SUBJECT INDEX

Volume 13-25, 1958-1965

Α

ACTH	Soo	Corticotrophin
ACID.	see	Corneonini

AHR602. See 3-Acetoxy-1-benzyl-1-methylpyrrolidinium ALD 52. See Lysergide, acetyl derivative of

217-AO. See Diethyl dimethylaminothioethyl phosphate

AT 3. See Ethylfluoren-9-yl(2-iodoethyl)amine Accommodation, paralysis by atropine, hyoscine and its

methobromide, methanthelinium, oxyphenonium and propantheline, in man, 13, 187, 190 Acepromazine (acetylpromazine):

antiadrenaline action of, and relation to antitetanus action, 25, 566

 antitetanus action of, and effect of chlorpromazine on, 16, 297

antitetanus action in experimental local tetanus. **13**, 335

, antitetanus and other central and peripheral actions of, 17, 507

-, effect on antitetanus action of chlorpromazine, mephenesin and thiopentone, 16, 300

-, effect on arousal threshold, and action of amphetamine, atropine and physostigmine, in cat, 14, 343

, effect on response of blood pressure to adrenaline, in rabbit, 25, 567

-, effect on response of blood pressure to adrenaline and noradrenaline, in spinal cat, 25, 572

7-Acetamido-2-m-amidinophenyldiazoamino-10-ethyl-9phenylphenanthridinium, trypanocidal action and toxicity of, 17, 396

7-Acetamido-2-m-amidinophenyldiazoamino-10-methyl-9-phenylphenanthridinium, trypanocidal action and toxicity of, **17**, 396

p-Acetamido - N-(5-p-aminophenoxypentyl) benzamide, schistosomicidal action, retinotoxicity and toxicity of, **14**, 468

p-Acetamidobenzoic acid, effect on trypanocidal action of butarsen, 14, 434

3-Acetamido-4-carboxyphenylarsenoxide, trypanocidal action of, effect of p-aminobenzoic acid on, 14,

trypanocidal action on normal and drug-resistant trypanosomes and toxicity of, in mouse, 14, 425

6-Acetamido-5-chloro-2-ethylthiobenzothiazole, amoebicidal and antitubercular actions of, 17, 294 6-Acetamido-5-chloro-2-mercaptobenzothiazole, amoebi-

cidal and antitubercular actions of, 17, 294

6 - Acetamido - 5 - chloro - 2 - methylthiobenzothiazole, amoebicidal and antitubercular actions of, 17, 294

2-Acetamido-5-chloro-6-nitrobenzothiazole, amoebicidal and antitubercular actions of, 17, 294

3-Acetamidocoumarans, synthesis of, 23, 502

3-Acetamido-4-hydroxy-ω-isopropylaminoacetophenone, in-ovo and in-vitro effect on influenza virus, 13, 408

3-Acetamido-4-hydroxy- ω -methylaminoacetophenone, in-ovo effect on influenza virus, 13, 406

3-Acetamido-4-hydroxy- ω -t-butylaminoacetophenone, in-ovo effect on influenza virus, 13, 406

4-Acetamido-2-morpholino-1,3,5-triazine, [14C]-labelled, synthesis of, 24, 274

4-Acetamido-2-morpholino-1,3,5-triazine (cont.)

-, oral, distribution in body fluids and tissues, in experimental virus infections, in mouse, 24, 274

1 - p - Acetamidophenoxy - 5 - p' - aminophenoxypentane, schistosomicidal and retinotoxic actions and toxicity of, 13, 241

N-(5-p-Acetamidophenoxypentyl)benzamide, effect on schistosomes and vision and toxicity of, 14, 468

2-p-Acetamidostyryl-6-dimethylaminoquinoline methochloride. See Styryl 314

Acetanilide, effect on bronchoconstrictor action of bradykinin, 15, 601

Acetazolamide, diuretic action of, effect of aminoisometradine, chlorothiazide, mersalyl and saline loading on, in rat, 14, 368

, effect on apomorphine-induced pecking, in pigeon, 15, 287

-, effect on distribution and hypotensive action of pempidine, in man, 17, 495

, response of respiration to, in man, 22, 232

Acetic acid, intraperitoneal, capillary permeability and squirming responses to, effect of anti-inflammatory corticosteroids, central nervous stimulants and narcotic and non-narcotic analgesics on, in mouse, 22, 249

-, squirming response to, effect of stilboestrol on, in mouse, 22, 248

Acetocholinesterase. See Cholinesterases, true

7-Acetonyl-1,3-dimethyl-6-thioxanthine, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, 17, 201

Acetophenone, derivatives of, in-ovo effect on influenza virus, 13, 404

3-Acetoxy-1-benzyl-1-methylpyrrolidinium, effect on ganglionic release of catechol amines, 22, 199

, response of blood pressure to, effect of atropine on, in rat, 23, 36

-, effect of cocaine on, in rat, 23, 37

, effect of hexamethonium on, and action of atropine and cocaine, in rat, 23, 36

-, effect of nicotine on, in rat, 23, 38 -, effect of P-286 on, in rat, 23, 38

1-Acetoxy-2,3- and -2,4-di(acetylthio) butane, effect on Mycobacterium tuberculosis, 15, 485

2-Acetoxy-1,4- and -3,4-di(acetylthio)butane, effect on Mycobacterium tuberculosis, 15, 485 2-Acetoxy-1,6-di(acetylthio)hexane, effect on Mycobac-

terium tuberculosis, 15, 485 a-Acetoxy-aa-di(acetylthiomethyl)acetic acid, effect on

Mycobacterium tuberculosis, 15, 485 2-Acetoxy-1,3-di(acetylthio)-2-methylpropane, effect on

Mycobacterium tuberculosis, 15, 485

2-Acetoxy-1,3-di(acetylthio)propane, effect on Mycobacterium tuberculosis, 15, 485

1-Acetoxy-2,11-di(acetylthio)undecane, effect on Mycobacterium tuberculosis, 15, 485 N-2-Acetoxyethyl-aa-dichloro-N-p-ethylsulphonyl-

benzylacetamide, amoebicidal action of, 18, 131

N-2-Acetoxyethyl- $\alpha\alpha$ -dichloro-N-p-methylsulphonylbenzylacetamide, amoebicidal action of, 18, 131

- 4-Acetoxy-4-o-methoxyphenyl-3-methyl-1-phenethylpiperidine, analgesic and lenticular-opacity-producing actions of, 17, 434
- 2-Acetoxy-3-methylbenzoic acid, extraction from urine, 25, 471 determination and
- -, in plasma after oral administration, in man, 25, 474 -, urinary excretion of, after oral administration, in man, 25, 470
- 4-Acetoxy-3-methyl-1-phenethyl-4-tolylpiperidines, analgesic and lenticular-opacity-producing actions of, 17,
- 4-Acetoxy-1-phenethyl-4-phenylpiperidine, analgesic and lenticular-opacity-producing actions of, 17, 434
- 2-Acetoxypropane-1,3-dithiol, effect on Mycobacterium tuberculosis, 15, 485
- Acetoxythymoxyethyldimethylamine. See Thymoxamine 2-Acetoxy-1,3,4-tri(acetylthio)butane, effect on Mycobacterium tuberculosis, 15, 485 N-Acetyl-p-aminophenol. See Paracetamol
- 2-Acetyl-4-butyrylphloroglucinol, anthelmintic action
- and synthesis of, 24, 714

 Acetylcholine, absence from Ranunculus sceleratus extracts, 25, 744
- -, action at superior cervical ganglion, effect of methylpentynol and its carbamate on, 14, 304
- -, anticurare action of, 14, 459
- -, effect of benzoquinonium on, 13, 527 , bioassay of, in bath fluid containing 5-hydroxy-
- tryptamine, 24, 690
- -, on isolated intact trachea, 19, 291 -, bioassay and identification of, 22, 418
- biosynthesis of, effect of triethylcholine on, 25, 228 , biosynthesis by atrium, and effect of acetylcholine, co-enzyme A concentration and temperature on, 14,
- 494 biosynthesis by brain, effect of chlorpromazine on,
- , bronchoconstrictor action of, effect of acetylsalicylic acid and atropine on, 15, 605
- , effect of atropine on, 14, 52 , —, and effect of atropine, diphenhydramine, lysergide (lysergic acid diethylamide) and mepyramine
- on, in guinea-pig, 15, 561 , effect of flufenamic and mefenamic acids on, **20**, 347
- -, depolarizing action of, effect of amylobarbitone, atropine, benactyzine, bretylium, hexamethonium, mephenesin, methylpentynol and its carbamate, paraldehyde, procaine and tetraethylammonium on, in rat, 24, 94
- depolarizing action at autonomic ganglia, and effect of anticholinesterases on, 18, 575
- , depolarizing action on striated muscle, effect of chlorpromazine on, and action of neostigmine, 15, 92 , depolarizing and ganglion-blocking actions of, 18, 583; 24, 89
- depolarizing and hyperpolarizing actions on ganglion cells, and effect of paraldehyde on, 14, 282 depressant action on idioventricular rhythm, and effect of atropine and physostigmine on, 13, 415
- -, detection in blood, 23, 369 , effect on acid gastric secretion, and action of neostigmine, in rat, 13, 57
- -, effect on aconitine-induced atrial flutter, 21, 370 -, effect on action of phenoxybenzamine on response of aorta to ergotamine, 19, 125
- , effect on adrenaline-, atropine- and pentoliniuminduced block of milk ejection, in lactating rat, 17, 299

- Acetylcholine (cont.)
 - , effect on blocking action of 5-hydroxytryptamine on peristaltic reflex, 13, 451
- , effect on blood-glucose, action of halothane and P-286, 20, 590
- -, effect on carotid sinus reflexes, 13, 257
- , effect on choline acetylase in cold-arrested atrium, 14, 494
- , effect on ciliary movement, 14, 324
- effect on corticosterone and free fatty acids in plasma, in anaesthetized rat, 25, 552
- , effect on depolarization rate of quinidine-treated
- r, effect on dorsal-root potentials in spinal cord, 17, 225
- -, effect on electrical properties and excitatory mechanism of normal and quinidine-arrested atrium, , effect on ganglionic release of catechol amines, 22, 199
- effect on ionic content of small intestine, 24, 437
- -, effect on neuromuscular blocking action of benzoquinonium, 13, 523; 14, 460
- , action of edrophonium, ethyl pyrophosphate, neostigmine and physostigmine (eserine), 13, 528
- , effect on peristalsis, in small intestine from normal rat, 23, 22
- -, in small intestine from tryptophan-deficient rat, 23, 24
- , effect on pilomotor action of adrenaline, noradrenaline and sympathetic stimulation, in cat, 15, 61 effect on respiration of excised lamellibranch gill,
- 17, 281 -, effect on response of auricular beat to aconitine, 15, 452
- effect on response of auricular beat to noradrenaline, 14, 375
- effect on response of auricular beat to sympathetic stimulation, and action of atropine, 14, 375
- effect on response of blood pressure, urinary catechol-amine excretion and urine secretion to phenoxybenzamine, 14, 145
- , effect on response of cardiac nerve-pulmonary artery preparation to electrical stimulation, 22, 177
- effect on response of denervated striated muscle to adrenaline, 24, 106
- effect on response of hypogastric nerve-vas deferens preparation to electrical stimulation, and action of atropine, dexamphetamine, levamfetamine, pheniprazine, pyrogallol, reserpine and tranyleypromine, **24**, 642
- -, effect on response of panniculus carnosus-skin preparation to transmural stimulation, 21, 334, 336 effect on response of perfused ear to noradrenaline and sympathetic stimulation, in rabbit, 15, 61
- effect on response of small intestine to histamine, and action of atropine and cocaine, 13, 17
- , effect on response of striated muscle to acetyl-choline, choline and decamethonium, 15, 24
- , effect on response of striated muscle to choline and decamethonium, action of anticholinesterases, 15,
- effect on response of uterus to acetylcholine, 5-hydroxytryptamine and its analogues, and tryptamine, 14, 267
- , effect on spontaneous activity and reflex responses of spinal cord, 19, 537
- , effect on sympathetic ganglionic transmission, action of substance P, in cat, 15, 11

Acetylcholine (cont.)

, postganglionic response of superior cervical

tion to, and effect of neostigmine on, 15, 411

agents on, in atropinized dog, 24, 449

, response of blood pressure to, effect of adrenal ectomy and sympathetic α - and β -receptor-blocking

Acetylcholine (cont.)

, effect of high concentrations on action of phenoxy-

-, pain-producing action of, in man, 14, 532

and effect of anticholinesterases on, 13, 164

, persistence in fluid perfusing cerebral ventricles,

-, pecking induced by, in pigeon, 17, 9

ganglion to, effect of neostigmine on, and action of benzamine on response of small intestine to dexamphetamine and 5-hydroxytryptamine, 21, 430 atropine and tubocurarine, 20, 217 effect of high concentrations on action of phenoxy-, quaternary ammonium compounds related to, benzamine on response of splenic muscle to acetylaffinity and efficacy of, relation to chemical structure, choline, adrenaline, histamine and 5-hydroxytrypt-**21**, 509 amine, 19, 429 reactivation of sarin-inactivated cholinesterase by. -, in-vitro enzymic hydrolysis of, 13, 104, 313 **13**, 293 -, ganglion potentials and block produced by, and , release by cerebral ventricles following antieffect of atropine and hexamethonium on, 23, cholinesterase injection, 13, 165 , release by diaphragm, effect of decamethylenebisganglion-stimulant action of, effect of central (2-hydroxyethyldimethylammonium) on, and action depressants, procainamide and tetraethylammonium of choline, 25, 398 , release by ganglia, and effect of carbon-dioxide on, 23, 258 -, effect of centrally active agents and other tension, choline, pH and physostigmine on, in cat, drugs on, 23, 262 **21**, 244 -, in brain, effect of corticotrophin (adrenocortico--, effect of methylpentynol and its carbamate on, 14, 305 trophic hormone), cortisone and triamcinolone on, in rat, 19, 229 -, effect of pempidine on, 13, 341 , effect of procainamide on, 22, 146 -, effect of anaesthetics on, in dog, 24, 348 -, —, effect of atropine, benactyzine and hyoscine (scopolamine) on, in rat, 19, 231
-, —, effect of atropine and its methonitrate, , release by ganglia and neuromuscular junctions, effect of central nervous depressants, hexamethonium, procaine and tetraethylammonium on, 22, homatropine and hyoscine on, in rat, 23, 123 415 -, effect of γ -butyrolactone on, 20, 564 -, release by motor-nerve endings, 15, 417 -, effect of 3,5-dimethylbutylethylbarbituric acid, leptazol (pentylenetetrazole) and lysergide (lysergic acid diethylamide) on, in rat, 19, 230 -, effect of chlorpromazine on, 15, 92 -, release by phrenic nerve-diaphragm preparation, effect of triethylcholine on, and action of choline, , effect of ethyl pyrophosphate (tetraethylpyrophosphate), hydroxydione, methylpentynol, mor-, release by small intestine, and effect of botulinum phine, pentobarbitone and phencyclidine (phenyl-cyclohexylpiperidine) on, in rat, 19, 226 toxin, cooling, local anaesthetics and papaverine on, 19, 42 -, effect on hemicholinium on, in rat, 19, 232 , effect of calcium-lack on, and action of effect of iproniazid on, and action of dopa replacement with strontium, 21, 558 and 5-hydroxytryptophan, in rat, 19, 230 -, effect of cocaine, cooling, magnesium-excess, , effect of JB 330, JB 336, JB 8035 and JB 8099 procaine and rest on, 21, 557 , effect of dimethylphenylpiperazinium and on, in rat, 23, 127 -, effect of pentobarbitone on, and action of 5-hydroxytryptamine on, 24, 689 atropine, in rat, 19, 231 -, effect of diphenylylbutylacetic acid on, 13, , effect of reserpine on, and action of ambient temperature, in rat, 19, 228
-, in brain, heart and small intestine, effect of , effect of hemicholinium on, and action of choline, 21, 562 ganglionic blockade and vagotomy on, and action -, origin of, 21, 555 , release by spinal cord, and effect of stimulation of of reserpine, in dog, 24, 119 -, in central nervous system, and effect of reserpine dorsal and ventral roots and whole hemicord on, 19, on, in dog, 14, 46 537 -, in central nervous tissue extracts, 25, 299 , release by sympathetic nerves, effect of stimulus -, in heart, hypothalamus and small intestine, effect frequency on, 21, 97 of reserpine on, in dog, 18, 190; 21, 355 -, in splenic extracts, 14, 396 -, release by trachea and tracheal muscle preparation during rest and transmural stimulation, 22, 127 , in urinary bladder, and effect of electrical stimula-, release and synthesis by small intestine, effect of tion on, 24, 183 gluten fractions on, 15, 575 -, induction of atrial fibrillation by, effect of adiresponse of amnion to, and effect of atropine on, phenine (*Trasentin*), amethocaine, atropine and quinidine on, 13, 107 21, 286 response of atropinized atrium to, and effect of , intradermal, effect on behaviour, in guinea-pig, 21, bretylium and xylocholine (choline 2,6-xylyl ether) on, **15**, 119 , intraventricular, response of outflow from perfused , response of atropinized perfused ear to, and effect cerebral ventricles to, 13, 164 of bretylium and xylocholine (choline 2,6-xylyl ether) , in-vitro metabolism of pentobarbitone by liver on, 15, 63, 120 slices from rat pretreated with, 18, 37 , response of auricular beat to, effect of anti--, milk-ejecting action of, 19, 174 adrenaline agents on, 20, 530 , neuromuscular blocking action of, effect of guanidine and its derivatives on, 19, 416 , response of biventer cervicis nerve-muscle prepara-

etylcholine, response of blood pressure to (cont.) -,, effect of amitriptyline, chlorpromazine, chlor-	Acetylcholine (cont.) ——, response of circular and longitudinal strips from
prothixene, desmethylimipramine, desmethylpromazine, imipramine and promazine on, 23, 342	ileum to, and effect of hyoscine and morphine on 21, 552
-,, effect of analgesic-antipyretic drugs on, in	——, ——, and effect of mipafox on, 21, 544
dog, 17, 110 -, —, effect of atropine, 1-benzyl-5-methoxy-2-	—, response of cold-arrested heart to, 13, 416 —, response of cold- and quinidine-arrested ventricl
methyltryptamine, dichloroisoprenaline [1-(3,4-di-	to, 13, 306 —, response of denervated diaphragm to, effect of
chlorophenyl)-2-isopropylaminoethanol], dihydro- ergotamine and lysergide (lysergic acid diethylamide)	temperature and tubocurarine on, 15, 347
on, in rat, 15, 135	—, response of denervated gastrocnemius muscl
-, ——, effect of atropine and phenoxybenzamine on, 22 , 262	preparation to, 14, 509 ——, response of denervated nictitating membrane to
-,, effect of bradykinin-potentiating factor from	effect of bretylium on, in adrenalectomized an
venom of <i>Bothrops</i> spp. on, 24, 167 -, ——, effect of bretylium on, 14, 543	atropinized cat, 14, 541 —, response of denervated striated muscle to, an
-,,, in adrenalectomized and atropinized	effect of neuromuscular blocking agents on, 24, 10
cat, 14, 542 -,, effect of cloxacillin on, 21, 342	106 ——, and effect of tripelennamine and tubocuraring
-,, effect of desmethylimipramine on, 23, 340	on, 25 , 611, 612, 617
-,, effect of dioscine and dioscornine on, 13, 214	, response of goldfish intestine to, and effect of
-, ——, effect of halothane on, mechanism of, 20, 586 -, ——, effect of hemicholinium on, in rabbit, 25, 530	atropine and hyoscine on, 17, 456 —, response of heart beat to, effect of ambient ten
-,, effect of isoprenaline on, in cat, 21, 381	perature on, 25 , 122
-,, effect of M&B 4348A on, 15, 213 -,, effect of mecamylamine and pempidine and	,, effect of bretylium and xylocholine (<i>cholin</i> 2,6-xylyl ether) on, 15 , 63
its N ethyl homologue on, in atropinized cat, 13, 509	,, and effect of caprylate, hydrogen peroxid
-,, effect of methicillin on, in cat, 17, 74 -,, effect of methoxamine on, 24, 371	ouabain, oleate, paullinia tannin and tannic acid of 21 , 79
-,, effect of inethoxamme on, 24, 371 -,, effect of oxolamine on, 16, 214	—, —, effect of decamethonium on, in cat, 18, 19
-,, effect of pempidine on, 13, 342	——, effect of dioscine and dioscornine on, 13, 2
-,, in atropinized spinal cat, 15, 218 -,, effect of 3-phenoxypropylguanidine on, 18,	——, ——, effect of halothane on, 20 , 589 ——, ——, effect of P-286 on, 20 , 581
483	,, effect of paullinia tannin on, 18, 169,, effect of procainamide on, 22, 152
-,, effect of procainamide on, 22, 145 -,, effect of pronethalol on, 23, 594	—, effect of procainamide on, 22, 152 —, response of heart beat of isolated preparation
-, —, effect of substituted 1,3,4-thiadiazoles on, 13,	from normal and thiamine-deficient rats, 20, 195
361	—, response of human bronchus to, 23, 207 —, response of human taenia coli preparation to, as
-, ——, effect of thalidomide on, in cat, 15, 114 -, response of blood pressure and blood vessels to,	effect of hexamethonium, hyoscine and physosti
effect of P-286 on, and action of dichloroisoprenaline	mine on, 23, 165
and reserpine, in atropinized dog, 20, 579 -, response of blood pressure and renal volume to,	——, effect of mepyramine and procaine on, 2
15 , 548	, response of hypogastric nerve-vas deferens pr
-, response of blood pressure and urinary bladder to, and effect of atropine and physostigmine on, in rat,	paration to, effect of angiotensin on, 22, 213 —, effect of atropine and bethanidine on, 20,
24, 591	——, ——, effect of atropine and physostigmine on, 2
-, response of blood pressure, urinary catechol-amine	78 ——, effect of bretylium on, 23 , 602
excretion and urine secretion to, and effect of phenoxybenzamine on, 14, 144	——, ——, effect of hemicholinium on, 15, 590
-, response of blood vessels to, and effect of atropine,	——, ——, and effect of isoprenaline, phentolamine as
guanethidine, physostigmine (eserine) and reserpine on, in rabbit, 19, 515	pronethalol on, 24, 200 —, response of ileo-colic sphincter to, effect of atropi
-,, and effect of degeneration of pre-ganglionic	on, and action of bretylium, ephedrine and hex
sympathetic nerves on, 19, 521 -, ——, effect of dichloroisoprenaline on, in man, 19,	methonium, 18, 402 —, response of intestine to, effect of 5-hydroxytryp
241	amine, phenyldiguanide and veratrine on, 13, 445
-, —, effect of P-286 on, in atropinized dog, 20, 580	—, response of large intestine to, 19, 343; 24, 161
-, response of bronchial muscle and trachea to, 19, 195	——, and effect of adrenergic- and ganglion-bloc ing agents, cholinergic agents and reserpine on, 2
-, response of cardiac muscle to, 14, 396	157
-, response of cardiovascular system to, effect of benzethidine, furethidine and pethidine on, 15, 256	—, —, effect of hyoscine on, 23, 355 —, response of large and small intestine to, effect
-, response of circular strip from ileum in presence	staphylococcal a-toxin on, and action of anti-
of anticholinesterase to, and effect of atropine,	toxin, 25, 782 —, response of large and small intestine and stoma
botulinum toxin, desensitization to histamine and 5-hydroxytryptamine, dimethylphenylpiperazinium,	strip to, 23, 352
hemicholinium, hexamethonium, hyoscine, mepyr-	, response of leech dorsal muscle to, effect of dyflo
amine, morphine and procaine on, 20, 399	neostigmine and physostigmine (eserine) on, 13, 1

Acetulabeline meanure of leach densel muscle to (cout)	Acetylaholine resmance of small intestine to (sent)
Acetylcholine, response of leech dorsal muscle to (cont.) —, —, effect of 5-hydroxytryptamine and lysergide	Acetylcholine, response of small intestine to (cont.) ——, ——, effect of atropine, poldine and propantheline
(lysergic acid diethylamide) on, 16, 258	on, 17 , 46
, response of longitudinal strip from ileum to, 20, 411	,, effect of atropine, pralidoxime and 1,1'-tri-
—, response of lung to, and effect of atropine on, 19,	methylenebis(4-hydroxyiminomethylpyridinium) on,
194 in vitua response of mammary gland to 10 120	18, 292 —, effect of atropine and physostigmine (eserine)
—, in-vitro response of mammary gland to, 19, 129 —, response of mammary strips to, effect of thio-	on, 15, 225
glycollate on, 25, 425	, and effect of atropine and thenalidine on, 15,
, response of molluscan smooth muscle to, effect of	546
adrenaline, dibenamine, noradrenaline, phentol-	—, —, effect of bath-calcium concentration on, 22,
amine and tyramine on, 14, 405	544; 24, 437
—, —, effect of atropine, benzoquinonium, decamethonium, methanthelinium, nicotine, pentameth-	——, effect of benzethidine, furethidine and pethidine on, 15 , 257
onium, tetraethylammonium and tubocurarine on,	—, —, effect of bethanidine on, 20 , 46, 48
14, 405	—, —, effect of bis-quaternary tropeines on, 15, 76
—, —, and effect of nicotine on, 14 , 404	—, —, effect of bradykinin-potentiating factor from
, response of morphine-treated small intestine to,	venom of Bothrops spp. on, 24, 167
effect of 5-hydroxytryptamine analogues on, 14, 556	,, effect of bretylium on, 14, 544; 22, 550,, effect of bretylium and hexamethonium on
—, response of nictitating membrane to, effect of atropine and physostigmine on, 22, 564	17, 83
——, effect of 3α-O-benzoyl-N-p-cyclohexylbenzyl-	, effect of bromolysergic acid diethylamide
tropinium, hexamethonium, hyoscine and phentol-	dimethylphenylpiperazinium, hexamethonium, 5-
amine on, 21 , 18	hydroxytryptamine, hyoscine, lysergide (lysergic acid
—, —, effect of hexamethonium and procainamide	diethylamide), mecamylamine, nicotine, pempidine
on, 22, 147	pentolinium, phenoxybenzamine and procaine on
—, —, effect of physostigmine on, 20, 84 —, —, effect of substance P on, in cat, 15, 12	21, 308 —— effect of carbon dioxide and pH on 14, 22
-, response of partially curarized striated muscle to,	—, —, effect of carbon dioxide and pH on, 14, 22 —, effect of carboxypeptidase, proteose-peptone
effect of ambenonium, edrophonium, methoxy-	pseudoglobulin and thrombin on, 22, 376
ambenonium and neostigmine on, 20, 66	, effect of chloral hydrate, chloralose, physo-
—, response of phrenic nerve-diaphragm preparation	stigmine (eserine) and trichloroethanol on, 19, 116
to, and effect of decamethonium, triethylammonium and tubocurarine on, 19, 200	—, —, effect of chloroform, ether, halothane methoxyflurane and trichloroethylene on, 25, 104
, response of phrenic nerve-diaphragm and tibialis	, effect of choline 3-isobutyl-1-methyl-6-thio
anterior preparations to, effect of tetraethyl-	xanthinate, theophyllinate and 6-thiotheophyllinate
ammonium and triethylcholine on, 19, 209	on, 16 , 66
—, —, and action of choline, 19, 213	—, —, effect of chymotrypsin, chymotrypsinoger
—, response of pulmonary artery to, effect of atropine, physostigmine and reserpine on, 22, 177	and trypsin on, 22, 373 ———————————————————————————————————
—, effect of bretylium and yohimbine on, 22, 178	——, effect of cinchonidine on, 14, 55 ——, effect of <i>N-p</i> -cyclohexylbenzyltropinium deri
, response of rectal caecum to, and effect of atropine,	vatives on. 21, 21
hyoscine and various antagonists on, 17, 147	—, —, effect of decamethonium on, in cat, 18, 200—, —, effect of dibenamine on, 25, 10
, response of respiration to, 15, 547	, effect of dibenamine on, 25, 10
—, response of sarin-treated striated muscle to, and effect of pralidoxime (pyridine-2-aldoxime meth-	—, effect of dioscine and dioscornine on, 13, 21. —, effect of diphenhydramine and mepyramine
iodide) on, 13, 291	on, 25, 300
—, response of sciatic nerve-muscle preparation to.	—, effect of ethyl alcohol, methylpentynol and
effect of choline, hemicholinium and triethylcholine	its carbamate, and pentobarbitone on, 14, 289
on, 17, 185, 188, 189	—, effect of gadolinium and samarium chloride
, response of sciatic nerve-tibialis anterior preparation to, effect of decamethylenebis(2-hydroxyethyl-	on, 17, 530 effect of Gluta ranghas extracts on 15, 441
dimethylammonium) on, 25, 395	—, effect of Gluta renghas extracts on, 15, 441 —, effect of gluten fractions on, 15, 574
—, —, effect of hemicholinium on, 22, 445	—, effect of human-tissue extracts on, 21, 423
—, response of semispinalis muscle to, 15, 413	—, —, effect of Hydergine, piperoxan and yohimbin
, response of small intestine to, 14, 127; 21, 513	on, 24, 678
—, —, effect of aliphatic amino-alcohols, anti- parkinsonian agents, atropine, and tertiary and	—, effect of hyoscine on, and action of phenoxy benzamine, 20 , 150
quaternary tropine derivatives on, 14, 560	—, —, kinetic constants of, action of bath
$$, $$, effect of γ -aminobutyric acid, 4-hydroxy-	calcium concentration 24 432
butyrate and meprobamate on, 22, 325	, effect of hyoscyamine and morphine on, 13
, effect of anoxia, cooling, hexamethonium	
and 5-hydroxytryptamine on, 20, 150 —, effect of atropine on, 13, 18; 14, 53; 16, 26;	—, —, effect of lysergide (lysergic acid diethylamide and morphine on, 14, 554
25, 298	—, effect of M&B 4086 on, 15, 209
,, effect of atropine, BW 284C51 and botulinum	—, —, effect of M&B 4086 on, 15, 209 —, —, effect of M&B 4348A on, 15, 213 —, —, effect of mecamylamine and pempidine and
toxin on, 19, 6	, effect of mecamylamine and pempidine and
, and effect of atropine and mepyramine on, 14, 396	its N-ethyl homologue on, 13, 511 —, effect of melatonin on, 24, 459
± Tg J7U	——, enect of inclatoffill off, 24, 439

Acetylcholine, response of small intestine to (cont.) —, —, effect of methanthelinium on, 25, 541	Acetylcholine (cont.) —, response of sterno-trachealis preparation to, 18,
——, effect of methotrimeprazine on. 13, 68	614
—, —, effect of mipafox on, and action of hyoscine,	—, response of stomach to, 25 , 299
21, 308 effect of morphine on 15 425: 22 53	—, and effect of atropine and pH on, 25, 302—, response of stomach strip to, effect of analogues of
—, —, effect of morphine on, 15, 425; 22, 53 —, —, effect of nicotine on, 13, 345	5-hydroxytryptamine and tryptamine, and 2-bromo-
,, effect of nitroparaffins and other nitro-	lysergic acid diethylamide on, 14, 270
compounds on, and action of morphine, 18, 382	—, —, effect of blood on, 23, 362 —, —, effect of catechol amines on, 22, 206
, effect of oxolamine and papaverine on, 16,	—, effect of catechol annues on, 22, 200 —, —, effect of phenoxybenzamine on, and action
——, ——, effect of papain on, 24 , 491	of high concentrations of dexamphetamine and
—, —, effect of papaverine and pethidine on, 14, 63,	5-hydroxytryptamine, 21, 429
64	—, response of striated muscle to, 14, 457 —, effect of acetylcholine, choline and deca-
—, —, effect of pempidine on, 13, 344 —, —, effect of phenoxybenzamine on, and action	methonium on, 15, 24
of anoxia and methysergide, 20, 150	,, effect of ambenonium, edrophonium, meth-
——, ——, and action of high concentrations of	oxyambenonium and neostigmine on, 20, 64
adrenaline, dexamphetamine and 5-hydroxytrypt-amine, 21, 430	—, —, effect of ambenonium and methoxyamben- onium on, 15, 480
, effect of (+)- and (-)-N-(1-phenylethyl)-	—, —, effect of benzoquinonium, decamethonium
guanidine on, 24 , 404	and tubocurarine on, 13, 523
—, —, effect of 4-picolylamine on, 19, 545 —, —, effect of polymethylenebis(triethylammon-	—, —, effect of bis-quaternary tropeines on, 15, 76 —, —, effect of bretylium and guanethidine on, 17,
ium) compounds on, 23, 144	377
—, —, effect of potassium-ion concentration on, 14,	,, effect of chloral hydrate, physostigmine
361 offset of prelidering and other puridinium	(eserine) and trichloroethanol on, 19, 117
——, effect of pralidoxime and other pyridinium aldoximes on, 14 , 198	, effect of chlorpromazine and tubocurarine on, and action of neostigmine and physostigmine
—, effect of primary alcohols on, 15, 189 —, —, effect of procainamide on, 22, 151	(eserine), 15 , 91
—, —, effect of procainamide on, 22, 151	, effect of choline, edrophonium and physo-
, effect of Prymnesium parvum toxin on, 22,	stigmine on, 14, 460 effect of decamethonium and sarin on, 15, 24
—, —, and effect of related quaternary ammonium	—, —, effect of decamethonium and sarin on, 15, 24 —, —, effect of denervation, re-innervation and
compounds on, 21 , 512	repeated administration of acetylcholine on, 14, 234
,, effect of replacing chloride in bath fluid by ethanesulphonate on, 14, 361	—, effect of dihydrostreptomycin and streptomycin on, 15, 508
—, —, effect of serpentine on, 16 , 149	—, effect of ethyl pyrophosphate, neostigmine,
—, —, effect of serpentine on, 16, 149 —, —, effect of staphylococcal β -haemolysin on, 17,	physostigmine and tacrine on, 25, 180, 183
161 effect of stankylososcal a toyin on 14 61	—, effect of hemicholinium and triethylcholine
—, effect of staphylococcal α-toxin on, 14, 61 —, effect of substituted 1,3,4-thiadiazoles on,	on, 17, 190 —, effect of Hydergine, piperoxan and yohimbine
13 , 361	on, 24 , 676
,, effect of thalidomide on, 15, 114	—, —, effect of laudexium and tubocurarine on, 14,
, response of smooth muscle to, effect of adrenergic blocking agents on, 20, 421	160 —, —, effect of M&B 4348A on, 15, 213
—, and effect of atropine and physostigmine on,	, effect of methylpentynol and its carbamate
18, 551	on, 14, 292
, effect of Colisan on, 15, 314	—, —, effect of pempidine on, 13, 345 —, —, effect of physostigmine (eserine) and pyridine
—, —, effect of hypoglycin-A on, 13, 129 —, —, membrane-potential changes associated with	aldoxime methiodides on, 13, 289
tachyphylaxis and potentiation of, 15, 611	—, —, effect of replacing chloride in bath fluid by
—, response of splenic muscle to, and effect of bromolysergic acid diethylamide and dihydroergotamine	ethanesulphonate on, 14, 360 ———, and effect of sarin and tubocurarine on, 15,
on, 19, 431	27
, effect of phenoxybenzamine on, and action	—, effect of scorpion venom on, 14, 335 —, effect of tubocurarine on, and action of
of cocaine and 5-hydroxytryptamine or tyramine, 19, 435	, effect of tubocurarine on, and action of choline, edrophonium and physostigmine, 14, 460
—, —, and action of high concentrations of	—, response of superior cervical ganglion to, effect of
acetylcholine, adrenaline, histamine, 5-hydroxytrypt-	chloral hydrate, chloralose, physostigmine (eserine)
amine and tyramine, 19, 429 —, response of splenic muscle desensitized to 5-	and trichloroethanol on, 19, 113 —, response of sympathetic nerve-intestinal segment
hydroxytryptamine to, 19, 430	preparation to, effect of guanethidine on, 17, 249
, response of splenic muscle from reserpine treated	—, response of <i>Tapes</i> heart to, and effect of adiphenine
animals to, effect of phenoxybenzamine on, and action of high concentrations of 5-hydroxytrypt-	(Trasentin), atropine, benactyzine, benzoquinonium,
amine and tyramine, 19, 435	caramiphen, decamethonium, dihydro- β -erythroidine, gallamine triethiodide, hexamethonium, hyo-
, response of splenic volume to, in reserpinized cat,	scine, mecamylamine, procyclidine and tubocurarine
15 , 58	on, 25 , 486
В	

Acetylcholine, response of Tapes heart to (cont.) -, and effect of benzoquinonium, neostigmine and physostigmine on, 25, 484 -, response of *Tapes* rectum to, **25**, 492 -, response of terminal tract of bile duct to, and effect of dichloroisoprenaline on, 20, 228 -, response of tibialis anterior preparation to, effect of acetyltriethylcholine on, 19, 213 , and effect of decamethonium, triethylcholine and tubocurarine on, 19, 199 , and effect of neostigmine and triethylcholine on, 19, 208 -, effect of proadifen (2-diethylaminoethyl 3,3diphenylpropylacetate) on, 18, 565 -, response of tortoise intestine to, and effect of atropine, 5-hydroxytryptamine, mepyramine and promethazine on, 13, 114 response of trachea to, and effect of acetylsalicylate on, 23, 207 -, and effect of adrenaline and atropine on, 19, , response of tracheal chain to, effect of prostaglandin E_1 and F_{2n} on, 24, 473 , response of tracheal muscle to, effect of atropine, dyflos and hyoscine on, 21, 139 -, ---, effect of cooling and procaine on, 21, 142 -, effect of hemicholinium, calcium-lack and magnesium-excess on, 21, 143 -, effect of mipafox on, 21, 138 -, effect of prostaglandins on, 22, 512 -, response of tracheal ring to, and effect of atropine, 2-bromolysergic acid diethylamide and pH on, 13, -, response of tracheobronchial preparation to, 23, 207 response of trout gut to, and effect of adrenaline, atropine, hexamethonium and nicotine on, 13, 218 -, response of urinary bladder preparation to, and effect of adrenaline, atropine, hyoscine, nor-adrenaline and physostigmine on, 24, 179 -, effect of atropine, hexamethonium, isopropamide, physiological denervation and physostigmine on, 25, 289 -, response of uterus to, 14, 127, 267 -, effect of adrenaline and isoprenaline on, action of bretylium, 16, 333 -, effect of adrenaline and noradrenaline on. action of cocaine, guanethidine and phenoxybenzamine, 21, 364 , and effect of atropine and lysergide (lysergic acid diethylamide) on, 14, 397 effect of atropine, methysergide and phenoxybenzamine on, 25, 787 , effect of bethanidine on, 20, 48 -, effect of bretylium on, 16, 333 -, ---, effect of chymotrypsin on, 22, 377 -, effect of 5-hydroxytryptamine, lysergide (lysergic acid diethylamide) and plasma on, 15, 30 , effect of iproniazid, nialamide, phenelzine and tranylcypromine on, 25, 218 -, effect of ouabain on, 21, 229 —, effect of Prymnesium parvum toxin on, 22, 54 -, effect of thioglycollate on, 25, 406, 419 -, effect of tryptamine analogues on, 14, 103 -, response of vas deferens to, effect of anticholinesterases, isoprenaline and parasympathetic and sympathetic blocking agents on, 20, 300 -, effect of atropine, bretylium, dihydroergotamine, guanethidine, hyoscine and pentolinium on, 2-Acetyl-4-propionylphloroglucinol, anthelmintic action **21**, 576

Acetylcholine, response of vas deferens to (cont.) -, effect of ergotamine, phenoxybenzamine, piperoxan, tolazoline and yohimbine on, 15, 527 -, response of venous preparations to, and effect of atropine and hexamethonium on, 24, 746 , response of Venus mercanaria heart to, effect of cerebrospinal fluid on, 19, 298 , sialogenous action of, effect of denervation on, 13, 194; **15**, 357 -, potentiation by anticholinesterases, 13, 193 , subcellular localization in dog caudate nucleus, 21, 482 , in-vitro synthesis by brain homogenate, effect of decamethylenebis (2 - hydroxyethyldimethylammon ium) on, 25, 400 Acetylcholine antagonists. See Antiacetylcholine agents Acetylcholine-blocking action. See Antiacetylcholine Acetylcholine-blocking agents. See Antiacetylcholine agents Acetylcholine-like action, of decamethonium, 14, 405 -, of nicotine, and tetramethyl- and trimethyl(4oxopentyl)-ammonium salts, 14, 404 Acetylcholine-like substances, response of semispinalis muscle to, 15, 413 Acetylcholine-potentiating action, of pyridine aldoxime methiodides, 13, 289 Acetylcholinesterase, inhibition by neostigmine and triethylcholine, 19, 208 , inhibition by polymethylenebis(trialkylammonium) salts, 23, 144 3-Acetyldigitoxigenin, duration of cardiac action, excretion and lethal dose of, in guinea-pig, 14, 174 3-O-Acetyl-6,14-endo-etheno-5,7,8,8-tetrahydro- 7α -(2hydroxypent-2-yl)oripavine, analgesic action of, effect of nalorphine on, 22, 294 -, effect on skin temperature, 22, 296 , induction of lenticular opacity by, effect of nalorphine on, 22, 291 Acetylhistamine, urinary excretion of, and effect of aminoguanidine on, in male and female rats, 13, 499 3-Acetyl-4-hydroxycoumarin, anticoagulant action of, 20, 29 8-Acetyl-7-hydroxy-4-methylcoumarin, anticoagulant action of, 20, 29 1-Acetylindoxyl thiosemicarbazone, effect in experimental vaccinia infections, properties and synthesis of, **15**, 101 1-Acetylisatin β -thiosemicarbazone, antiviral action, properties and synthesis of, 15, 101 1-Acetyl-lysergic acid diethylamide, effect on response of molluscan heart to 5-hydroxytryptamine, 18, 446 —, response of molluscan heart to, 18, 440 N-Acetyl-5-methoxytryptamine. See Melatonin (+)- and (-)-Acetyl-a-methylcholine, response of blood pressure, nictitating membrane and striated muscle to, 25, 213 Acetyl-β-methylcholine. See Methacholine 3-(2-Acetyl-1-p-nitrophenylethyl)-4-hydroxycoumarin. See Nicoumalone 3-(2-Acetyl-1-p-nitrophenylethyl)-4-hydroxy-5,7-dimethoxycoumarin, anticoagulant action of, 20, 29 1-p-Acetylphenoxy-5-p'-aminophenoxypentane, schistosomicidal and retinotoxic actions and toxicity of, 13, Acetylphloroglucinol, anthelmintic action of, 24, 714 Acetylpromazine. See Acepromazine

and synthesis of, 24, 714

3-Acetylpropionylthiopropylene sulphide, antitubercular action and toxicity of, 15, 485

Acetylsalicylic acid (aspirin):

- -, analgesic action of, 16, 213
- -, ---, quantitative estimation of, 25, 81 -, anti-inflammatory action of, 18, 347
- -, anti-inflammatory and antipyretic actions of, 16, 215
- -, bronchoconstrictor action of, 15, 605
- -, effect in arthritis induced by mycobacterial

adjuvant, in rat, 21, 127

- -, effect in experimental moniliasis, 13, 4
- -, effect on action of bradykinin and histamine on capillary permeability, 15, 607
- -, effect on action of bradykinin and kallikrein on
- capillary permeability, in rabbit, 17, 112, effect on action of intradermal bradykinin on
- behaviour, in guinea-pig, 21, 160
- -, effect on bronchoconstrictor action of acetylcholine, antigen, bradykinin, histamine and 5hydroxytryptamine, 15, 601
- , effect on bronchoconstrictor action of angiotensin, bradykinin, kallidin-10 and substance P, in guineapig, 19, 191
- effect on bronchoconstrictor action of bradykinin,
- **19**, 194, 195
- , effect on bronchoconstrictor action of bradykinin, histamine and 5-hydroxytryptamine, 15, 294
- -, effect on bronchoconstrictor action of bradykinin and kallidin-10, 20, 347
- , effect on bronchoconstrictor action of bradykinin, prostaglandin and slow-reacting substance produced in anaphylaxis, 23, 206
- -, effect on bronchoconstrictor action of bradykinin and slow-reacting substance produced in anaphylaxis, 23, 208
- , effect on bronchoconstrictor action of eledoisin, 19,
- -, effect on bronchoconstrictor action of substance P, 23, 205
- , effect on bronchoconstrictor action of synthetic
- bradykinin, 15, 609 -, effect on capillary permeability and squirming responses to intraperitoneal acetic acid, in mouse, **22**, 246
- -, effect on cutaneous response to thurful nicotinate
- and ultraviolet light, in guinea-pig, 21, 106 -, effect on esterolytic activity and kinin-forming
- action of kallikreins, 20, 254 , effect on formaldehyde-induced inflammation, in
- mouse, 16, 165 effect on free fatty acids in plasma, in rat, 25,
- , effect on hyperthermic action and toxicity of
- amphetamine, in grouped mice, 19, 253 -, effect on kallikrein, 17, 107
- -, effect on response of blood pressure to acetyl-choline, bradykinin, histamine, 5-hydroxytryptamine, kallidin and kallikrein, in dog, 17, 110
- effect on response of blood pressure to bradykinin, **20**, 350
- effect on response of small intestine to bradykinin, histamine and vasopressin, 15, 607
- , effect on response of trachea to acetylcholine and slow-reacting substance produced in anaphylaxis, 23, 209
- -, effect on toe-pinch-induced pain, in guinea-pig, 17, 34
- -, in-vitro hydrolysis of, 25, 476

- Acetylsalicylic acid (cont.)
- , in-vitro metabolism of pentobarbitone by liver slices from rat pretreated with, 18, 37
- , urinary excretion of metabolites of, kinetics of, in man, 24, 418
- 5-Acetylthio-1-acetylthiomethylpentyl acetate, antitubercular action and toxicity of, 15, 485
- acetate. 2-Acetylthio-3-(2-acetylthiopropylthio)propyl antitubercular action and toxicity of, 15, 485
- 1-Acetylthio-3,4-epithiobutane, antitubercular action and toxicity of, 15, 485
- 3-Acetylthio-1,2-epithiobutane, antitubercular action and toxicity of, 15, 485
- 6-Acetylthio-1,2-epithiohexane, antitubercular action and toxicity of, 15, 485
- 5-Acetylthio-1,2-epithiopentane, antitubercular action and toxicity of, 15, 485
- 3-Acetylthio-2-methylpropylene sulphide, antitubercular action and toxicity of, 15, 485
- 1-Acetylthio-2-methylthioethane, effect on Mycobacterium tuberculosis, 15, 485
- 3-Acetylthiopropylene sulphide, antitubercular action and toxicity of, 15, 485, 496
- Acetyltriethylcholine, effect on response of tibialis anterior preparation to acetylcholine, 19, 213
- , response of tibialis anterior preparation to, 19, 213 Acetyltropeïne, and its derivatives, antiacetylcholine, antitremor, local anaesthetic and mydriatic actions and toxicity of, 14, 562
- N-Acetyltyrosine, effect on response of blood pressure to tyramine, in reserpinized rat, 15, 48
- 2-Acetyl-4-valerylphloroglucinol, anthelmintic action and synthesis of, 24, 714
- Acids, fatty. See Fatty acids
- Ackee. See Blighia sapida
- Aconitine, induction of atrial flutter and fibrillation by, mechanism of, and role of cholinergic factors in, 21,
- , response of auricular beat to, and effect of acetylcholine, atropine, hexamethonium, physostigmine and tetraethylammonium on, 15, 448
- Acorus oil, effect on action of reserpine on 5-hydroxytryptamine in brain, 20, 439
- , effect on sedative action of reserpine, 20, 438
- Acridine, derivatives of, trypanocidal action on normal and drug-resistant trypanosomes, in mouse, 14,
- Acridine orange, subcutaneous, effect on haemoglobin nitrite sensitivity reaction, 19, 492
- -, tissue staining by, 19, 495
- Acriflavine, in-vitro cesticidal action of, 15, 437
- , trypanocidal action of, effect of p-aminobenzoic acid on, 14, 436
 - , trypanocidal action on normal and drug-resistant trypanosomes and toxicity of, in mouse, 14, 425
 - , trypanosome strains resistant to, cross-resistance, development and sensitivity of, in mouse, 14, 425
- Acrylic acids, β -substituted, choline esters of, neuromuscular blocking and other pharmacological actions and toxicity of, 13, 378
- Acryloylcholines, β-substituted, enzymic hydrolysis and pharmacological actions of, 13, 308
- , neuromuscular blocking and other pharmacological actions and toxicity of, 13, 382
- Actinobovis israeli, sensitivity to cephalosporin C and its pyridinium derivative, 16, 173
- Action potentials. See under Potentials Activity, electrical. See Electrical activity
- -, emotional. See Emotional activity

Activity (cont.)	Activity (cont.)
, exploratory, effect of centrally active drugs on, in	, effect of thalidomide on, in mouse, 15, 112
rat, 25, 432 —, nocturnal, device for recording, 16, 83	——, measurement and recording of, in behavioural studies, 25 , 676
—, noctumal, device for recording, 10, 65 —, —, effect of barbiturates on, in psychiatric	See also Behaviour
patients, 16, 82	Addiction, to narcotics, diagnostic test for, 24, 789
—, septal, effect of chlorpromazine on, in normal,	Adenine, effect on response of small intestine to sub-
control and septum-destroyed rats, 17, 473 ——, voluntary, effect of adrenaline, dopamine, 5-	stance P, 21, 117 Adenine nucleotides, in brain, effect of hallucinogens on,
hydroxytryptamine, noradrenaline and tryptamine	in rat, 25, 631
on, and action of pheniprazine (phenylisopropyl-	—, and related compounds, effect on response of small
hydrazine), 17, 262	intestine to substance P, 20, 454, 456
—, —, effect of 1-L-α-alanyl-2-isopropylhydrazine on, in mouse, 24, 55	See also Adenosine mono-, di- and tri-phosphate Adenosine, antiperistaltic action of, and effect of incuba-
$$, effect of α -alkyltryptamines on, in mouse, 24,	tion with adenosine deaminase and intestinal mucosa
50	on, 21 , 240
—, —, effect of amphetamine and amylobarbitone on, in rat, 21, 295	——, effect on electrocardiogram, 21, 241 ——, effect on neuromuscular transmission, 21, 240
—, effect of amylobarbitone and dexamphet-	—, effect on peristaltic reflex of small intestine, 21, 239,
amine on, in rat, 21 , 295	240
,, effect of amphetamine-barbiturate mixture	——, effect on response of phrenic nerve—diaphragm
on, after previous administration in similar environ- ment, 20, 101	preparation to electrical stimulation, 21, 240 ——, effect on response of rectal caecum to substance P,
, effect of antidepressants and related com-	17, 151
pounds on, in rat, 20, 463	—, effect on response of small intestine to coaxial
—, —, effect of BW 392C60 on, in mouse, 20, 50 —, —, effect of barbiturates and placebo on, in	stimulation, 21, 242 ——, effect on response of small intestine to substance P,
psychiatric patients, 20 , 319	21, 117
, effect of bemegride, dexamphetamine, lepta-	—, response of blood pressure to, 21, 241
zol, levamfetamine, methylamphetamine, nikethamide, picrotoxin and strychnine on, in mouse, 24,651	—, —, and effect of atropine, 1-benzyl-5-methoxy-2-methyltryptamine, dibenamine, dichloroisoprenaline
—, —, effect of benzethidine, furethidine and	[1-(3,4-dichlorophenyl)-2-isopropylaminoethanol], di-
pethidine on, 15, 256	hydroergotamine and lysergide (lysergic acid diethyl-
—, —, effect of bethandine on, 20, 48 —, —, effect of bretylium on, in mouse, 14, 545	amide) on, in rat, 15, 133
—, effect of caffeine and thiocaffeines on, in	, response of goldfish intestine to, and effect of atropine and hyoscine on, 17, 458
mouse, 17, 203	—, response of heart beat to, 21, 241
, effect of chlorpromazine and thioproperazine	——, ——, effect of cardiac glycosides and aglycones on,
on, in mouse, 22 , 306 ——, effect of choline 3-isobutyl-1-methyl-6-thio-	in guinea-pig, 14, 175 —, response of small intestine and uterus to, 14, 127
xanthinate, theophyllinate and 6-thiotheophyllinate	—, response of striated muscle to, 21, 240
on, 16 , 73	Adenosine diphosphate, effect on response of rectal
——, effect of choline theophyllinates and 6-thio- theophyllinates on, 17, 200	caecum to substance P, 17, 151 ——, effect on response of small intestine to substance P,
$$, effect of dexamphetamine, $(+)$ - α -methyl-	20 , 456
noradrenaline and $(+)$ - α -methyltryptamine on, and	—, in brain, in mouse, 20 , 456
action of other centrally active drugs, in chick, 25, 685	, effect of antidepressants and related com-
—, effect of dichloroisoprenaline on, in chick, 25, 698	pounds on, in rat, 20 , 464 —, —, effect of hallucinogens on, in rat, 25 , 631
—, —, effect of histamine on, in female mouse, 25, 1	Adenosine monophosphate, effect on response of rectal
—, —, effect of Hydergine, methysergide, phenoxy-	caecum to substance P, 17, 151
benzamine and pronethalol on, in chick, 25 , 696 —, —, effect of (+)- and (-)-hyoscyamine and	, effect on response of small intestine to substance P, 20, 456; 21, 117
-hyoscine on, in rat, 24 , 142	-, in brain, effect of antidepressants and related
—, —, effect of iproniazid on, in rat, 14, 166 —, —, effect of mepesulphate on, in cat, 17, 534	compounds on, in rat, 20, 464
—, effect of methyldopa and/or 5-hydroxytrypt-	—, —, effect of hallucinogens on, in rat, 25, 631 —, in brain extracts, enzymic deamination of, 21, 113
amine or dopa on, in mouse, 15, 323	, response of blood pressure to, 22, 116
—, —, effect of methyldopa and/or iproniazid or	-, response of small intestine and uterus to, 14, 127
harmaline on, in mouse, 15, 323 ——, effect of oxolamine on, 16, 212	Adenosine 5-monophosphate, in brain, in mouse, 20, 454, 456 —, response of goldfish intestine to, and effect of
—, effect of oxolamine on, 16, 212 —, effect of (+)- and (-)-N-(1-phenylethyl)-	atropine and hyoscine on, 17, 458
guanidine on, in mouse, 24, 404	Adenosine 5-monophosphate deaminase, activity of, 21, 117
—, —, effect of procaine on, in dog, 24, 341 —, —, effect of prostaglandins on, in cat, 22, 190	Adenosine triphosphatase, activity of, 21, 120 ——, in liver, <i>in-vitro</i> effect of chlorpromazine, 2,4-di-
—, effect of prostagianding on, in eat, 22, 190 —, —, effect of substituted 1,3,4-thiadiazoles on, in	nitrophenol, reserpine and salicylate on, 15, 175
mouse and rat, 13, 358	Adenosine triphosphate, effect on response of cerebral
, effect of sympathomimetic and related amines on, in chick and fowl, 25, 705	cortical neurones to synaptic excitation and L- glutamate, 20, 471
manies on, in other and 10wi, 25, 705	Bracamaco, 20, 7/1

Adenosine triphosphate (cont.)	Adrenals, catechol amines in (cont.)
—, effect on response of goldfish intestine to uridine	—, effect of yohimbine on, and action of imi-
nucleotides, 22, 258	pramine, 21, 59
—, effect on response of rectal caecum to substance P,	——, corticosterone in, effect of reserpine on, and action
17 , 151	of hypophysectomy and stress, 18, 338
—, effect on response of small intestine to substance P,	——, effect of histamine on, in female mouse, 25, 2
20, 456	—, innervated and denervated, catechol amines in,
—, hydrolysis by pyridinium aldoximes, 14 , 199	effect of reserpine on, in rat, 18, 138
, and 5-hydroxytryptamine, in blood platelets from	——, localization of bretylium in, 15, 267
normal, myeloid, leukaemic and reserpine-treated	——, localization of o-bromobenzyl- and [2-(4-benzoyl-
men, 13, 62	2,6-dimethylphenoxy)ethyl]-trimethylammonium in,
—, in blood platelets, and their in-vitro adrenaline	17, 93
uptake from plasma, 13, 413	—, localization of [35S]heparin in, 18, 626
—, in brain, in mouse, 20, 454	—, release of adrenaline, noradrenaline and methylated
,, effect of antidepressants and related com-	amines by, effect of angiotensin, bradykinin, di-
pounds on, in rat, 20 , 464	methylphenylpiperazinium, 6 - hydroxydopamine,
, effect of hallucinogens on, in rat, 25, 631	potassium chloride, reserpine, SU 8842, splanchnic
—, in brain extracts, enzymic dephosphorylation of,	stimulation and tyramine on, in dog, 24, 561
21 , 113	—, release of catechol amines by, effect of dimethyl-
—, in cytoplasmic particles of small intestine, in dog,	phenylpiperazinium and sympathetic stimulation on,
15 , 520	and action of prenylamine, 24, 570
—, in intestinal mucosa, effect of reserpine on, in	effect of 6-hydroxydonamine on. 24, 557
dog, 17, 87	—, —, effect of 6-hydroxydopamine on, 24, 557 —, —, effect of nicotine on, in anaesthetized and
—, response of goldfish intestine to, 22, 258	spinal cats, 25, 515
,, and effect of atropine and hyoscine on, 17,	effect of prenylamine on, 24, 566
458	—, —, effect of prenylamine on, 24 , 566 —, —, effect of SK&F 90,109 and 90,238 on, 23 , 496
—, response of small intestine to, 17, 249	, response to tetramethylammonium, effect of SK&F
—, —, effect of chymotrypsin on, 24, 486	90,238 on, 23 , 496
—, with riboflavine, effect on action of trypan blue on	—, weight of, effect of corticosteroids on, in rat, 15, 537
haemoglobin nitrite sensitivity reaction, 19, 494	, effect of hydrocortisone, prednisolone and
Adenylic acid. See Adenosine monophosphate	prednisone on, in rat, 13, 99
Adiphenine (Trasentin):	,, effect of reserpine on, 17, 271; 18, 341
—, antiacetylcholine, antitremor, local anaesthetic and	,, effect of thyroxine sodium on, in mouse, 17,
mydriatic actions and toxicity of, 14, 564	141
—, effect on antidiuretic action of nicotine, 15, 510 —, effect on response of <i>Tapes</i> heart to acetylcholine,	Adrenal function, effect of bretylium on, 14, 542
25, 488	—, effect of iproniazid on, 14, 485
—, inhibition of atrial fibrillation by, 13, 107	Adrenal medulla, dopa decarboxylase from, substrate
Adipylcholine, response of semispinalis muscle to, 15, 413	specificity of, 18, 175
Adrenals, ascorbic acid in, as index of corticotrophin	-, release of catechol amines by, during sympathetic
secretion, 18, 344	stimulation, 13, 390 —, effect of angiotensin, bradykinin and hist-
——, ——, effect of benactyzine, chlorpromazine, pheno-	amine on, and action of antiadrenaline agents, anti-
barbitone and reserpine on, in stressed, non-stressed,	histamines and ganglion-blocking agents, in cat and
hypophysectomized and hydrocortisone-treated rats,	dog, 25, 728
19, 459	, effect of angiotensin, bradykinin, lobeline
—, —, effect of blood from adrenalectomized,	and nicotine on, and action of ganglion-blocking
stressed, hydrocortisone-treated rats on, 14, 215	agents, in dog, 25, 738
,, effect of chlorpromazine and perphenazine	agents. In dog. 25, 750
on in many 20 504	, release of vasopressor substances by, during
on, in mouse, 20 , 504	, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20,
on, in mouse, 20, 504 —, effect of corticotrophin on, action of hydro-	, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on
on, in mouse, 20, 504 —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine,	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruyate, in cat, 25, 148
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 effect on action of imipramine on toxicity of
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 effect on action of imipramine on toxicity of yohimbine, 21, 58
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99	 —, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 —, effect on action of imipramine on toxicity of yohimbine, 21, 58 —, effect on action of α-methyltryptamine on cerebral
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459	 , release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 , effect on action of imipramine on toxicity of yohimbine, 21, 58 , effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 effect on action of imipramine on toxicity of yohimbine, 21, 58 effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 effect on action of nicotine on response of blood
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 effect on action of imipramine on toxicity of yohimbine, 21, 58 effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 effect on action of nicotine on response of blood pressure to angiotensin, 22, 217
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, —, effect of stress on, action of hydrocortisone,	 release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 effect on action of imipramine on toxicity of yohimbine, 21, 58 effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 effect on action of sodium intake on urinary
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99	 —, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 —, effect on action of imipramine on toxicity of yohimbine, 21, 58 —, effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 —, effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 —, effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-	 —, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 —, effect on action of imipramine on toxicity of yohimbine, 21, 58 —, effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 —, effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 —, effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 —, effect on antiphlogistic action of iproniazid, 14, 486
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, effect of reserpine and stress on, 18, 341 —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41	 —, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 —, effect on action of imipramine on toxicity of yohimbine, 21, 58 —, effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 —, effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 —, effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 —, effect on antiphlogistic action of iproniazid, 14, 486 —, effect on chlorpromazine-induced hyperglycaemia,
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, effect of reserpine and stress on, 18, 341 —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41 —, effect of guanethidine and guanoxan on, 24,	 , release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 , effect on action of imipramine on toxicity of yohimbine, 21, 58 , effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 , effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 , effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 , effect on antiphlogistic action of iproniazid, 14, 486 , effect on chlorpromazine-induced hyperglycaemia, in rat, 23, 96
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41 —, —, effect of guanethidine and guanoxan on, 24, 42	 —, release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 —, effect on action of imipramine on toxicity of yohimbine, 21, 58 —, effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 —, effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 —, effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 —, effect on antiphlogistic action of iproniazid, 14, 486 —, effect on chlorpromazine-induced hyperglycaemia, in rat, 23, 96 —, effect on dextran anaphylactoid reaction, in rat,
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41 —, —, effect of guanethidine and guanoxan on, 24, 42 —, —, effect of imipramine, reserpine, syrosingopine	 , release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 , effect on action of imipramine on toxicity of yohimbine, 21, 58 , effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 , effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 , effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 , effect on antiphlogistic action of iproniazid, 14, 486 , effect on chlorpromazine-induced hyperglycaemia, in rat, 23, 96 , effect on dextran anaphylactoid reaction, in rat, 20, 556
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41 —, —, effect of guanethidine and guanoxan on, 24, 42 —, —, effect of imipramine, reserpine, syrosingopine and tetrabenazine on, 21, 59	 , release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 , effect on action of imipramine on toxicity of yohimbine, 21, 58 , effect on action of a-methyltryptamine on cerebral electrical activity, in cat, 24, 665 , effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 , effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 , effect on antiphlogistic action of iproniazid, 14, 486 , effect on chlorpromazine-induced hyperglycaemia, in rat, 23, 96 , effect on dextran anaphylactoid reaction, in rat, 20, 556 , effect on dopamine-β-oxidase activity, in man, 20,
on, in mouse, 20, 504 —, —, effect of corticotrophin on, action of hydrocortisone, in rat, 13, 100; 15, 97 —, effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 —, effect of hydrocortisone, prednisolone and prednisone on, in rat, 13, 99 —, effect of mustine, reserpine and saline on, in rat, 15, 166 —, —, effect of reserpine and stress on, 18, 341 —, effect of stress on, action of hydrocortisone, prednisolone and prednisone, in rat, 13, 99 —, catechol amines in, effect of dimethylphenyl-piperazinium on, 24, 41 —, —, effect of guanethidine and guanoxan on, 24, 42 —, —, effect of imipramine, reserpine, syrosingopine	 , release of vasopressor substances by, during splanchnic stimulation, effect of guanethidine on, 20, 175 Adrenalectomy, effect on action of hydrocortisone on blood-pyruvate, in cat, 25, 148 , effect on action of imipramine on toxicity of yohimbine, 21, 58 , effect on action of α-methyltryptamine on cerebral electrical activity, in cat, 24, 665 , effect on action of nicotine on response of blood pressure to angiotensin, 22, 217 , effect on action of sodium intake on urinary excretion of histamine, in rat, 22, 453 , effect on antiphlogistic action of iproniazid, 14, 486 , effect on chlorpromazine-induced hyperglycaemia, in rat, 23, 96 , effect on dextran anaphylactoid reaction, in rat, 20, 556

Adrenalectomy (cont.) effect on histamine and 5-hydroxytryptamine metabolism, in rat, 16, 364 effect on release of catechol amines from tissues by histamine, 23, 368 , effect on response of blood pressure to acetylcholine, in atropinized dog, 24, 452 , effect on response of blood pressure to adrenaline, **24**, 616 , effect on response of blood pressure to angiotensin, noradrenaline and pepsitensin, 18, 267 , effect on response of blood pressure to dimethylphenylpiperazinium, 14, 542; 20, 371 , effect on response of blood pressure to guanethidine, 19, 79; 20, 174; 22, 241 -, effect on response of blood pressure to 2-halogenoethylamines, 16, 79 , effect on response of blood pressure to isoprenaline, in cat, **21**, 383 , effect on response of blood pressure to leptodactyline, in spinal cat, 15, 17 , effect on response of blood pressure to pempidine, **13**, 343 -, effect on response of blood pressure to peptone, 13,179 -, effect on response of blood pressure and nictitating membrane to bretylium and guanethidine, 20, 371 -, effect on response of blood pressure and nictitating membrane to 3-phenoxypropylguanidine, 18, 483 , effect on response of nictitating membrane to bretylium, 19, 24 -, effect on wound healing, and action of cortisone, 20, 512 —, mock. See Laparoton Adrenaline [(-)-adrenaline]: See Laparotomy , anticurare action of, effect of benzoquinonium on, **13**, 527 -, bioassay of, in presence of isoprenaline, noradrenaline and phenethylamine, 23, 363 -, in presence of noradrenaline, 22, 208 -, on isolated intact trachea, 19, 291 -, central action of, in chick, 25, 705 -, effect of cocaine, dichloroisoprenaline, dihydroergotamine, Hydergine, phenoxybenzamine and pronethalol on, in chick, 25, 714 , effect of pheniprazine (phenylisopropylhydraine) on, 17, 261 , diuretic action of, and effect of bretylium and phenoxybenzamine on, 17, 464 effect of high concentrations on action of phenoxybenzamine on response of aorta and retractor penis to adrenaline, dexamphetamine and 5-hydroxy--, effect on neuromuscular blocking action of benzotryptamine, 21, 432 , effect of high concentrations on action of phenoxyquinonium, decamethonium and tubocurarine, 13, benzamine on response of small intestine to acetyl-524 choline, adrenaline, dexamphetamine, histamine and -, effect on neuromuscular blocking action of 5-hydroxytryptamine, 21, 430 chlorpromazine, 15, 90 effect of high concentrations on action of phenoxy--, effect on potassium content and uptake of auricle, and action of dichloroisoprenaline and phenoxybenzamine, 19, 274 benzamine on response of splenic muscle to acetylcholine, adrenaline, histamine and 5-hydroxytrypt-amine, 19, 429 , effect on quinidine-arrested atrium and on stimulateffect of high concentrations on action of phenoxying action of acetylcholine, 13, 306 , effect on recovery of isolated myocardium from benzamine on response of uterus to adrenaline, dexamphetamine and 5-hydroxytryptamine, 21, 431, effect on action of bretylium on response of acute anoxia, 24, 255 , effect on release of oxytocin from pituitary, and Finkleman ileum preparation to electrical stimulaaction of acetylcholine and phenoxybenzamine, in tion, 19, 88 lactating rat, 17, 299 -, effect on respiration of lamellibranch gill, 17, 281 , effect on action of isoprenaline on response of hypogastric nerve-vas deferens preparation to effect on response of aorta and retractor penis to ergotamine, 19, 124 electrical stimulation, 24, 198

Adrenaline (cont.) , effect on action of a-methyltryptamine on cerebral electrical activity, in cat, 24, 666 , effect on action of phenoxybenzamine on response of uterus to ergometrine, 19, 125 , effect on action of reserpine on response of blood pressure to 2-halogenoethylamines, 16, 79 , effect on action of reserpine on response of small intestine to sympathetic stimulation, 18, 428 effect on action of tubocurarine on response of fast- and slow-contracting muscles to indirect stimulation, and action of dichloroisoprenaline, phenoxybenzamine, phentolamine and pronethalol (2-isopropylamino-1-naphth-2'-ylethanol), 19, 478 , effect on action potentials in fast- and slow-contracting muscles, 19, 472 , effect on beat of normal and reserpine-treated auricles, and action of dichloroisoprenaline (dichloroisoproterenol), 15, 503 , effect on adrenergic neurone-blocking action of bretylium, guanethidine and xylocholine, 18, 421 , effect on behaviour, in pigeon, 17, 9 , effect on blood-sugar and corticosterone and free fatty acids in plasma, in anaesthetized rat, 25, 550 , effect on bronchoconstrictor action of bradykinin -, effect on bronchoconstrictor action of eledoisin, 19, 340 -, effect on drug-induced tremor, in cat, 15, 578 , effect on extracellular water and intracellular potassium and sodium ions in auricle, 19, 282 , effect on formaldehyde-induced inflammation, in mouse, 16, 165 , effect on free fatty acids in plasma, in anaesthetized rat, 25, 546, 549 -, effect on ganglionic transmission, 23, 234 ., —, and action of azacyclonal, chlorpromazine and ergotoxine, 23, 235 -, effect on glycogen in uterus, 16, 126 , effect on high-energy phosphorus compounds in cardiac muscle, 15, 393 , effect on induction of oedema by compound 48/80, dextran, eggwhite, histamine and 5-hydroxytryptamine, in rat hindpaw, 13, 67 -, effect on induction of oedema by formaldehyde, in rat hindpaw, 13, 68 -, effect on intestinal motility, in rat, 14, 32 , effect on metabolism and performance of isolated heart, 15, 389 , effect on milk ejection, and action of dibenamine, in lactating guinea-pig, 17, 306

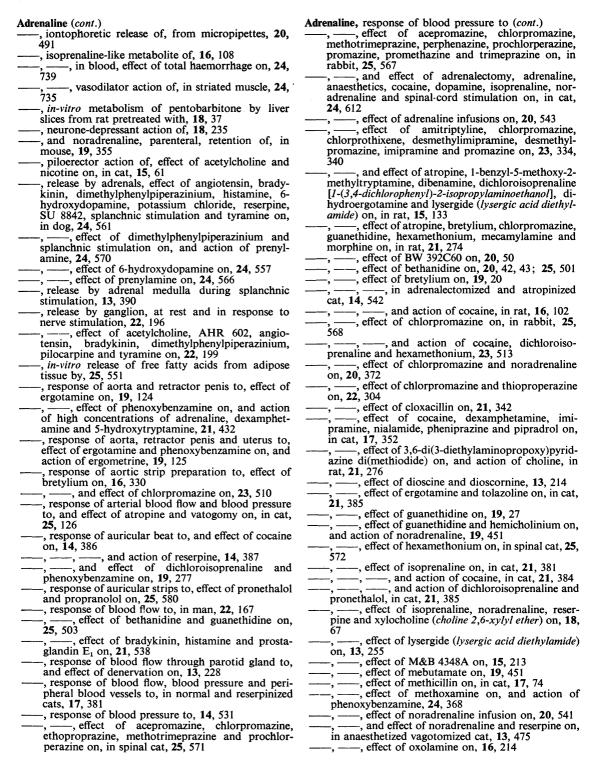
Adrenaline (cont.) Adrenaline (cont.) effect on response of trachea to acetylcholine. , effect on response of blood pressure to adrenaline, noradrenaline and tyramine, 20, 543 barium ions, histamine and 5-hydroxytryptamine, effect on response of blood pressure to eledoisin, 20, 522 , effect on response of tracheal chain preparation to , effect on response of trout gut to acetylcholine, 13, 219 , effect on response of blood pressure to 5-hydroxytryptamine and phenyldiguanide, 14, 531 , effect on response of blood pressure to noradrenaline, 24, 614 , effect on response of trout gut to nerve stimulation, , effect on response of blood pressure to tyramine, 13, 221 in reserpinized animals, 15, 48 , effect on response of urinary bladder preparation -, effect on response of blood vessels to noradrenaline, to acetylcholine, 24, 181 in rat, 18, 459 -, effect on response of uterus to acetylcholine, -, effect on response of cerebral cortical neurones to action of bretylium, 16, 333 L-glutamate and synaptic excitation, 20, 471 , action of cocaine, guanethidine and phenoxy-, effect on response of fast- and slow-contracting benzamine, 21, 361 muscles to direct and indirect stimulation, and effect on response of uterus to sympathetic stimulation, in cat, 15, 51 action of dichloroisoprenaline, phenoxybenzamine, , in reserpinized cat, 15, 59 phentolamine, pronethalol (2 - isopropylamino - 1 naphth-2'-ylethanol) and tetanus, 19, 464 , effect on spontaneous activity of venous prepara--, effect on response of gastrointestinal propulsion to tions, 24, 744 morphine, in rat, 14, 32 effect on spontaneous activity and response of large intestine to angiotensin, 23, 353 , effect on response of heart beat to phenoxybenzamine during ganglionic blockade, 16, 12 effect on thermal conductivity of skin, in man, 22, -, effect on response of hypogastric nerve-vas deferens 168 preparation to electrical stimulation, 24, 642 effect on uptake of bretylium and guanethidine by , and action of dichloroisoprenaline, phentolheart, in rat, 25, 174 amine and pronethalol, 24, 195 , effect on uptake of noradrenaline by heart at low , effect on response of intestine to staphylococcal perfusion concentration, 25, 34 , effect on urinary excretion of electrolytes, 17, 465 a-toxin, 14, 63, 64 -, effect on urinary excretion of sympathin, in rat, 13, 37 -, effect on response of iris to sympathetic stimulation, in reserpinized cat, 15, 50 , fluorimetric determination in adrenals and blood, , effect on response of large and small intestine to eledoisin, 19, 341 in presence of noradrenaline, 13, 391 , effect on response of molluscan smooth muscle to , ganglion-blocking action of, effect of repetitive preacetylcholine and electrical stimulation, 14, 405 ganglionic stimulation on, 24, 76 , glycogenolytic and hyperglycaemic actions of, effect effect on response of nictitating membrane to bretylium, 14, 539 of fasting on, in rat, 22, 267 , hyperglycaemic action of, effect of hypoglycin-A , effect on response of panniculus carnosus-skin preparation to transmural stimulation, 21, 336 on, 13, 128 , effect on response of phrenic nerve-diaphragm preparation to electrical stimulation, and action -, effect of 3-phenoxypropylguanidine on, 18, 485 , in adrenals and heart, effect of phenobarbitoneof dichloroisoprenaline, iodoacetate, oxygen-lack, phentolamine, potassium chloride and pronethalol, and urethane-induced anaesthesia on, 24, 752 **23**, 187 -, in atrium, effect of reserpine on, 18, 604 , in blood, effect of haemorrhage and phenoxybenz-, effect on response of potassium-depressed phrenic amine on, in normal and adrenalectomized dogs, nerve-diaphragm preparation to electrical stimulation, and action of caffeine, fluoride and theophyl-14, 9 -, in brain, 24, 762 line, 23, 193 and action of dichloroisoprenaline, iodo-, effect of chlorpromazine and reserpine on, in dog, 18, 595 acetate, oxygen-lack, phentolamine and pronethalol, 23, 187, 191 -, effect of rauwolfia alkaloids on, in rat, 13, , and action of N-isopropylmethoxamine and **87** methoxamine, 23, 191 , in denervated and innervated adrenals, effect of , and action of L-thyroxine sodium, 23, 192 reserpine on, in rat, 18, 138 -, in heart, and effect of pithing on, in rat, 16, 353 effect on response of small intestine to substance P, 20, 454 , in spleen, effect of urethane-induced anaesthesia -, effect on response of small intestine to sympathetic on, and action of adrenaline infusion, in intact and stimulation, 18, 423 demedullated rats, 24, 755 effect on response of small intestine and uterus to -, in splenic extracts, 14, 398 electrical stimulation, action of phenoxybenzamine, -, in tissues, effect of adrenaline infusion on, and 22, 109 action of reserpine, in cat and rat, 18, 183 , effect on response of sterno-trachealis preparation , induction of cardiac arrhythmias by, 13, 148; 24, to indirect stimulation, 18, 616 614 effect on response of stomach strip to acetylcholine, during chloroform anaesthesia, effect of dexamphetamine and 5-hydroxytryptamine, 22, 206 pronethalol on, 24, 308 , intravitreous, effect on pupil diameter and outflow , effect on response of terminal tract of bile duct to

of aqueous humour from eye, and action of phentol-

amine, 23, 374

atropine, barium ions, carbachol, cholecystokinin

and papaverine, 20, 226



Adrenaline, response of blood pressure to (cont.) Adrenaline, response of blood vessels to (cont.) -, effect of hexamethonium and nerve section , effect of Paspalum scrobiculatam extract on, 18, 14 on, in rat, 18, 460 , effect of hexamethonium and pentolinium -, effect of pempidine on, 13, 342 , effect of phenoxybenzamine on, during on, 13, 482 ganglionic blockade, 16, 12 , effect of large doses of isoprenaline on, in , effect of phenoxybenzamine and phentolcat, 21, 386 amine on, and action of atropine, 23, 593 -, effect of phentolamine on, 24, 100 , response of blood vessels and peripheral vascular , effect of phenoxybenzamine and pronethalol resistance to, in rat, 18, 455
-, response of cardiac muscle to, effect of reserpine on, 22, 262 -, —, effect of (+)-, (-)- and (\pm)-N-(1-phenylethyl)guanidine on, 24, 401 on, 18, 591 -, effect of physalaemin on, 25, 383 , response of cardiovascular system to, effect of -, effect of physalaemin and Prosympal on, 25, benzethidine, furethidine and pethidine on, 15, 256 383 -, response of denervated nictitating membrane to, in , effect of procainamide on, 22, 145 anaesthetized and spinal cats, 25, 519 , response of denervated striated muscle to, and -, effect of pronethalol on, 23, 594 -, effect of SK&F 90,109 and 90,238 on, 23, 496 effect of antiadrenaline and neuromuscular blocking -, effect of substituted 1,3,4-thiadiazoles on, 13, agents on, 24, 98 , response of duodenum and terminal tract of bile 361 duct to, and effect of antiadrenaline agents on. 20. effect of N-[2-(2,6-xylyloxy)ethyl]guanidine on, 25, 537 response of goldfish intestine to, and effect of , response of blood pressure, cardiac contractility and heart beat to, effect of reserpine on, and action dichloroisoprenaline, ephedrine and phenoxybenzamide (Dibenyline) on, 17, 456 of dichloroisoprenaline and phenoxybenzamine, 21, , response of heart beat to, in reserpinized cat, 17, 387 -, response of blood pressure and heart beat to, effect -, effect of ambient temperature on, 25, 122 -, effect of atropine and bethanidine on, 20, 43 -, —, effect of bath-calcium, -potassium and sodium concentrations on, 23, 66 of dichloroisoprenaline (dichloroisoproterenol) on, in phenoxybenzamine-treated dog, 16, 12 , response of blood pressure, heart beat and nictitating membrane to, effect of chlorpromazine on. in -, effect of cocaine on, 13, 464 -, effect of dichloroisoprenaline (dichloroisoanaesthetized and spinal vagotomized cats, 25, 569 proterenol) on, 15, 504
-, —, effect of dichloroisoprenaline (dichloroiso--, response of blood pressure, heart beat, nictitating membrane, small intestine and vas deferens to, effect of prostaglandin E₁ on, 21, 538 proterenol) and phenoxybenzamine on, 16, 12 response of blood pressure, heart beat and plasma--, effect of large doses of isoprenaline on, and action of dichloroisoprenaline, hexamethonium and fibrinogen to, in dog, 17, 392 pronethalol, in cat, 21, 385 , response of blood pressure and hind-leg volume to, -, effect of methoxamine on, 24, 366, 368 effect of noradrenaline and reserpine on, in anaesthetized vagotomized cat, 13, 475 -, effect of SK&F 90,109 and 90,238 on, 23, 492 , response of heart beat of preparations from , response of blood pressure and nictitating memnormal and thiamine-deficient rats to, 20, 195, response of heart beat of preparations from brane to, effect of bretylium on, in intact, vagotomized and spinal vagotomized cats, 16, 328 reserpinized and untreated dogs to, 16, 310 , effect of cocaine, methyl phenidate and pipradrol on, 20, 545 , response of heart beat and nictitating mem--, effect of cocaine and reserpine on, 18, 53 brane to, effect of antihistamines and cocaine on, -, and effect of phenoxybenzamine on, 19, 122 **13**, 6 -, effect of thalidomide on, in cat, 15, 114 , response of heart beat and small intestine to, effect response of blood pressure, nictitating membrane and spleen to, effect of *N-p*-cyclohexylbenzyltropinium derivatives on, **21**, 20 of cocaine, guanethidine and phenoxybenzamine on, **21**, 361 response of human taenia coli preparation to, effect of procaine on, 23, 170 , response of blood pressure and outflow from per--, and effect of pronethalol on, 23, 166 fused cerebral ventricles to, in anaesthetized cat, 13,161 -, response of hypogastric nerve-vas deferens pre-, response of blood pressure and urine secretion to, paration to, and effect of isoprenaline, phentolamine effect of phenoxybenzamine on, 14, 146 and pronethalol on, 24, 201 -, response of blood vessels to, effect of atropine, , response of ileo-colic sphincter to, 18, 398 evisceration, phenoxybenzamine, phentolamine and , response of intestinal motility and uterus to, effect pronethalol on, 23, 596 -, effect of bethanidine, bretylium and guanof bretylium on, 14, 538 ethidine on, 25, 502 -, response of large intestine to, 23, 157; 24, 161 -, effect of bretylium on, 14, 539 , response of large and small intestine and stomach strip to, 23, 352 -, and effect of S-(o- and p-chlorobenzyl)isothiourea, naphth-2-ylguanidine, phenyldiguanide -, in-vitro response of mammary gland to, 19, 139 -, response of myocardial circulation to, and effect of and S-(3-phenylpropyl)isothiourea on, 14, 531 -, effect of cocaine on, 14, 387 pronethalol on, 24, 601 -, response of nictitating membrane to, effect of , effect of cocaine and 3-phenoxypropylguanidine on, 18, 479 aralkylguanidines on, 24, 399, 400 -, and effect of dichloroisoprenaline on, in , effect of atropine and physostigmine on, 20, 86; 22, 565, 571 man, 19, 235

Adrenaline, response of nictitating membrane to (cont.)	Advanaling (cout)
—, effect of bethanidine on, 20, 39; 25, 501	Adrenaline (cont.) —, response of stomach strip to, 22, 206
, effect of bretylium on, 19, 18, 20	—, effect of blood on, 23, 362
, and action of cocaine, 14, 540	-, response of sympathetic nerve-intestinal segment
,, effect of cloxacillin on, 21, 342	preparation to, effect of guanethidine on, 17, 249
, effect of cocaine, dexamphetamine, imi-	-, response of <i>Tapes</i> heart to, 25, 488
pramine, nialamide, pheniprazine, pipradrol and	—, response of <i>Tapes</i> rectum to, 25 , 493
pyrogallol on, in cat, 17, 340	——, response of trachea to 19 291
——, ——, effect of denervation on, 19, 32	—, response of tracheal ring to, 13, 496
—, effect of ganglionic blockade on 19, 31	, response of trout gut to, 13, 218
——, ——, effect of guanethidine on, 19, 27	-, response of urinary bladder preparation to, 24,
—, —, effect of guanidine and its derivatives on, 19,	181, 591; 25 , 290
423	, response of uterus to, effect of bethanidine on, 20,
, and effect of harmaline, iproniazid and	48
isoniazid on, 21, 203	,, effect of carbon dioxide and pH on, 14, 23
—, —, effect of hexamethonium on, 22, 564 —, —, effect of hexamethonium and pentolinium	-, -, and effect of dichloroisoprenaline and
—, effect of hexamethonium and pentolinium	isoprenaline on, 16, 116
on, 13, 482	, effect of dichloroisoprenaline and phenoxy-
—, —, effect of M&B 4086 and mecamylamine on,	benzamine on, 22, 106
15, 209	, effect of iproniazid, nialamide, phenelzine
—, —, effect of M&B 4348A on, 15, 213 —, —, effect of methylpentynol and its carbamate	and tranyleypromine on, 25, 221
	—, —, effect of methoxamine on, 24, 371 —, effect of phenoxybenzamine on, and action
on, 14, 297	—,—, effect of phenoxybenzamine on, and action
——, ——, effect of reserpine on, 19, 31 ——, ——, effect of SK&F 90,109 and 90,238 on, 23, 489 ——, ——, effect of substance P on, in cat, 15, 12	of high concentrations of adrenaline, dexamphet-
,, effect of SK&F 90,109 and 90,238 on, 23, 489	amine and 5-hydroxytryptamine, 21, 431
effect of substance P on, in cat, 15, 12	-, -, effect of (+)- and (-)- N -(1-phenylethyl)-
—, —, effect of xylocholine (choline 2,6-xylyl ether)	guanidine on, 24, 402
on, 18, 67 ——, response of nictitating membrane and submaxillary	, response of vas deferens to, effect of bethanidine
gland to, effect of repeated administration of	on, 20, 48 —, response of venous preparations to, and effect of
ganglion-blocking agents on, 14, 229	dihydroergotamine and phentolamine on, 24, 744
, response of perfused lung to, 16, 196	response of <i>Venus</i> heart to, and effect of bromo-
—, response of rectal caecum to, and effect of various	lysergic acid diethylamide on, 15, 365
antagonists on, 17, 147	, sialogenous action of, effect of atropine and
, response of seminal vesicles to, and effect of	Hoechst 9980 on, 22, 121
chlorpromazine on, 23, 513	——. effect of cocaine on 15 330
—, effect of cocaine and 3-phenoxypropyl-	—, —, effect of cocaine on, 15, 330 —, —, effect of denervation on, 15, 357 —, effect of denervation and parasympatholytic
guanidine on, 18, 477	, effect of denervation and parasympatholytic
—, effect of mecamylamine and pempidine and	agents on, 15, 358
its N-ethyl homologue on, 13, 511	—, —, and effect of dichloroisoprenaline, dihydro-
—, response of small intestine to, 18, 423	ergotamine, phenoxybenzamine and pronethalol on,
—, —, effect of methoxamine and phentolamine on,	in rat, 25 , 134
24 , 371	,, effect of ganglionectomy and pilocarpine on,
, effect of (+)- and (-)-N-(1-phenylethyl)-	18, 503
guanidine on, 24, 403	, effect of SK&F 90,109 and 90,238 on, 23,
—, response of small intestine and uterus to, 14, 127	492
—, —, effect of SK&F 90,109 and 90,238 on, 23, 491	—, stability in solution, 19, 277
—, response of smooth muscle to, effect of hypo-	—, transport number of, 20 , 492
glycin-A on, 13, 129	—, uptake by denervated and innervated submaxillary
, response of smooth muscle at junction of bile duct	gland, in cat, 14, 273
with duodenum to, and effect of atropine, diben-	—, uptake by heart, 24, 391
amine, dichloroisoprenaline and vagotomy on, 23, 101—, response of spleen to, effect of bethanidine,	, uptake by heart at high perfusion concentration, 25,
bretylium and guanethidine on, 25, 501	18 untake by liver in cat. 21, 202
, response of splenic muscle to, and effect of atropine,	, uptake by liver, in cat, 21, 202
bromolysergic acid diethylamide, cocaine, dihydro-	—, in-vitro uptake from plasma by blood platelets, and relation to their adenosine triphosphate content, 13,
ergotamine and morphine on, 19, 431	411
—, effect of phenoxybenzamine on, and action	—, urinary excretion of, effect of acetylcholine on, and
of cocaine and 5-hydroxytyramine or tyramine, 19,	action of phenoxybenzamine, 14, 144
435	—, —, effect of catechol amines on, and action of
,, and action of high concentrations of	phenoxybenzamine, 14, 146
acetylcholine, adrenaline, histamine, 5-hydroxy-	—, effect of dexamphetamine on, and action of
tryptamine and tyramine, 19, 429	mecamylamine and reserpine, in normal and
, response of splenic muscle desensitized to 5-	adrenal-demedullated rats, 23, 533
hydroxytryptamine to, 19, 430	,, effect of hydrallazine, sympatholytics and
, response of splenic muscle from reserpinized	vasopressin on, in cat, 14, 380
animals to, effect of phenoxybenzamine on, and	—, —, effect of mecamylamine on, in normal and
action of high concentrations of 5-hydroxytrypt-	adrenal-demedullated rats, 23, 532
amine and tyramine, 19, 435	—, —, effect of methacholine on, 14 , 143
• •	

Adrenaline, urinary excretion of (cont.) -, effect of noradrenaline infusion on, action of hexamethonium and phenoxybenzamine, in dog, 14, -, effect of phenoxybenzamine on, and action of acetylcholine and hexamethonium, 14, 142 -, effect of reserpine on, and action of mecamylamine and a monoamine-oxidase inhibitor, in normal and adrenal-demedullated rats, 23, 529 , under normal and various experimental conditions, in rat, 13, 35 -, vasomotor response to, effect of repeated administration on, 24, 612 -, vasoconstrictor action of. See response of blood vessels to See also Catechol amines and Sympathomimetic amines (+)-Adrenaline, effect on response of potassium-depressed phrenic nerve-diaphragm preparation to electrical stimulation, and action of dichloroisoprenaline, iodoacetate, oxygen-lack, phentolamine and pronethalol, 23, 187, 191 uptake by isolated heart, 24, 391 (-)-Adrenaline. See Adrenaline (\pm) -Adrenaline, effect on uptake of (\pm) -noradrenaline by heart, 24, 391 , effect on uptake of noradrenaline by heart at high perfusion concentration, 25, 25 , effect on uptake of noradrenaline by heart at high and low perfusion concentrations, 25, 34, uptake by heart, and effect of desipramine and -, uptake by heart at high perfusion concentration, 25, 18 (\pm) -noradrenaline on, 24, 387 (\pm) - β -[3H]Adrenaline, chromatographically pure, preparation of, 19, 356 Adrenaline receptors, effect of 5-hydroxytryptamine on, 19, 427 Adrenergic action, of bretylium and guanethidine, mechanism of initial phase of, 20, 362 Adrenergic blocking action, of bretylium and guanethidine, mechanisms of, 25, 171 -, of chlorpromazine, 23, 508 , of monoamine-oxidase inhibitors, 25, 221 See also Adrenolytic action β -Adrenergic blocking action, and pressor action, of isoprenaline, in cat, 21, 378 Adrenergic blocking agents, antiacetylcholine action of,

, antiacetylcholine, anticholinesterase and cholin-

-, effect on action of imipramine on toxicity of

-, effect on electroencephalogram and on response to

, effect on enzymic destruction of bradykinin by

-, effect on hydrolysis of hippuryl-L-arginine by carboxypeptidase B, 22, 335

effect on response of aorta to nicotine and nor-

-, effect on response of auricular beat to butyryl-

, effect on response of blood pressure to eledoisin,

, effect on response of blood pressure to guanethi-

choline, noradrenaline and tyramine, 17, 232

dine, noradrenaline and tyramine, 22, 241

15, 525; **20**, 528

yohimbine, 21, 57

brain extracts, 22, 333

adrenaline, 14, 239

20, 519, 524

ergic blocking actions of, 20, 418

reticular stimulation, in cat, 13, 489

Adrenergic blocking agents (cont.) , effect on response of blood pressure, heart beat and nictitating membrane to bretylium and guanethidine, 20, 364 , effect on response of large intestine to acetylcholine, nerve stimulation and noradrenaline, 23, 158 , effect on response of molluscan smooth muscle to acetylcholine and electrical stimulation, 14, 405 , effect on response of smooth-muscle preparations to acetylcholine and cholinergic nerve stimulation, 20, 420 -, effect on toxicity of yohimbine, 21, 57 -, postganglionic, effect on response of hypogastric nerve-vas deferens preparation to electrical stimulation, 21, 190 , effect on response of vas deferens to electrical stimulation, 21, 190 , response of molluscan smooth muscle to, 14, 405 See also Adrenolytics Adrenergic function, effect of nialamide on, 20, 121 Adrenergic mechanisms, in hypogastric nerve-vas deferens preparation, 24, 641 -, in nictitating membrane, 20, 83 Adrenergic nerves, of jejunum, effect of atropine, bretylium, cocaine, hexamethonium, morphine and nalorphine on, 16, 23 Adrenergic neurone-blocking action. See under Neuroneblocking action β -Adrenergic receptors, in kidney, 20, 135 Adrenochrome, effect on ganglionic transmission, 23, 233 Adrenocorticotrophic hormone. See Corticotrophin Adrenolytics, action at sympathetic postganglionic termination, 24, 675 -, effect on amines in aortic plasma, 16, 111 , effect on apomorphine-induced emesis and pecking. in pigeon, 16, 142 , effect on response of blood pressure to peptone, 13. 180 -, effect on response of denervated striated muscle to sympathomimetic amines, 24, 103 , effect on responses to sympathetic stimulation, 22, 527 See also Adrenergic blocking agents Adrenolytic action, of (2-bromoethyl)ethyl(naphth-1-ylmethyl)amine, relation to distribution and excretion, in rat. 23, 288 -, of dihydroergotamine, 22, 122; 25, 135 -, of ephedrine, 17, 147 -, of 1-ethyl-2,2,6,6-tetramethylpiperidine, 13, 511 -, of guanoxan, 24, 32 , of phenothiazine derivatives, and relation to antitetanus action, 25, 566 See also Adrenergic blocking action Affinity, of quaternary ammonium compounds related to acetylcholine, relation to chemical structure, 21, 509 Agmatine, effect on ganglionic and neuromuscular blockade, 19, 414 Air, expired, excretion of intravenous (2-bromoethyl)ethyl(naphth-1-ylmethyl)amine in, in rat, 23, 291 excretion of intravenous methylpentynol and its carbamate in, in cat, 13, 368

Air-perfusion apparatus, for guinea-pig lungs, 14, 48

 β -Alaninamide, effect on ventral root potentials in spinal

D- and L-α-Alanine, effect on ventral root potentials in

 β -Alanine, effect on ventral root potentials in spinal cord.

Ajmaline, antifibrillatory action of, 17, 425

cord, 16, 262

16, 262

spinal cord, 16, 262

1-L-α-Alanyl-2-isopropylhydrazide, central stimulant

action of, in mouse, 24, 55, effect on action of 5-hydroxytryptamine on 5hydroxytryptamine in blood platelets, in mouse, 24,

-, effect on action of 5-hydroxytryptophan on uptake of 5-hydroxytryptamine by blood platelets, in mouse, **24**, 72

-, effect on central stimulant action of α-alkyltryptamines, 24, 55

Albumin, and hydrolysates, effect on peristaltic reflex, 15,

-, preparation of pepsitensin from, 18, 256

, serum-, diazotized, response of sensitized and nonsensitized denervated striated muscle to, 25, 615 Alcohol. See Ethyl alcohol

Alcohols, primary, depressant action of, on different biological systems, 15, 185

Aldosterone, effect on blood-pyruvate, in cat, 25, 147 , effect on bronchoconstrictor action of bradykinin,

-, effect on functions of perfused kidney, and action

of SC-11480 and spironolactone, 20, 446 -, effect on histamine in lungs and small intestine, in guinea-pig, 25, 664

-, effect on leptazol-induced convulsions, in rat, 19, 271

, response of large intestine to, 23, 352

Aldosterone-like action, of SC-11480 and spironolactone, 20, 445

Aldoximes. See Oximes

Alimentary tract. See Gut

Alkoxyalkylnorpethidines, analgesic action and toxicity of, 15, 247

Alkoxyamines, antimicrobial action of, 15, 243

α-Alkoxy-ω-p-aminophenoxyalkanes, substituted, schistosomicidal action of, 13, 242

Alkoxydiguanides, and their derivatives, antimicrobial action of, 15, 243

a-Alkoxy-ω-p-mono- and -di-alkylaminophenoxyalkanes, substituted, schistosomicidal action of, 13, 242

α-Alkoxy-ω-p-mono- and -di-(ω-hydroxyalkyl)aminophenoxyalkanes, substituted, schistosomicidal action of, 13, 242

Alkyl organophosphorus compounds, structure-neuro-toxicity relations in, 15, 271

Alkylamines, response of Venus heart to, and effect of bromolysergic acid diethylamide on, 15, 368

t-Alkylamines, ganglion-blocking action of, 13, 502

Alkylating agents, effect on renal function, 21, 581 Alkylphosphonofluoridates, demyelination by, in hen, 15,

neurotoxicity, properties and synthesis of, 15, 271

5-Alkyl-2-thiohydantoins, antithyroid action and toxicity of, 13, 350 a-Alkyltryptamines, central-stimulant and monoamine-

oxidase-inhibitory actions of, in mouse, 24, 49 , in-vivo effect on metabolism of 5-hydroxytryptamine, 19, 161

Allantoic fluid, buffering capacity of, 13, 405

Allobarbitone, effect on 5-hydroxytryptamine in brain after death, 18, 372

Allobarbitone-urethane mixture, effect on action of imipramine on toxicity of yohimbine, 21, 58

, effect on toxicity of yohimbine, 21, 59

N-2-Allophanylethyldichloro-N-p-(p-nitrophenoxy)benzylacetamide, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 293 Alloxan, oxidation-reduction potential of, 14, 447

Alloxan (cont.)

, in-vitro trypanocidal action on normal and stilbamidine-resistant trypanosomes, 14, 445, 447

5-Allyl-5-p-chlorophenylpyrrolid-2-one, central depressant action and toxicity of, 25, 790

3-Allyl-1-ethyl-6-thioxanthine, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, 17, 197

3-Allyl-1-methyl-6-thioxanthine, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, **17**, 197

Allylnornicotine, convulsant action and toxicity of, 18,

, effect on antidiuretic action of nicotine and diuretic response to water, in rat, 18, 299

5-Allyl-5-phenylpyrrolid-2-one, central depressant action and toxicity of, 25, 790

1-Allyl-3-phenyl-6-thioxanthine, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, **17**, 197

1-Allyl-2,2,6,6-tetramethylpiperidine, ganglion-blocking action of, 13, 502

Aluminium hydroxide gel, effect on induction of gastric haemorrhage and erosion by reserpine, 14, 114

Amarin, effect on induction of gastric haemorrhage and erosion and sedation by reserpine, 14, 115

Ambenonium, anticholinesterase action of, 15, 481 , and facilitation of neuromuscular transmis-

sion by, 20, 63 , effect on action of benzoquinonium and tubo-

curarine on response of striated muscle to acetylcholine and indirect stimulation, 20, 66

-, effect on action potentials evoked in motor nerve and striated muscle by motor-nerve shocks, 20, 326 -, effect on neuromuscular transmission, 15, 480

, effect on neuromuscular blocking action of decamethonium and tubocurarine, in cat, 15, 476

, effect on response of striated muscle to acetylcholine and electrical stimulation, 15, 480

-, response of smooth muscle of chick amnion to, 18, 554

Ambucetamide, effect on response of human myometrial preparation and uterus to menstrual stimulant and vasopressin, 15, 128

, effect on response of small intestine to menstrual stimulant, 15, 130

, response of human myometrial preparation to, 15, 128

Amethocaine, anaesthetic action and toxicity of, 16, 36

, effect on action of strychnine on cord dorsum potentials and spinal reflexes, in decerebrate cat, 15,

effect on cord dorsum potentials and spinal reflexes, in decerebrate cat, 15, 201

-, effect on inflammation, in mouse foot, 18, 349 -, effect on pressor action and uptake by heart of

noradrenaline, in pithed rat, 16, 356 inhibition of atrial fibrillation by, 13, 107

Amidines, response of pulmonary blood flow and blood pressure to, and effect of atropine and vagotomy on, in cat, 13, 373

x-(m-Amidinophenylazo)-2,7-diamino-10-ethyl-9-phenylphenanthridinium. See Metamidium, purple isomer

9-p-(m- and p-Amidinophenylazo)phenyl-2,7-diamino-10ethylphenanthridinium, trypanocidal action and toxicity of, **17**, 396

9-p-(m- and p-Amidinophenylazo)phenyl-2,7-diamino-10methylphenanthridinium, trypanocidal action and toxicity of, 17, 396

7-m-Amidinophenyldiazoamino-2-amino-10-ethyl-9phenylphenanthridinium. See Isometamidium

7-m-Amidinophenyldiazoamino-2-amino-10-methyl-9phenylphenanthridinium, trypanocidal action and toxicity of, 17, 396

7-m- and p-Amidinophenyldiazoamino-10-ethyl-9-phenylphenanthridinium, trypanocidal action and toxicity of, 17, 396

9-p-(p-Amidinophenyldiazoamino)phenyl-7-amino-10methylphenanthridinium, trypanocidal action and toxicity of, 17, 396

Amidopyrine (aminopyrine):

-, anti-inflammatory action of, 18, 348

, bronchoconstrictor action of, 15, 605

-, effect on action of bradykinin on behaviour, in guinea-pig, 21, 160

, effect on action of bradykinin and histamine on, capillary permeability, 15, 607

effect on bronchoconstrictor action of bradykinin and histamine, 15, 601

effect on bronchoconstrictor action of bradykinin, histamine and 5-hydroxytryptamine, 15, 294

-, effect on bronchoconstrictor action of bradykinin and slow-reacting substance produced in anaphylaxis, 23, 209

-, effect on capillary permeability and squirming responses to intraperitoneal acetic acid, in mouse, 22,

, effect on formaldehyde-induced inflammation, in mouse, 16, 165

, in-vitro effect on histamine release and mast-cell damage in sensitized tissues by antigen and compound 48/80, 15, 85

effect on response of small intestine to bradykinin, histamine and vasopressin, 15, 607

, effect on response of trachea to bradykinin and histamine, 19, 193

-, effect on toe-pinch-induced pain, in guinea-pig, 17, 34

Aminacrine, effect on trypanosomes, in mouse, 14, 425 Amine oxidase. See Monoamine oxidase

ω-Aminoacetophenone, derivatives of, in-ovo and invitro antiviral action of, 13, 404

Amino-acids, effect on peristaltic reflex, 15, 219

. effect on uptake of 5-hydroxytryptophan by brain slices and on 5-hydroxytryptophan decarboxylase, **20**, 183

effect on ventral root potentials of spinal cord, 16, 262 excitation and depression of mammalian cortical

neurones by, 23, 313 Amino-acid-decarboxylase inhibitors, aromatic-, effect on action of 5-hydroxytryptophan on 5-hydroxytryptamine in brain, 24, 59

-, effect on action of 5-hydroxytryptophan on uptake of 5-hydroxytryptamine by blood platelets. in mouse, 24, 72

, effect on central stimulant action of α-alkyltryptamines, 5 - hydroxytryptophan, monoamine -

oxidase inhibitors and tryptamine, in mouse, 24, 57 DL-a-Aminoadipic acid, effect on ventral root potentials in spinal cord, 16, 262

7-Amino-2-(2-amino-6-methylpyrimidin-4-yl)amino-9-paminophenylphenanthridine 10,1'-dimethobromide. See Pyrithidium

p-Amino-N-(5-p-aminophenoxypentyl)benzamide, effect on schistosomes and vision and toxicity of, 14, 468

3-Amino-N-(5-p-aminophenoxypentyl)phthalimide, effect on schistosomes and vision and toxicity of, 14, 468

2-Amino-4-(p-arsenosoanilino)-1,6-dimethylpyrimidinium, synthesis and trypanocidal action of, 13, 244

2-Amino-4-(p-arsonoanilino)-1,6-dimethylpyrimidinium, synthesis and trypanocidal action of, 13, 244

p-Aminobenzamide, effect on trypanocidal action of butarsen, and pK_a value of, 14, 434 , synthesis of, 14, 432

2-(m-Aminobenzenesulphonamido)-5-chloropyrimidine. See Metachloridine

2-p-Aminobenzenesulphonamido-4,6-dimethoxypyrimidine. See Sulphamoprine

p-Aminobenzenesulphonic acid, effect on trypanocidal action of butarsen, 14, 434

o-Aminobenzoic acid, effect on action of various trypanocides, and pKa values of, 14, 433, 434

, effect on oxygen consumption, in rat, 13, 419 m-Aminobenzoic acid, effect on action of various trypanocides, and pK, values of, 14, 433, 434

p-Aminobenzoic acid, effect on action of sulphadimidine with and without 2,4-diamino-6,7-di-isopropylpteridine in experimental Eimeria infection, in chick, **15**, 302

-, effect on action of various trypanocides, and pKa values of, 14, 433, 434

, in-ovo and in-vitro effect on antiviral action of ω-aminoacetophenone derivatives, 13, 408

p-Aminobenzoylglycine, effect on trypanocidal action of butarsen, 14, 434

a-Aminobenzylpenicillin. See Ampicillin

Aminobicyclo[2,2,1]heptane, derivatives of, ganglionblocking action, synthesis and toxicity of, 15, 207

1-(4-Amino-2-bromophenoxy)-3-phenoxypropane, effect on Schistosoma mansoni, 13, 240

4-Aminobutanesulphonic acid, effect on ventral root potentials in spinal cord, 16, 262

3-Amino-ω-butylamino-4-hydroxyacetophenone, in-ovo antiviral action of, 13, 404

3-(2-Aminobutyl)-5-hydroxyindole, response of stomachstrip preparation to, 14, 88

3-(2-Aminobutyl)indole. See Etryptamine

5-(4-Aminobutyl)-2-thiohydantoin, antithyroid action of,

γ-Aminobutyramide, effect on ventral root potentials in spinal cord, **16**, 262

β-Aminobutyric acid, effect on trypanocidal action of butarsen, 14, 434

γ-Aminobutyric acid, antitetanus action of, 25, 74

-, central cardiovascular actions of, 23, 383 -, depression of cortical neurones by, 23, 313

, effect on convulsant action of picrotoxin and strychnine, 22, 324

, effect on response of blood pressure to adrenaline and carotid occlusion, 22, 320

, effect on response of cerebral cortical neurones to

synaptic excitation and L-glutamate, 20, 479

-, effect on response of nictitating membrane to sympathetic stimulation, 22, 320; 23, 386

-, effect on response of phrenic nerve-diaphragm preparation to electrical stimulation, 22, 325

, effect on response of sciatic nerve-tibialis muscle preparation to electrical stimulation, 22, 320

effect on response of small intestine to acetylcholine and transmural stimulation, 22, 325 -, effect on spinal reflexes, 22, 320, 322

-, effect on ventral root potentials in spinal cord, 16, 262

-, in brain, **20,** 457

-, effect of aminooxyacetic acid and γ-butyrolactone on, 20, 566

-, local anaesthetic action of, 22, 324

 γ -Aminobutyric acid (cont.)

, non-specific depressant action on somatic reflexes, **23**, 391

-, response of blood pressure to, 22, 320

-, response of small intestine to, effect of Colisan on.

ε-Aminocaproic acid. See 6-Aminohexanoic acid ω-Aminocaprylic acid. See 8-Amino-octanoic acid

- 2-Amino-7-m-carbamoylphenyldiazoamino-10-ethyl-9phenylphenanthridinium, trypanocidal action of, 17,
- 7-Aminocephalosporanic acid, derivatives of, antibacterial action of, and synergism with other antibiotics,
- 4-Amino-6-chlorobenzene-1,3-disulphonmethylamide, metabolism and mechanism of diuretic action of, 18,
- 2-Amino-6-chlorobenzothiazole, effect in experimental local tetanus, 13, 336
- 6-Amino-5-chloro-2-ethylthiobenzothiazole, amoebicidal and antitubercular actions of, 17, 294
- 6-Amino-5-chloro-2-mercaptobenzothiazole, amoebicidal and antitubercular actions of, 17, 294
- 6-Amino-5-chloro-2-methylthiobenzothiazole, amoebicidal and antitubercular actions of, 17, 294
- 2-Amino-5-chloro-6-nitrobenzothiazole, amoebicidal and antitubercular actions of, 17, 294
- 1-(2-Amino-4-chlorophenylcarbamoylmethyl)-1-methylpiperidinium, effect on influenza virus in tissue culture, properties and synthesis of, 13, 424
- 2-Amino-7-o-chlorophenyldiazoamino-10-ethyl-9-phenylphenanthridinium, trypanocidal action of, 17,
- 2 Amino 4 chloro α piperidinoacetanilide, antiviral action in tissue culture, properties and synthesis of, 13, 424
- p-(2-Amino-6-chloropyriminin-4-ylamino)phenylarsonic acid, properties, synthesis and trypanocidal action of, 13, 244
- p-(2-Amino-6-chloropyrimidin-4-ylamino)phenyloxoarsine, derivatives of, properties, synthesis and trypanocidal action of, 13, 244
- p-Aminocinnamic acid, effect on trypanocidal action of butarsen and pK_a value of, 14, 434 -, synthesis of, 14, 432

- 6-Aminocinnoline, derivatives of, trypanocidal action on normal and drug-resistant trypanosomes, in mouse, 14, 423
- 3-Aminocoumarans, synthesis of, 23, 502, 505
- 2-Amino-p-cresol, in-ovo effect on influenza virus and embryotoxicity of, 13, 406
- 3-Amino-ω-cyclohexylamino-4-hydroxyacetophenone, inovo antiviral action of, 13, 404
- 4-Amino-1-decylquinaldinium, in-vitro cesticidal action of, 24, 240
- 2-Amino-6-dichloroacetamidopurine, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 294
 5-Amino-2,4-dihydroxyacetophenone, derivatives of, in-
- ovo effect on influenza virus, 13, 406
- ω-Amino-2,4- and -3,4-dihydroxyacetophenone, and their derivatives, in-ovo effect on influenza virus, 13, 406
- 5-Amino-2,4-dihydroxybenzoic acid, in-ovo effect on influenza virus, 13, 406
- 5-Amino-2,4-dihydroxy-ω-isopropylaminoacetophenone, in-ovo and in-vitro antiviral action of, 13, 404
- 5-Amino-2,4-dihydroxy- ω -methylaminoacetophenone, in-ovo antiviral action of, 13, 404
- 5-Amino-2,4-dihydroxy-ω-morpholinoacetophenone, inovo antiviral action of, 13, 404

- 5-Amino-2,4-dihydroxy-ω-piperidinoacetophenone, inovo antiviral action of, 13, 404
- 5-Amino-ω-dimethylamino-2,4-dihydroxyacetophenone, in-ovo antiviral action of, 13, 404
- 3-Amino-7-dimethylaminophenosaffranine. See Methylene violet
- 2-Amino-2,3-dimethylbicyclo[2,2,1]heptane, ganglion blocking action, synthesis and toxicity of, 15, 209
- 2-Amino-2,3-dimethylbicyclo[2,2,1]hept-5-ene, ganglionblocking action and synthesis of, 15, 209
- γ-Amino-NN-dimethylbutyric acid, effect on ventral root potentials in spinal cord, 16, 262
- 3-(2-Amino-2,2-dimethylethyl)indole (aa-dimethyltryptamine):
- , central-stimulant action of, effect of monoamineoxidase inhibitors on, in mouse, 24, 55
- -, effect of pargyline on, in mouse, 24, 56 , central stimulant and monoamine-oxidase-inhibitory actions of, 24, 49
- effect on action of 5-hydroxytryptophan on 5hydroxytryptamine in brain, 24, 61
- , in-vivo effect on action of 5-hydroxytryptophan on 5-hydroxytryptamine in brain and heart, 19, 164
 - , in-vivo effect on action of iproniazid and Ro 4-1284 on 5-hydroxytryptamine in brain, 19, 166
- -, in-vivo effect on 5-hydroxytryptamine in brain, 19, 162
- -, effect on hypothermic, sedative and other pharmacological actions of reserpine, in mouse, 24,
- -, effect on induction of tremors by 5-hydroxytryptophan, in mouse, 24, 54
- effect on monoamine oxidases and on uptake of 5-hydroxytryptamine by blood platelets, 24, 68
- effect on uptake of 5-hydroxytryptamine by blood platelets, in mouse, 24, 73
- -, inhibition of monoamine oxidases by, 24, 52
- , response of stomach-strip preparation to, 14, 88 2-Amino-1,6-dimethyl-4-(p-5-phthalimidopentoxyphenyl)pyrimidinium, effect on schistosomes and vision and toxicity of, 14, 468
- 3-(2-Amino-1,1-dimethylpropyl)indole (ααβ-trimethyltryptamine):
- , effect on monoamine oxidases and on uptake of 5-hydroxytryptamine by blood platelets, 24, 68
- , effect on uptake of 5-hydroxytryptamine by blood platelets, in mouse, 24, 73
- 4-(2-Amino-4,6-dimethylpyrimidin-5-ylamino)-3-nitrophenylarsonic acid, synthesis and trypanocidal action of, 13, 244
- 4-Amino-1-dodecylquinaldinium. See Laurolinium
- o-(2-Aminoethyl)benzylamine, effect on enzymic oxidation of cadaverine, 14, 365 enzymic oxidation of, 14, 365
- 3-(2-Aminoethyl)-1-benzylindole (N-benzyltryptamine):
- , metabolism, pharmacological actions, synthesis and toxicity of, 23, 43
- 3-(2-Aminoethyl)-1-benzyl-5-methoxy-2-methylindole (1benzyl-5-methoxy-2-methyltryptamine):
 - effect on head-twitch response to 5-hydroxytryptophan, in mouse, 20, 113
- effect on induction of oedema by compound 48/80, dextran, eggwhite, histamine and 5-hydroxytryptamine, in rat hindpaw, 13, 66
- , effect on response of blood pressure to acetylcholine, adenosine, adrenaline, 5-hydroxytryptamine, isoprenaline and noradrenaline, in rat, 15, 136
- neurone-depressant action of, 18, 230 3-(2-Aminoethyl)-1-p-chlorobenzylindole
- (N-p-chlorobenzyltryptamine):

- 3-(2-Aminoethyl)-1-p-chlorobenzylindole (cont.)
 - , metabolism, pharmacological actions, synthesis and toxicity of, 23, 43
- 3-(2-Aminoethyl)-5-chloroindole, response of stomachstrip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- 3-(2-Aminoethyl)-5-chloro-2-methylindole (5-chloro-2methyltryptamine):
- response of *Tapes* heart to, **25**, 490
- 3-(2-Aminoethyl)-5,6-dimethoxyindole (5,6-dimethoxytryptamine):
- , response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- , response of *Tapes* heart to, 25, 490 2-Amino-10-ethyl-7-m- and -p-guanidinoiminomethyl-phenyldiazoamino-9-phenylphenanthridinium, trypanocidal action and toxicity of, 17, 396
- 2-Amino-10-ethyl-7-m-guanidinophenyldiazoamino-9phenylphenanthridinium, trypanocidal action and toxicity of, 17, 396
- 3-(2-Aminoethyl)-4-, -5- and -6-hydroxyindole. See 4-, 5- and 6-Hydroxytryptamine
- 3-(2-Aminoethyl)-5-hydroxy-2-methylindole (5-hydroxy-2-methyltryptamine):
- response of Venus heart to, 15, 377
- 3-(2-Aminoethyl)indole. See Tryptamine
- 2-Aminoethylmalonic acid, effect on ventral root potentials in spinal cord, 16, 262
- 3-(2-Aminoethyl)-4-methoxyindole (4-methoxytryptamine):
- , effect on response of cerebral cortical neurones to L-glutamate and synaptic excitation, 20, 471
- 3-(2-Aminoethyl)-4-methoxyindole, neurone-depressant action of 18, 230
- 3-(2-Aminoethyl)-5-methoxyindole (5-methoxytryptamine):
- -, effect on response of cerebral cortical neurones to L-glutamate and synaptic excitation, 20, 471
- --, neurone-depressant action of, 18, 230
- -, response of blood pressure to, and effect of iproniazid and pheniprazine (phenylisopropylhydrazine) on, 14, 93
- response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- -, response of stomach-strip preparation and uterus to, 14, 265
- , response of *Tapes* heart to, 25, 490
- 3-(2-Aminoethyl)-6-methoxyindole (6-methoxytryptamine):
- response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88 , response of Tapes heart to, 25, 490
- 5-Amino-3-ethyl-2-methylindole, reurone-depressant action of, 18, 230
- 3-(2-Aminoethyl)-5-methylindole (5-methyltryptamine): enzymic oxidation by stomach homogenate, and
- inhibition by iproniazid, 14, 89 , response of stomach-strip preparation to, and
- effect of amine-oxidase inhibitors on, 14, 88 effect of 2-bromolysergic acid diethylamide on, 14, 270
- , response of stomach-strip preparation and uterus to, 14, 265
- 2-Amino-10-ethyl-7-m-nitrophenyldiazoamino-9-phenylphenanthridinium, trypanocidal action of, 17,
- 2-Amino-10-ethyl-9-phenyl-7-m-sulphamoylphenyldiazoaminophenanthridinium, trypanocidal action of, 17.
- α-Amino-γ-(ethylthio)butyric acid. See Ethionine

- β -Aminoglutaric acid, effect on ventral root potentials in spinal cord, 16, 262
- a-Aminoglutarimide, chromatography of, 25, 329
 - -, extraction from urine, 25, 340
- -, hydrolysis in aqueous solution, 25, 332
- -, metabolism of, in rabbit, 25, 343
- , sedative action of, 25, 358
- Aminoguanidine, effect on action of chlorpromazine and iproniazid on histamine-induced acid gastric secretion, in rat, 22, 522
- , effect on action of choline esters and histamine on acid gastric secretion, in rat, 13, 59
- -, effect on action of parenteral gastrin on acid gastric secretion, in rat, 23, 481
- -, effect on catabolism of histamine, in man, 15, 351 -, effect on decarboxylation of histidine, in normal and scorbutic guinea-pigs, 24, 729
- -, effect on ganglionic and neuromuscular blockade,
- , effect on histamine-induced acid gastric secretion, and action of iproniazid, in rat, 22, 522
- -, effect on inflammation, in mouse foot, 18, 351 , effect on in-vitro metabolism of histamine by
- lung, 24, 150 , effect on removal from blood and urinary excretion
- of intravenous histamine, in dog, 13, 46 -, effect on response of small intestine to histamine, 16, 151
- , effect on response of tracheal-chain preparation to
- histamine, 16, 150 -, effect on urinary excretion of histamine, in rat, 16,
- , in intact, castrated and testosterone-treated
- male and female rats, 19, 67 -, in scorbutic guinea-pig, 24, 726
- -, effect on urinary excretion of histamine and its metabolites, in male and female rats, 13, 498
- 7-Aminoheptanoic acid, effect on ventral root potentials in spinal cord, **16**, 262
- 4-Amino-1-heptylquinaldinium, in-vitro cesticidal action of, **24**, 240
- 4-Amino-1-hexadecylquinaldinium, in-vitro effect on Hymenolepis nana, 24, 240
- 6-Aminohexanoic acid (ε-aminocaproic acid):
- -, depression of cortical hormones by, 23, 313
- , effect on ventral root potentials in spinal cord, 16, 262
- p-Aminohippuric acid, renal extraction and excretion of. effect of polythene catheter in renal artery on, 13, 90
- p-Aminohippuric acid clearance, effect of noradrenaline infusion on, action of hexamethonium and phenoxybenzamine, in dog, 14, 382
- effect of veratridine on, in conscious rat, 14, 77 ω-Amino-p-hydroxyacetophenone, and its derivatives, in-ovo effect on influenza virus, 13, 406
- 3-Amino-4-hydroxybenzaldehyde, in-ovo effect on influenza virus, 13, 406
- 3-Amino-4-hydroxybenzenesulphonic acid, in-ovo effect on influenza virus, 13, 406
- 3-Amino-4-hydroxybenzoic acid, effect on in-ovo and in-vitro antiviral action of ω-aminoacetophenone derivatives, 13, 408
- in-ovo effect on influenza virus, 13, 406
- γ -Amino- β -hydroxybutyric acid, depression of cortical neurones by, 23, 313
- -, effect on action of reserpine on body temperature and 5-hydroxytryptamine and noradrenaline in brain, 24, 463
- , effect on body temperature and 5-hydroxytryptamine and noradrenaline in brain, 24, 462

3-Amino-4-hydroxy- ω -ethylaminoacetophenone, in-ovo, antiviral action of, 13, 404

3-Amino-4-hydroxy-ω-isobutylaminoacetophenone, inovo antiviral action of, 13, 404

3-Amino-4-hydroxy-ω-methylaminoacetophenone, in-ovo and in-vitro antiviral action of, and effect of reducing substances on, 13, 404

ω-Amino-4-hydroxy-3-nitroacetophenone, and its derivatives, in-ovo effect on influenza virus, 13, 406

3-Amino-4-hydroxy-ω-(4-phenylbut-2-ylamino)acetophenone, in-ovo antiviral action of, 13, 404

3-Amino-4-hydroxy-ω-piperidinopropiophenone, in-ovo and in-vitro effect on influenza virus, 13, 408

N-(4-Amino-6-hydroxypyrimidin-5-yl)dichloroacetamide, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 294

2-Aminohydroxyquinone, in-ovo effect on influenza virus and embryotoxicity of, 13, 406

5-Amino-2-hydroxy-ω-t-butylaminoacetophenone, in-ovo antiviral action of, 13, 404

4-Amino-3-hydroxy-ω-t-butylaminoacetophenone, in-ovo antiviral action of, 13, 404

3-Amino-4-hydroxy-ω-t-butylaminoacetophenone, in-ovo and in-vitro antiviral action of, and effect of reducing substances on, 13, 404

—, effect in experimental influenza, 13, 409 α-Amino-β-indol-3-ylpropionic acid. See Tryptophan

5-Aminoisatin β -thiosemicarbazone, antiviral action, properties and synthesis of, 15, 101

DL-a-Aminoisobutyric acid, effect on ventral root potentials in spinal cord, 16, 262

Aminoisometradine, diuretic action of, effect of acetazolamide, chlorothiazide, mersalyl and saline loading on, in rat, 14, 368

Aminomalonic acid, effect on ventral root potentials in spinal cord, 16, 262

Aminomethanesulphonic acid, effect on ventral root potentials in spinal cord, 16, 262

3-Amino-4-methoxy- ω -methylaminoacetophenone, inovo effect on influenza virus, 13, 406

N-5-(4-Amino-2-methoxyphenoxy)pentyl-aa-dichloroacetamide, effect on Entamoeba histolytica, 18, 131

3-Amino-4-methoxy-ω-t-butylaminoacetophenone, in-ovo effect on influenza virus, 13, 406

p-(2-Amino-6-methylaminopyrimidin-4-ylamino)phenylarsonic acid, properties, synthesis and trypanocidal action of, 13, 244

p-(2-Amino-6-methylaminopyrimidin-4-ylamino)phenyloxoarsine, properties, synthesis and trypanocidal action of, 13, 244

p-(6-Amino-2-methylaminopyrimidin-4-ylamino)phenyloxoarsine, properties, synthesis and trypanocidal action of, 13, 244

p-Aminomethylbenzoic acid, effect on trypanocidal action of butarsen, 14, 434

2-Amino-4-methylbenzothiazole, antitetanus action of, 25, 74

2-Amino-6-methylbenzothiazole, antitetanus action of, 17, 507

, effect in experimental local tetanus, 13, 336

γ-Amino-N-methylbutyric acid, effect on ventral root potentials in spinal cord, 16, 262

3-Amino-5-, -6- and -7-methylcoumaran, effect on adrenergic neurone transmission, 23, 497

—, synthesis of, 23, 501 6-Amino-2-methylheptan-2-ol. See Heptaminol 3-Aminomethylindole. See Indolemethylamine

1-p-Aminomethylphenoxy-5-p'- aminophenoxypentane, effect on Schistosoma mansoni and toxicity of, 13, N-[5-p-(2-Amino-6-methylpyrimidin-4-ylamino)phenoxypentyl]phthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468

p-(2-Amino-6-methylpyrimidin-4-ylamino)phenylarsonic acid, properties, synthesis and trypanocidal action

of, 13, 244

p-2-Amino-6-methylpyrimidin-4 - ylamino) phenyloxo arsine, and its derivatives, properties, synthesis and trypanocidal action of, 13, 244

DL-2-Aminomethylsuccinic acid, effect on ventral root potentials in spinal cord, 16, 262

4-Amino-2-morpholino-1,3,5-triazine, [14C]-labelled, synthesis of, 24, 274

, oral, distribution in body fluids and tissues, in experimental virus infections, in mouse, 24, 274

2-Aminonicotinic acid, effect on cutaneous response to thurfyl nicotinate and ultraviolet light, in guinea-pig, 21, 107

N-Amino-N'-nitroguanidine, effect on ganglionic and neuromuscular blockade, 19, 414

2-Amino-4-nitrophenol, effect on body temperature, carbon dioxide output and oxygen consumption, in rat, 13, 26

4-Amino-2-nitrophenol, effect on body temperature, carbon dioxide output and oxygen consumption, in rat, 13, 26

9-Aminononanoic acid, effect on ventral root potentials in spinal cord, 16, 262 4-Amino-1-nonylquinaldinium, in-vitro cesticidal action

of, **24**, 240

4-Amino-1-octadecylquinaldinium, in-vitro effect on Hymenolepis nana, 24, 240 8-Amino-octanoic acid (ω -aminocaprylic acid):

-, effect on cortical neurones, 23, 313

, effect on ventral root potentials in spinal cord, 16, 262

4-Amino-1-octylquinaldinium, in-vitro cesticidal action of, 24, 240 a-Amino-oxyacetic acid, antibacterial action of, 15, 243

, effect on γ -aminobutyric acid in brain, 20, 566

a-Amino-oxyacids, antimicrobial action of, 15, 243 a-Amino-oxybutyric acid, antibacterial action of, 15, 243

2-Amino-oxy-6-cyclohexylhexanoic acid, antibacterial action of, 15, 243

a-Amino-oxydecanohydrazide, antibacterial action of, **15**, 243

2-Amino-oxydecanoic acid, antibacterial action of, 15, 243

a-Amino-oxydodecanohydrazide, antibacterial action of,

15, 243 2-Amino-oxydodecanoic acid, antibacterial action of, 15.

243 2-Amino-oxyheptanoic acid, antibacterial action of, 15,

2-Amino-oxyhexanoic acid, antibacterial action of, 15.

243

α-Amino-oxyhydrazides, antimicrobial action of, 15, 243 α-Amino-oxy-β-methylbutyric acid, antibacterial action of, **15**, 243

- Amino - oxy - α - methylpropionic acid, antibacterial action of, 15, 243

a-Amino-oxynonanohydrazide, antibacterial action of. **15**, 243

2-Amino-oxynonanoic acid, antibacterial action of, 15, 243 a-Amino-oxyoctanohydrazide, antibacterial action of, **15**, 243

2-Amino-oxyoctanoic acid, antibacterial action of, 15. 243

a-Amino-oxypropionic acid, antibacterial action of, 15.

- a-Amino-oxytetradecanohydrazide, antibacterial action of, 15, 243
- 2-Amino-oxytetradecanoic acid, antibacterial action of, 15, 243
- a-Amino-oxyvaleric acid, antibacterial action of, 15, 243
 6-Aminopenicillanic acid, derivatives of, excretion in bile,
 17, 420
- —, —, oral and parenteral, distribution and excretion of, 17, 414
- p-Aminophenol, effect on eye and Schistosoma mansoni and toxicity of, 13, 242
- —, in-ovo effect on influenza virus and embryotoxicity of, 13, 406
- —, effect on trypanocidal action of butarsen, 14, 434 p-Aminophenoxyacetamide, effect on Schistosoma mansoni and toxicity of, 13, 242
- p-Aminophenoxyacetic acid, effect on Schistosoma mansoni and toxicity of, 13, 242
- N-(ω-p-Aminophenoxyalkyl) amides, schistosomicidal action, retinotoxicity and other toxic effects of, 14, 467
- 3 p Aminophenoxy N p' aminophenylpropylamine, effect on Schistosoma mansoni, 13, 239
- 1-p-Aminophenoxy-5-p'-benzamidophenoxypentane, schistosomicidal action and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-benzyloxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- N-(4-p-Aminophenoxybutyl)benzamide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(4-p-Aminophenoxybutyl)phthalimide, effect on eye and schistosomes and toxicity of, 14, 468
- 1-p-Aminophenoxy-5-p'-chlorophenoxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-cyclohexyloxypentane, effect or Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxydecane, effect on eye and Schistosoma mansoni and toxicity of, 13, 242
- N-(10-p-Aminophenoxydecyl)phthalimide, effect on eye and schistosomes and toxicity of, 14, 468
- 1-p-Aminophenoxy-5-(4-diphenylyloxy)pentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-ethoxypentane, effect on Schistosoma mansoni, retinotoxicity and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-ethoxyphenoxypentane, effect on eye, schistosomicidal action and toxicity of, 13, 241 N-(2-p-Aminophenoxyethyl)phthalimide, effect on eye
- N-(2-p-Aminophenoxyetny))prinaiming, effect on eye and schistosomes and toxicity of, 14, 468
- N-(7-p-Aminophenoxyheptyl)phthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468 1-p-Aminophenoxyhexane, effect on Schistosoma man-
- soni, retinotoxicity and toxicity of, 13, 242 6-p-Aminophenoxyhexanoic acid, effect on Schistosoma mansoni and toxicity of, 13, 242
- N-(6-p-Aminophenoxyhex-3-enyl)phthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14,
- N-(6-p-Aminophenoxyhexyl)phthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 1-p-Aminophenoxy-5-p'-hydroxyacetamidophenoxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-(2-hydroxyethoxy)pentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-hydroxyphenoxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-methanesulphonamidophenoxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-(2-methoxyethoxy)pentane, effect on Schistosoma mansoni and toxicity of, 13, 241

- 1-p-Aminophenoxy-5-methoxypentane, schistosomicidal action and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-methoxyphenoxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- 1-p-Aminophenoxy-3-methoxypropane, schistosomicidal action and toxicity of, 13, 241
- N-(5-p-Aminophenoxy-3-methylpentyl)phthalimide, effect on schistosomes, 14, 469
- 1-p-Aminophenoxy-5-naphth-1'- and -2'-yloxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-nitrophenoxypentane, effect on eye, schistosomicidal action and toxicity of, 13, 241
- N-(9-p-Aminophenoxynonyl)phthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(8-p-Aminophenoxyoctyl)benzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(8-p-Aminophenoxyoctyl) phthalimidé, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 5-p-Aminophenoxypentan-1-ol, effect on Schistosoma mansoni and toxicity of, 13, 242
- p-5-(p-Aminophenoxy)pentoxybenzoic acid, effect on Schistosoma mansoni and toxicity of, 13, 241
- N-(5-p-Aminophenoxypentyl)acetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 5-p-Aminophenoxypentylamine, effect on eye and schistosomes, 14, 467
- p-5-(p-Aminophenoxy) pentylaniline, schistosomicidal action, retinotoxicity and toxicity of, 13, 239
- N-(5-p-Aminophenoxypentyl)-o-, -m- and -p-anisamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 1-(5-p-Aminophenoxypentyl)barbituric acid, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)benzamide, absorption and excretion of, 14, 474
- —, schistosomicidal action, retinotoxicity and other toxic effects of, 14, 467
- N-(5-p-Aminophenoxypentyl)-o-benzoicsulphimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-N-benzyloxybenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-p-bromobenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- (±)-N-(5-p-Aminophenoxypentyl)camphorimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- o-(5-p-Aminophenoxypentylcarbamoyl) benzoic acid, schistosomicidal action, retinotoxicity and toxicity of, 14,468
- p-(5-p-Aminophenoxypentylcarbamoyl) benzoic acid, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-p-chlorobenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- $N-(5-p-Aminophenoxypentyl)-\alpha-(p-chlorophenoxy)$ -acetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N (5-p-Aminophenoxypentyl)cinnamamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N (5-p-Aminophenoxypentyl)-a-cyanoacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)cyclohexanecarboxyamide, effect on eye and schistosomes and toxicity of, 14, 468

N-(5-p-Aminophenoxypentyl)cyclohexane-1,2-dicarboxyimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468

(5-p-Aminophenoxypentyl)cyclohexylamine, effect on eye

and schistosomes, 14, 467

- N-(5-p-Aminophenoxypentyl)-N-cyclohexylbenzamide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)diacetylamine, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)dibenzoylamine, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl) a a dichloroacetamide, effect on Entamoeba histolytica, 18, 131 —— schistosomicidal action, retinotoxicity and toxicity
- —, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-α-(2,4-dichlorophenoxy)acetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 3-(5-p-Aminophenoxypentyl)-3,4-dihydro-2H-5,6-benz-1,3 - oxazine - 2,4 - dione, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-2,3-dihydro-3-oxo-4,5benzisothiazole, effect on eye and schistosomes and toxicity of, 14, 468
- 1-(5-p-Aminophenoxypentyl)-1,2-dihydropyridin-2-one, effect on eye and schistosomes and toxicity of, 14, 468
- (5-p-Aminophenoxypentyl)dimethylamine, effect on eye and schistosomes, 14, 467
- N-(5-p-Aminophenoxypentyl)- $\alpha \alpha$ -diphenylacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 1-(5-p-Aminophenoxypentyl)-3-p-ethoxyphenylthiourea, effect on schistosomes, 14, 469
- N-(5-p-Aminophenoxypentyl)-β-ethyl-β-methylglutarimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl) formamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl) furoylamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)glutarimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 1-(5-p-Aminophenoxypentyl)hexahydropyrimidine-2,4,6trione, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)hexanecarboxyamide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)hippuramide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)homophthalimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-N-hydroxybenzamide, effect on eye and schistosomes and toxicity of, 14,
- N-(5-p-Aminophenoxypentyl)-o- and -p-hydroxybenzamide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)maleimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-N-methylbenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-α-naphthylamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-p-nitrobenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468

- N-(5-p-Aminophenoxypentyl)-3-nitrophthalimide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)pantothenamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl) α -phenoxyacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-α-phenylacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-N-phenylacetamide, effect on schistosomes, 14, 469
- N-(5-p-Aminophenoxypentyl)-N-phenylbenzamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-α-phenylvaleramide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)phthalamidine, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)phthalimide, absorption and excretion of, 14, 474
- —, schistosomicidal action, retinotoxicity and other toxic effects of, 14, 467
- N-(5-p-Aminophenoxypentyl)-α-phthalimidoacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 1-(5-p-Aminophenoxypentyl)piperidin-2-one, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)proprionamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N'-(5-p-Aminophenoxypentyl)pyridine-3- and -4-carboxyamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)succinimide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl) tetrachlorophthalimide, effect on schistosomes, 14, 469
- 1-(5-p-Aminophenoxypentyl)-1,2,5,6-tetrahydro-3,4-benzopyridine-2,6-dione, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)thenoylamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-p-toluamide, effect on eye and schistosomes and toxicity of, 14, 468
- N-(5-p-Aminophenoxypentyl)-aaa-trichloroacetamide, schistosomicidal action, retinotoxicity and toxicity of, 14, 468
- 5-p-Aminophenoxypentylurea, effect on eye and schistosomes and toxicity of, 14, 468
- a-(Aminophenoxy)-\(\omega\)-phenoxyalkanes, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-phenoxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p-phenoxyphenoxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-3-phenoxypropane, schistosomicidal action of, 13, 241
- α-p-Aminophenoxy-ω-phenylalkanes, substituted, schistosomicidal action of, 13, 242
 N-(5-p-Aminophenoxy-1-phenylpentyl)benzamide, effect
- on schistosomes, 14, 469 N-(5-p-Aminophenoxy-1-phenylpentyl) phthalimide,
- effect on schistosomes, 14, 469
- 1-p-Aminophenoxy-5-(2-phthalimidoethyl)pentane, schistosomicidal action and toxicity of, 13, 241
- 3-p-Aminophenoxypropan-1-ol, effect on Schistosoma mansoni and toxicity of, 13, 242
- 1-p-Aminophenoxy-5-p'-propionamidophenoxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241

- 1-p-Aminophenoxy-5-propoxypentane, schistosomicidal action, retinotoxicity and toxicity of, 13, 241
- 3-p-Aminophenoxypropyl acetate, effect on Schistosoma
- mansoni and toxicity of, 13, 242 N-(3-p-Aminophenoxypropyl)phthalimide, effect on eye and schistosomes and toxicity of, 14, 468
- 1-p-Aminophenoxy-5-pyrid-2'-yloxypentane, schistoso-
- micidal action and toxicity of, 13, 241
 1-p-Aminophenoxy-5-quinol-6'-yloxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- 1-p-Aminophenoxy-5-p'-tolyloxypentane, effect on Schistosoma mansoni and toxicity of, 13, 241
- δ.p-Aminophenoxyvaleramide, effect on Schistosoma mansoni and toxicity of, 13, 242
- δ-p-Aminophenoxyvaleric acid, effect on Schistosoma mansoni and toxicity of, 13, 242
- p-Aminophenyl succinate, effect on Schistosoma mansoni, **13**, 239
- D(-)-6-(α -Amino- α -phenylacetamido)penicillanic acid. See Ampicillin
- L(+)-6-(α -Amino- α -phenylacetamido)penicillanic acid. oral and parenteral, excretion in bile, 17, 420 p-Aminophenylacetic acid, effect on trypanocidal action
- of butarsen, and pKa values of, 14, 434
- p-Aminophenylarsonate, effect on trypanocidal action of butarsen, 14, 434 γ -(p-Aminophenyl)butyric acid, effect on trypanocidal
- action of butarsen, and pK, value of, 14, 434 2-Amino-1-phenylethanol. See Phenylethanolamine
- β -(p-Aminophenyl)propionic acid, effect on trypanocidal action of butarsen, and pK₃ value of, 14, 434 2-Amino-5-phenyl-1,3,4-thiadiazole, chemical and physi-
- cal properties, pharmacological actions and toxicity of, 13, 357
- Aminophylline, bronchodilator and coronary dilator actions and toxicity of, 17, 197
- , effect on response of small intestine to staphylococcal a-toxin, 14, 63
- -, effect on response of stomach strip to 5-hydroxy-tryptamine, 22, 208
- -, response of heart beat to, and effect of bath-potassium and -sodium concentrations on, 23, 75
- response of trachea to, 19, 291 m-Aminophenyltriethylammonium, effect on response of popliteal nerve-gastrocnemius preparation to elec-
- trical stimulation, 24, 232 DL-α-Aminopimelic acid, effect on ventral root potentials
- in spinal cord, 16, 262 6-Amino-α-piperidinoaceto-3,4-xylidide, effect on influenza virus in tissue culture, properties and synthesis of, 13, 424
- 2-Aminopropane-1-sulphonic acid, effect on ventral root
- potentials in spinal cord, 16, 262 3-Aminopropane-1 sulphonic acid, depression of cortical neurones by, 23, 313
- 3-(2-Aminopropyl)-5-benzyloxyindole, effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 267
- , response of stomach-strip preparation and uterus to, 14, 265
- 3-(2-Aminopropyl)-6-chloroindole (6-chloro-a-methyltryptamine):
- -, central action of, in chick, 25, 705
- -, effect of methysergide on, in chick, 25, 714
- 3-(2-Aminopropyl)-4-hydroxyindole (4-hydroxy-amethyltryptamine):
- neurone-depressant action of, 18, 230
- 3-(2-Aminopropyl)-5-hydroxyindole (5-hydroxy-a-methyltryptamine):

- 3-(2-Aminopropyl)-5-hydroxyindole (cont.)
 - , enzymic oxidation by stomach homogenate, and inhibition by iproniazid, 14, 89
- , response of lysergide- (lysergic acid diethylamide-), morphine- and phenoxybenzamine-treated small intestine to, 14, 557
- , response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- response of stomach-strip preparation and uterus to, 14, 265
- , response of Venus heart to, 15, 377 uptake by blood platelets, 24, 70
- 3-(2-Aminopropyl)indole (a-methyltryptamine):
 - , central stimulant action of, effect of aromaticaminoacid-decarboxylase inhibitors on, in mouse, 24, 57
 - , effect of monoamine-oxidase inhibitors on, in mouse, 24, 55
- , effect of pargyline on, in mouse, 24, 56
 - central stimulant and monoamine-oxidase-
 - inhibitory actions and toxicity of, 24, 49

 -, effect on action of 5-hydroxytryptophan on 5-hydroxytryptamine in brain, 24, 61
- effect on action of 5-hydroxytryptophan on 5hydroxytryptamine in brain and heart, 19, 164
- -, effect on action of iproniazid and Ro 4-1284 on 5-hydroxytryptamine in brain, 19, 166
- , effect on head-twitch response to 5-hydroxytryptophan, in mouse, 20, 110
- , effect on 5-hydroxytryptamine in brain, 19, 162; 24, 62
- , effect on hypothermic, sedative and other pharmacological actions of reserpine, in mouse, 24, 52
- effect on induction of tremors by 5-hydroxytryptophan, in mouse, 24, 54
 - , effect on monoamine oxidases, 24, 52, 68
- , effect on response of nictitating membrane to
- nerve stimulation, 21, 92 effect on response of stomach-strip preparation to
- 5-hydroxytryptamine and tryptamine, 14, 99 effect on response of uterus to acetylcholine, 5-
- hydroxytryptamine and tryptamine, 14, 99 , effect on uptake of 5-hydroxytryptamine by blood
- platelets, 24, 68, 73
- -, neurone-depressant action of, 18, 230
- , response of blood pressure to, tachyphylaxis of, and effect of nialamide on, 21, 86, 88, 90
- , response of heart beat and spleen to, tachyphylaxis of, and effect of nialamide on, 21, 92
- -, response of lysergide- (lysergic acid diethylamide-), morphine- and phenoxybenzamine-treated small intestine to, 14, 557
- -, response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- , response of stomach-strip preparation and uterus to, 14, 99
 - , response of Venus heart to, 15, 377
- (+)-3-(2-Aminopropyl)indole [(+)- α -methyltryptamine]: , effect on behaviour and cerebral electrical activity, and action of adrenalectomy, adrenaline, amphetamine, atropine, bromolysergic acid, chlorpromazine and physostigmine, in cat, 24, 659
 - , central action of, in chick, 25, 705
- -, in fowl, 25, 717
- , and effect of chlorpheniramine, Hydergine, hyoscine, (\pm) - α -methylnoradrenaline, methysergide and phenoxybenzamine on, in chick, **25**, 682
- , effect of (+)-m-methoxy- α -methylphenethylamine on, in chick, 25, 712 -, effect of pronethalol on, in chick, 25, 715

(+)-3-(2-Aminopropyl)indole (cont.)

, effect on central action of (\pm) -a-methylnoradrenaline, in chick, 25, 695

toxicity of, in chick, 25, 699

(-)-3-(2-Aminopropyl)indole [(-)-a-methyltryptamine]:
-, central action of, in chick, 25, 694, 705

, effect on behaviour and cerebral electrical activity, and action of adrenalectomy, adrenaline, amphetamine, atropine, bromolysergic acid, chlorpromazine and physostigmine, in cat, 24, 659

, effect on central action of (\pm) -a-methylnoradrenaline, in chick, 25, 695

- 3-(3-Aminopropyl)indole, response of stomach-strip preparation to, and effect of amine-oxidase inhibitors
- 3-(2-Aminopropyl)-5-methoxyindole, effect on behaviour and cerebral electrical activity, in cat, 24, 659

-, pK value of, **14**, 91

- , response of stomach-strip preparation to, and effect of amine-oxidase inhibitors on, 14, 88
- -, response of stomach-strip preparation and uterus to, 14, 265
- 3 (2 Aminopropyl) 6 methoxyindole (6 methoxy α methyltryptamine):
- -, central action of, in chick, 25, 705

-, in fowl, 25, 716

- -, effect of m-methoxy- α -methylphenethylamine on, in chick, 25, 712
- , effect of methysergide on, in chick, 25, 712,
- 3-(2-Aminoethyl)-5-methoxy-2-methylindole, effect on oedema induced by compound 48/80, dextran, eggwhite, histamine and 5-hydroxytryptamine, in rat hindpaw, 13, 66

, response of Venus heart to, 15, 377

- 3-(2-Aminopropyl)-1-methylindole, effect on response of uterus to 5-hydroxytryptamine, 14, 268
- , response of stomach-strip preparation and uterus to, 14, 265
- 3-(2-Aminopropyl)-4-methylindole (4, a-dimethyltryptamine):
- , neurone-depressant action of, 18, 230
- 3-(2-Aminopropyl)-5-methylindole (5, a-dimethyltrypt-
- , response of stomach-strip preparation and uterus to, 14, 265

Aminopyrine. See Amidopyrine

- p-(2-Aminopyrimidin-4-ylamino)phenylarsonic acid, properties, synthesis and trypanocidal action of, 13, 244
- p-(2-Aminopyrimidin-4-ylamino)phenyloxoarsine, Aminopyrimidin-4-ylamino)phenyloxoarsine, properties, synthesis and trypanocidal action of, 13, 244
- 6-Aminoquinoline, derivatives of, trypanocidal action on normal and drug-resistant trypanosomes, in mouse, **14**, 423
- 8-Aminoquinoline, derivatives of, effect on Theileria annulata in tissue culture, 13, 459
- 4-Aminoresorcinol, in-ovo effect on influenza virus and
- embryotoxicity of, 13, 406
 Aminosalicylic acid, in serum, after administration of various preparations, kinetics of, in man, 23, 1
- p-Aminosalicylic acid, effect on free fatty acids in plasma, in rat, 25, 190
- 5-Aminosalicylic acid, effect on oxygen consumption, in rat, 13, 419
- DL-a-Aminosebacic acid, effect on ventral root potentials in spinal cord, 16, 262
- L- α -Amino- β -sulphinopropionic acid, effect on ventral root potentials in spinal cord, 16, 262
- 4-Amino-1-tetradecylquinaldinium, in-vitro cesticidal action of, 24, 240

- 2-Amino-5-thien-2'-yl-1,3,4-thiadiazole, chemical and physical properties, pharmacological actions and toxicity of, **13**, 357
- 3-Amino-1,1,3-triphenylpropan-1-ol, hyperexcitability and tremor induced by, in mouse, 14, 353
- 4-Amino-1-undecylquinaldinium, in-vitro cesticidal action of, 24, 240
- δ-Aminovaleric acid, effect on ventral root potentials in spinal cord, 16, 262
- Amiphenazole, effect on ganglionic transmission, in cat, **23**, 250
- Amitriptyline, effect in various tests involving autonomic functions and reserpine antagonism, comparison with chlorpromazine, imipramine and other drugs, 23, 330
- , effect on adenine nucleotides, inorganic phosphate and phosphocreatine in brain, 20, 462
- , effect on head-twitch response to 5-hydroxytryptophan and on pinna reflex, in mouse, 20, 113
- , effect on hypothermia and tremor induced by Tremorine, 25, 447, 450 , effect on response of small intestine to bradykinin,
- -, effect on toxicity of yohimbine, 21, 55, 56
- -, response of body temperature to, effect of monoamine-oxidase inhibitors on, in rabbit, 25, 161 , toxicity of, in rabbit, 25, 164
- Ammeline, effect on trypanocidal action of organic arsenicals and pentamidine, 14, 436
- Ammonia, response of Venus heart to, 15, 368
- Ammonium compounds, quaternary. See Quaternary ammonium compounds
- Amnion, chick, cholinesterase in, effect of atropine on, 21, 291
- -, —, effect of dyflos and mipafox on, 18, 558 -, oxygen consumption of, and effect of atropine, dinitrophenol and Hanks solution on, 21,
- -, response to acetylcholine, carbachol, methacholine and physostigmine, and effect of atropine on, 21, 286
- response to atropine, and effect of dinitrophenol, lignocaine and veratrum alkaloids on, 21, 287
- response to atropine methonitrate, N-butylatropinium bromide, dinitrophenol, homatropine, hyoscine, lachesine, lignocaine, propantheline and veratrum alkaloids, 21, 287
- -, response to electrical and mechanical stimulation, effect of atropine on, 21, 290
 - , response to potassium-excess, and effect of atropine on, 21, 289
- -, response to veratrum alkaloids, and effect of atropine on, 21, 287
- -, smooth muscle of, response to anticholinesterases, 18, 550
- Amniotic fluid, localization of bemegride in, 14, 36 , localization of methylpentynol and its carbamate
- in, in cat, 13, 368
- , localization of pempidine in, in rat, 14, 205 Amodiaquine, effect on bronchoconstrictor action of
- bradykinin, 15, 601 , effect on bronchoconstrictor action of bradykinin and slow-reacting substance produced in anaphyl-
- axis, 23, 209

 Amoebiasis, hepatic, effect of chloroquine, diloxanide and its esters and analogues, emetine, and some
- anilides in, in hamsters, 14, 490 , induction of, in guinea-pig, hamster and rat, 14, 488

Amoebicidal action, of chloroquine and emetine, 14, 490 Amphetamine (cont.) -, of Colisan, and effect of bradykinin on, 18, 303 effect on uptake of 5-hydroxytryptamine by blood platelets, 16, 291 , of diloxanide and other dichloroacetamide deriva-, effect on uptake of noradrenaline by heart at high tives and related compounds, 17, 286; 18, 128 and low perfusion concentrations, 25, 34 Amopyroquin, effect on bronchoconstrictor action of , hyperthermic action and toxicity of, and effect of bradykinin and slow-reacting substance produced in acetylsalicylate, chlorpromazine, 5-(2-chloroethyl)-4anaphylaxis, 23, 209 Amphetamine $[(\pm)$ -amphetamine]: methylthiazole, phenoxybenzamine and L-thyroxine sodium on, in grouped and isolated mice, 19, 245 -, anti-inflammatory action of, 18, 350 -, central stimulant action of, effect of tranquillizers -, intraventricular, effect on drug-induced tremor, in cat, 15, 578 on, 14, 340 , response of auricular beat to, effect of bretylium , comparison of action on noradrenaline response on, 15, 119 and reversal of sympathetic block in vas deferens -, response of blood pressure to, in mouse, 24, 655 preparations, 25, 243 -, in pithed rat, 18, 111 -, effect in experimental local tetanus, 13, 336 -, effect of guanethidine on, 19, 30 -, effect on action of bath-calcium concentration and -, —, effect of N-[2-(2,6-xylyloxy)ethyl]guanidine on, **25**, 537 guanethidine on response of vas deferens preparations to electrical stimulation, and action of atropine, 25, 244 , and action of noradrenaline, 25, 538 , response of heart beat to, in man, 24, 15 , effect on action of bath-calcium concentration, procaine and reserpine on response of vas deferens -, and effect of reserpine on, 13, 462 response of nictitating membrane to, effect of preparations to electrical stimulation, 25, 244 bretylium on, 19, 21 , effect on action of α-methyltryptamine on beeffect of guanethidine on, 19, 27 haviour and cerebral electrical activity, in cat, 24, salts of, paper-chromatographic behaviour of, 18, 663, 666 , effect on action of nalorphine on morphine miosis, in rabbit, 24, 792, 795 , stereoisomers of, analeptic action of, and inhibition effect on action of tranquillizers on arousal of amine oxidase by, 14, 501 , inhibition of amine oxidase by, 14, 257 threshold and electrocorticogram, 14, 342 , toxicity of, effect of amitriptyline, chlorpromazine, -, effect on behaviour, action of amitriptyline, chlorchlorprothixene, desmethylimipramine, desmethylpromazine, chlorprothixene, desmethylimipramine, desmethylpromazine, imipramine and promazine, in promazine, imipramine and promazine on, in mouse, rat, 23, 335 **23**, 341 -, effect of olive oil emulsion and Paspalum and action of chlorpromazine, 5-ethyl-5phenylpyrrolid-2-one, glutethimide, meprobamate and phenobarbitone, 25, 794 scrobiculatum extracts on, 18, 14 (+)-Amphetamine. See Dexamphetamine See Levamfetamine , effect on capillary permeability and squirming)-Amphetamine. responses to intraperitoneal acetic acid, in mouse, (\pm) -Amphetamine. See Amphetamine Amphetamine-amylobarbitone mixtures, effect on explora-**22**, 251 tory activity, defaecation and gait, in rat, 25, 432 -, effect on free fatty acids in plasma, and action of salicylate, in rat, 25, 190 Amphetamine-barbiturate mixtures, effect on behaviour, in rat, 21, 295 effect on head-twitch response to 5-hydroxytrypto-, effect on behaviour and gait after single previous phan, in mouse, 20, 113 -, effect on hypnotic action and metabolism of pentobarbitone, in rat, 18, 35 administration in similar environment, 20, 101 Amphetamine-cyclobarbitone mixtures, differential phar-, effect on hypothermia and tremor induced by Tremorine, 25, 447, 450 macological actions of, in man, 24, 14 effect on pulse rate and performance of simple -, effect on induction of gastric haemorrhage and erosion and sedation by reserpine, 14, 114 tasks and subjective effects of, in man, 18, 490 Amphetamine hydrazide. See Pheniprazine -, effect on miotic action of morphine, 24, 792 **Ampicillin** [BRL 1341; α -aminobenzylpenicillin; D(-)--, effect on pulse rate and performance of simple 6-(a-amino-a-phenylacetamido)penicillanic acid]: -, absorption, distribution, excretion, pharmacological actions and toxicity of, 18, 356 tasks, and subjective effects of, in man, 18, 490 -, effect on response of cerebral cortical neurones to -, binding by blood serum, 18, 365 L-glutamate and synaptic excitation, 20, 471 -, binding by human serum proteins, 25, 638 effect on response of hypogastric nerve-vas -, effect in experimental infections with Diplococcus deferens preparation to electrical stimulation, 22, 408 pneumoniae, Klebsiella pneumoniae, Salmonella typhi-, effect on response of potassium-depressed phrenic murium, Staphylococcus aureus and Streptococcus nerve-diaphragm preparation to electrical stimulation, 23, 190 pyogenes, in mouse, 18, 356 oral and parenteral, distribution in blood, and effect of biliary tract disease on, in man, 24, 189 -, effect on response of vas deferens to noradrenaline, **22**, 412 , effect on response of vas deferens to transmural -, distribution in blood and lymph, 17, 415 -, —, excretion in bile, 17, 420 stimulation, 25, 244 effect on toe-pinch-induced pain, in guinea-pig, 17, , and effect of biliary tract disease on, in man, 24, 189 -, effect on toxicity of yohimbine, 21, 56 -, excretion in bile, faeces and urine, 17, 414 -, effect on uptake of bretylium by heart, spleen and Amyl nitrite, effect on response of blood pressure to pronethalol during pentobarbitone anaesthesia, 24, 312 striated muscle, in rat, 25, 172, 174 effect on uptake of bretylium and guanethidine by heart, in rat, 25, 174

sulphonate) on, in dog, 15, 171

Amyl nitrite (cont.) Anaesthesia (cont.) , effect on response of small intestine to staphylo-, induced by pentobarbitone, phenobarbitone and coccal a-toxin, 14, 63 urethane, effect on peripheral distribution of catechol Amylamine. See Pentylamine amines, 24, 752 Amylase, resynthesis in depleted pancreas, effect of -, induction of and recovery from, kinetics of, in mouse, 25, 88 atropine on, 13, 71 Amylobarbitone, antiacetylcholine action of, in rat, 24, 94 Anaesthetics, effect on acetylcholine in brain, in dog. 24. effect on action of physostigmine on response of hypogastric nerve-vas deferens preparation to , effect on blocking action of lysergide (lysergic acid electrical stimulation, 23, 544 diethylamide) on vasomotor reflexes, 13, 255 , effect on acetylcholine release and transmission in -, effect on toxicity of yohimbine, 21, 59 ganglion, and action of choline, 22, 415 , fluorinated, analgesic action of, and effect of nitrous oxide on, 24, 519 , effect on apomorphine-induced pecking, in pigeon, , general and local, mechanism of action in central , effect on ganglionic and nervous transmission, selectivity of, 23, 273 nervous system, 21, 1 -, inhalation, analgesic action of, in animals, apparatus for, 22, 590 , effect on ganglion-stimulating action of acetyl--, in mouse, 22, 596 choline and carbachol, 23, 260 -, effect on response of small intestine to , effect on ganglion-stimulating action of acetylcholine, carbachol and potassium ions, 23, 263 chemical and transmural stimulation, 25, 104 , effect on head-twitch response to 5-hydroxytrypto--, effect on response of small intestine to histamine, 22, 361 phan, in mouse, 20, 113 -, effect on hypothermia and tremor induced by -, relation between convulsant and smooth-Tremorine, 25, 447, 450 muscle-stimulant actions, 22, 356 -, effect on insomnia and nocturnal restlessness, in -, local, effect on electrically induced release of acetylpsychiatric patients, 16, 82 choline from small intestine, 19, 42 , effect on response of hypogastric nerve-vas deferens -, effect on inflammation, in mouse foot, 18, 349 preparation to electrical stimulation, and action of physostigmine, 23, 544 , effect on response of blood pressure to eledoisin, 20, 522 , effect on response of hypogastric nerve-vas deferens preparation to noradrenaline, 23, 546 -, effect on response of small intestine to , effect on response of splenic nerve-spleen preparaelectrical stimulation, 19, 42 , toxicity of, effect of pronethalol on, 21, 462 tion to electrical stimulation and noradrenaline, 23, See also Central nervous depressants Anaesthetic action, local, of adiphenine, benactyzine, and Trasentin 6H, 14, 564 , ganglion-blocking action of, 23, 226 , and effect of bemegride, leptazol, nicotine and physostigmine on, 23, 251 , of amethocaine, lignocaine, o-methyl-αpropylaminopropionanilide and procaine, 16, 34 effect of repetitive preganglionic stimulation on, 24, 76 -, of amethocaine, lignocaine and procaine, , mechanism of, in rat, 24, 89 relation to central action, 15, 201 -, and relation to anaesthetic action, 23, 241 , of γ-aminobutyric acid and meprobamate, **22**, 324 , response of blood pressure to, and effect of physo--, of atropine, benzhexol, benztropine, caramistigmine and pilocarpine on, 23, 541 , response of blood pressure and respiration to, 23, 249 phen, diethazine, diphenhydramine, ethopropazine and orphenadrine, 14, 561 Amylobarbitone-amphetamine mixture, effect on behaviour, in rat, 21, 295 ---, of BW 392C60, **20**, 50 -, ..., of benzethidine, furethidine, pethidine and procaine, 15, 257
-, ..., of [2-(4-benzoyl-2,6-dimethylphenoxy)ethyl]-, effect on behaviour and gait after single previous administration in similar environment, 20, 101 , effect on exploratory activity, defaecation and gait, in rat, 25, 432 trimethylammonium, bretylium and o-bromobenzyl-Anabasine, response of blood pressure and urinary bladder to, in rat, 24, 591 trimethylammonium, 17, 97 -, of bethanidine, 20, 48 Anacardium occidentale extract, in-vitro cesticidal action -, of bretylium, in guinea-pig and man, 14, 545 of, 15, 437 , of cocaine, lignocaine and 3-phenoxypropylguanidine, 18, 478 Anaemia. See Haematinic action Anaesthesia, effect in histamine intoxication, in rat, 13, 76 -, of dioscine and dioscornine, 13, 214 -, in newborn animals, 15, 454 , of guanethidine, xylocholine and N-[2-(2,6-, induced by chloroform, effect of pronethalol on, xylyloxy)ethyl]guanidine, 25, 539 , —, of lignocaine, pronethalol and propranolol, relation to β -receptor-blocking action, 24, 332 24, 308 , induction of cardiac arrhythmias by adrenaline during, effect of pronethalol on, 24, 308 , of mecamylamine and pempidine and its -, induced by ether, pentobarbitone and urethane, effect of pronethalol on, 24, 311
-, induced by ether and thiopentone, effect on blood-N-ethyl homologue, 13, 515 , of oxolamine, 16, 214 , of tropine derivatives, 14, 562 lipid and -sugar, 15, 282 of bromopentafluorobenzene (pentafluorobromo-, induced by methylpentynol and its carbamate, benzene), hexafluorobenzene, methoxyflurane, pentablood and brain levels during, 14, 295 fluorobenzene and 1,2,3,4-tetrafluorobenzene, and effect of nitrous oxide on, 24, 519 , induced by pentobarbitone, effect of intracisternal pralidoxime (pyridine-2-aldoxime methyl methaneof centrally active agents, relation to ganglion-

blocking action, 23, 248

Analgesic action (cont.) Anaesthetic action (cont.) , of morphine, effect of levallorphan on, 15, 511 of halothane and trichloroethylene, effect of nitrous on, in mouse, 24, 172 oxide on, 22, 600 of hexobarbitone, effect of chlorpromazine and thioproperazine on, 22, 306 , effect of thalidomide on, in mouse, 15, 114 , effect of thalidomide and its metabolites on. of 1-substituted ethyl 4-phenylpiperidine-4-carin rat, 25, 358 boxylates, 15, 247 -, of hydroxydione sodium succinate, 15, 463 relation to ability to affect capillary permeability, -, of pentobarbitone, effect of atropine on, in rat, 19, 231 in mouse, 22, 246 , strong and weak, quantitative estimation of, 25, 81 See also Central nervous depressant action See also Hyperalgesic action and Pain Anaphylactic microshock, effect of cyproheptadine, homo-Analeptics. See Central nervous stimulants chlorcyclizine, methotrimeprazine, oxomemazine, promethazine and trimeprazine on, in guinea-pig, Analeptic action. See Central nervous stimulant action Analgesia, induced by arecoline, effect of amitriptyline, chlorpromazine, chlorprothixene, imipramine and **21**, 414 promazine on, 23, 344 Anaphylactic reactions, nature of chemical mediators in, in mouse, **20**, 389', repeated, in isolated tissues, quantitative study of, , receptors producing, comparison with lenticularopacity-producing receptors, 17, 433 **25**, 139 Analgesics, antibradykinin action of, 15, 601 effect on apomorphine-induced emesis and peck-Anaphylactoid reaction, induced by dextran, and effect of adrenalectomy, chlorpropamide, insulin and ing, in pigeon, 16, 141 , effect on bronchoconstrictor action of bradykinin liothyronine (tri-iodothyronine) on, in rat, 20, 555 and slow-reacting substance produced in anaphyland effect of alloxan diabetes and glucose on, axis, 23, 208 **19**, 406 , effect of ascorbic acid and L-xylose on, in , effect on gastrointestinal propulsion, pain threshold rat, 24, 731 and respiration, in rat, 14, 26 , effect on head-twitch response to 5-hydroxytrypto-, induced by purified fractions from Ascaris lumbricoides in naturally sensitized guinea-pig, 17, 238 phan and on pinna reflex, in mouse, 20, 113 , effect on impulse transmission in nerve fibres, 22, -, local, role of 5-hydroxytryptamine in, 13, 65 -, non-induction by dextran and egg-white, in rat, 20, 550 508 , effect on induction of stretching response by phenylbenzoquinone, and action of ambient tem-Anaphylatoxin, response of small intestine from normal perature and diet, in mouse, 25, 81 and desensitized guinea-pigs to, and effect of heat on, -, effect on peristaltic reflex, and inhibition by **17**, 240 nalorphine, in rat, 14, 30 Anaphylaxis, effect of ascorbic acid on, in guinea-pig, 24, -, morphine like, antagonism by nalorphine, 22, 289 -, narcotic and non-narcotic, distinction between, 22, 246 effect of ascorbic acid and mepyramine on, in rat, , testing of, multiple-toe-pinch method for, 17, 28 , histamine release and mast-cell damage in, effect of Analgesic action, of acetylsalicylic acid and oxolamine, antihistamines on, 15, 396 , effect of pyridine and diphosphopyridine-**16**, 213 -, of bemegride, 24, 173 nucleotidase inhibitors on, 15, 405 -, of benzethidine, furethidine and pethidine, 15, 255 -, passive cutaneous, effect on capillary permeability, -, of bromopentafluorobenzene (pentafluorobromoaction of chlorpromazine, lysergide (lysergic acid benzene), hexafluorobenzene, methoxyflurane, pentadiethylamide), mepyramine and promethazine, in mouse, 20, 393 fluorobenzene, sulphur hexafluoride and 1,2,3,4tetrafluorobenzene, and effect of nitrous oxide on, , induction of, in mouse, 20, 390 **24**, 519 quantitative evaluation of, in guinea-pig, 21, 441 -, of chloral hydrate, in mouse, 24, 174 See also under Shock , effect of bemegride on, in mouse, 24, 173 Androgens, effect on urinary excretion of histamine by -, of chlorpromazine and thioproperazine, 22, 306 female rat, 16, 50 -, of codeine, dextromoramide, diamorphine, di-Aneurine. See Thiamine Angiotensin (Hypertensin): pipanone, morphine, methadone, pethidine, phenadoxone, piperidylisomethadone and propoxyphene, , bioassay of, sensitive method for, 23, 351 14, 28 comparison of action on noradrenaline response , of codeine, 1-(2-diethylaminoethyl)-2-p-ethoxyand reversal of sympathetic block in vas deferens benzyl-5-nitrobenzimidazole, methadone, morphine preparations, 25, 243 and pethidine, in guinea-pig. 17, 33 -, of dextromoramide (R 875) and dipipanone, in , effect on action of guanethidine and reserpine on response of vas deferens preparations to electrical -, of hydroxydione and paraldehyde, in mouse, 24, 175 stimulation, 25, 244 -, effect on action potentials and tension in mammalian vein, and action of potassium ions, 25, 596 , of inhalation anaesthetics, in animals, apparatus -, effect on peripheral sympathetic nerve activity, 22, 211 for, 22, 590 -, of inhalation anaesthetics and methadone, in -, effect on release of adrenaline, noradrenaline and mouse, 22, 596 methylated amines from adrenals, in dog, 24, 562 , of M 183, methadone, morphine and pethidine, , effect on release of catechol amines from inferior effect of nalorphine on, 22, 294 mesenteric ganglion, 22, 200 -, of methylpentynol, in mouse, 24, 174 effect on response of blood pressure to eledoisin, -, of morpheridine and morphine, 15, 249 20, 522

SUBJECT INDEX 56 Angiotensin (cont.) , effect on response of blood pressure to physalaemin, logical actions of, 15, 557 **25**, 384 , effect on response of hypogastric nerve-vas deferens preparation to acetylcholine, electrical **15**, 557 stimulation and noradrenaline, 22, 212 -, effect of nephrectomy on, 21, 254 , effect on response of splenic nerve-spleen preparaestimation of, 21, 251 tion to electrical stimulation, 22, 213 250 -, effect on response of splenic nerve-spleen preparation to noradrenaline, 22, 214 of, 18, 314 , effect on response of vas deferens to transmural stimulation, 25, 244 , in blood, in nephrectomized and normal rats, 23, 355 , effect of renin on, in nephrectomized rat, 23, and toxicity of, 13, 242 355 β -thiosemicarbazone in, 15, 108 Anoxia, acute, recovery of isolated myocardium from, -, induction of pain by, **19**, 178 -, paper-chromatographic behaviour of, 18, 269 -, release of catechol amines from adrenals by, effect of antihistamines on, in cat, 25, 735 , effect of ganglion-blocking agents on, in dog, **25**, 738 , response of blood flow to, effect of bradykinin, histamine and prostaglandin E₁ on, 21, 538 187 -, response of blood pressure to, in intact, adrenalectomized, nephrectomized, pithed, spinal and reserpinized rats, 18, 263

-, —, effect of bretylium, cocaine, dihydroergotammonium, 20, 155 amine, hexamethonium, pentapyrrolidinium and phenoxybenzamine on, 18, 266 -, and effect of bretylium and guanethidine on, in man, 21, 403 -, effect on eledoisin on, 20, 519 157 -, effect of nicotine on, and action of hexamethonium, 22, 215 -, effect of prostaglandin E₁ on, 21, 538 tion to electrical stimulation, 23, 191 -, effect on heart beat, 23, 71 -, effect of tetramethylammonium on, 22, 215 -, response of blood pressure and vessels, bronchial muscle, capillary permeability, milk ejection and urine flow to, 19, 171 , response of blood vessels to, effect of hexamethonium and nerve section on, in rat, 18, 460 -, induction by leptodactyline, 15, 15 -, response of blood vessels, heart beat, small intestine and uterus to, 18, 267 -, response of bronchial muscle to, and effect of acetylsalicylic acid, atropine, lysergide (lysergic erosion by reserpine, 14, 114 Antazoline, effect on distribution of isoniazid between acid diethylamide) and mepyramine on, in guinea-pig, **19**, 192 blood and tissues, 15, 5

, response of hypogastric nerve-vas deferens preparation to, 22, 213

-, response of large intestine to, 24, 161

, effect of hexamethonium, hyoscine, mepyramine, methysergide, morphine, phenoxybenzamine and reserpine on, 23, 255

, response of large and small intestine, rectal caecum

and uterus to, 19, 170
-, response of large and small intestine and stomach

strip to, 23, 352 -, response of small intestine to, and effect of

atropine, BW 284C51, botulinum toxin and hexamethonium on, 19, 5, -, -, effect of bradykinin-potentiating factor from

venom of Bothrops spp. on, 24, 165

-, effect of chymotrypsin on, 24, 486

-, response of small intestine and uterus to, 14, 127 , response of splenic nerve-spleen preparation to, 22,

, response of uterus to, effect of thioglycollate on, 25, 425

-, response of venous preparations to, 24, 747

Angiotensinamide, and synthetic analogues, pharmaco-

Angiotensin-like polypeptides, pharmacological actions of,

Angiotensinogen, in plasma, effect of kallikrein on, 21, 253

relation to bradykininogen and kallidinogen, 21,

 β -Anhydrodigoxigenin, cardiotoxic and inotropic actions

effect on cardiotoxic action of ouabain, 18, 314 Aniline, effect on trypanocidal action of butarsen, 14, 434 p-Anisidine, effect on eye and Schistosoma mansoni

Anopheles virus infections, experimental, effect of isatin

and effect of adrenaline, dipyridamole, iproniazid, nitrite, noradrenaline and reserpine on, 24, 253

-, effect on action of adrenaline on response of normal and potassium-depressed phrenic nervediaphragm preparation to electrical stimulation, 23,

, effect on action of morphine on response of small intestine to dimethylphenylpiperazinium, histamine, 5-hydroxytryptamine, nicotine and tetramethyl-

, effect on action of phenoxybenzamine on response of small intestine to acetylcholine, bradykinin, dimethylphenylpiperazinium, histamine, 5-hydroxytryptamine, nicotine and tetramethylammonium, 20,

, effect on action of tetanus on response of potassium-depressed phrenic nerve-diaphragm prepara-

-, effect on response of small intestine to acetylcholine, bradykinin, dimethylphenylpiperazinium, histamine, 5-hydroxytryptamine, nerve stimulation, nicotine and tetramethylammonium, 20, 152

-, role in induction of ventricular fibrillation, 15,

Antacids, effect on induction of gastric haemorrhage and

, effect on in-vitro mast-cell damage induced by antigen, 15, 400

, effect on response of venous preparations to histamine, **24**, 744

-, in-vitro mast-cell damage induced by, and effect of metabolic inhibitors, calcium-lack and high temperatures on, 15, 399

, potentiation of cardio-accelerator action of adrenaline and noradrenaline by, 13, 7

, response of heart beat to, 13, 8

Anthelmintics, response of Ascaris lumbricoides body movements to, method of recording, 13, 197

-, in-vitro screening test for, with Hymenolepis nana, 15, 436

Anthelmintic action, of bephenium, methyridine and phenothiazine, 17, 321

, of chenopodium oil, hexylresorcinol, piperazine salts, santonin, tetrachloroethylene and thymol, 13, 199

-, of derivatives of filicinic acid, hydroxyquinol, phloroglucinol, pyrogallol and resorcinol, 24, 714

-, of methyridine and its metabolites, 17, 327

Anthranilic acid, effect on bronchoconstrictor action of Antianaphylactic action (cont.) of cyproheptadiene, homochlorcyclizine, methobradykinin and slow-reacting substance produced in anaphylaxis, 23, 209 trimeprazine, oxomemazine, promethazine trimeprazine, 21, 414 , effect on free fatty acids in plasma, in rat, 25, 190 Antiacetylcholine action, of adiphenine, benactyzine and Antiarecoline action, of (+)- and (-)-hyoscyamine and Trasentin 6H, 14, 564 -hyoscine, 24, 143 -, of adrenergic blocking agents, 20, 421 Antibacterial action, local, of benzylpenicillin, cetrimide, , of amylobarbitone, atropine, benactyzine, bretyldequalinium, hedaquinium and oxytetracycline, 13, ium, hexamethonium, mephenesin, methylpentynol and its carbamate, paraldehyde, procaine and tetra--, of 7-aminocephalosporanic acid derivatives, benzylethylammonium, in rat, 24, 94 penicillin and methicillin, and synergism with other -, of antiadrenaline agents, 20, 528 antibiotics, 22, 22 of antiparkinsonian drugs and related pheno-, of α-amino-oxy-acids and -hydrazides, alkoxythiazine derivatives, 18, 247 amines, alkoxydiguanides and their derivatives, 15, -, of atropine, 13, 107; 14, 52, 53 243 , of atropine, benzhexol, benztropine, caramiphen, diethazine, diphenhydramine, ethopropazine and ampicillin, benzylpenicillin, phenethicillin, of phenoxymethylpenicillin and tetracycline, in vivo, 18, orphenadrine, 14, 561 , of atropine and benzoquinonium, 25, 487 , of benzylpenicillin, cephalosporin C and its , of atropine, benzoquinonium, decamethonium, pyridinium derivative, and cephalosporin N, 16, 173 methanthelinium, nicotine, pentamethonium, tetra-, of colistin and polymyxins and their sulphomethyl ethylammonium and tubocurarine, 14, 405 derivatives, 23, 552 -, of erythromycin and spiramycin, 19, 99 -, of atropine, choline 3-isobutyl-1-methyl-6-thioxanthinate, theophyllinate and 6-thiotheophyllinate, , of penicillins, effect of serum on, 25, 645 and promethazine, 16, 63, 66 See also Antimicrobial action -, of atropine, diphenhydramine and mepyramine, **15**, 563 Antibacterial agents, topical, method for evaluating, 13, -, of atropine, hexamethonium and nicotine, on trout Antibarium action, of atropine, hexamethonium, hyosgut, 13, 220 cyamine and morphine, 13, 297 -, of atropine, poldine and propantheline, 17, 46 Antibiotics, bacillary, new, pharmacological actions of, of atropine, pralidoxime and 1,1'-trimethylenebis-**15**, 313 (4-hydroxyiminomethylpyridinium bromide), 18, 287 , binding by serum proteins of various species, and , of atropine methobromide, methanthelinium and effect of other substances bound by serum proteins quaternary acetyltropeïne derivatives, 14, 564 and of various experimental factors on, 25, 638 -, of bis-quaternary tropeïnes, 15, 76 , effect in experimental *Leptospira zanoni* infections, -, of bistropinium esters, 18, 276 in mouse, 20, 237 -, of cinchonidine, 14, 55 -, effect on body and splenic weights, 5-hydroxytrypt--, of dioscine and dioscornine, 13, 214, 215 amine in organs and tissues, and intestinal flora, in of hyoscyamine, 13, 297 mouse and rat, 16, 90 -, of (+)- and (-)-hyoscyamine and -hyoscine, 24, 140 , effect on Theileria annulata in tissue culture, 13, 459 -, excretion in bile, 17, 420 -, of mecamylamine and pempidine and its N-ethyl , in-vitro sensitivity of Australian leptospiral sero-types to, 20, 232 homologue, 13, 511 -, of nitroparaffins and other nitro-compounds, 18, 382 in-vitro toxicity to skin, 14, 168 , of polymethylenebis(triethylammonium) salts, 23, Antibradykinin action, of acetylsalicylic acid, flufenamic 144 acid, mefenamic acid and phenylbutazone, 20, 347 , of pralidoxime and other pyridinium aldoximes, 13, 289; 14, 198 , of analgesic antipyretics, 15, 601 of human-tissue extracts, 21, 420 -, of Prymnesium parvum toxin, 22, 50 Anticholinesterases, effect on action potentials evoked in -, of SK&F 90,109 and 90,238, 23, 497 motor nerve and striated muscle by motor-nerve , of tropine derivatives, 14, 562 shocks, 20, 326 Antiacetylcholine agents, centrally acting, effect on acetyl--, effect on neuromuscular transmission, 20, 63 choline in brain, in rat, 23, 123 -, action of diacetyl monoxime, 14, 320 effect on apomorphine-induced emesis and pecking, -, mechanism of, **20**, 339 effect on persistence of acetylcholine in fluid perin pigeon, 16, 142 -, effect on toxicity of yohimbine, 21, 57 fusing cerebral ventricles, 13, 164 ganglion-blocking action of, 15, 147 , effect on response of hypogastric nerve-vas deferens preparation to acetylcholine, electrical stimulation Antiadrenaline action. See Adrenolytic action Antiadrenergic agents. See Adrenolytics Antialdosterone agents, effect on functions of perfused and noradrenaline, 20, 304 -, effect on response of hypogastric nerve-vas deferens kidney, 20, 443 preparation to electrical stimulation, 24, 642 Antiamoebic action. See Amoebicidal action -, effect on sialogenous action of acetylcholine and Antiamphetamine action, of bulbocapnine, chlorpromaz-

Antianaphylactic action, of antihistamines, 15, 396 muscle to, 25, 179 , of choline 3-isobutyl-1-methyl-6-thioxanthinate, , response of small intestine to, effect of choline-16, 65 acetylation inhibitors on, 13, 468

ine, methotrimeprazine prochlorperazine, 9620 RP, thioproperazine and trifluoperazine, 22, 308

, of thioproperazine, effect of antiparkinsonian

drugs on, 22, 310

methacholine, 13, 193

-, in Gluta renghas leaf extract, 15, 440

-, parenteral, effect on release of endogenous acetyl-

, response of chick and toad slow-contracting

choline by perfused cerebral ventricles, 13, 165

```
Anticholinesterases (cont.)
                                                              Anticurare action (cont.)
     , response of smooth muscle of chick amnion to, 18,
                                                                   , of tetraethylammonium and triethylcholine, 19, 210
                                                              Antidepressants, effect on adenine nucleotides, inorganic
    -, response of striated muscle to, potentiation of, effect of benzoguinonium on, 13, 527
                                                                   phosphate and phosphocreatine in brain, 20, 462
                                                                   -, effect on autonomic functions and reserpine antagonism, 23, 330
    -, response of tracheal muscle to, mode of action of, 21, 137
                                                                   , effect on autonomic and psychic actions and
     -, sialogenous action of, and effect of atropine and
                                                                   toxicity of yohimbine, 21, 51
                                                                   , effect on exploratory activity and defaecation, in
     cocaine on, in normal and parasympathetic de-
     centralized and denervated parotid glands, 13, 193
                                                                   rat, 25, 432
Anticholinesterase action, of adrenergic blocking agents,
                                                                   , effect on 5-hydroxytryptamine in blood platelets,
     20, 425
                                                                   in man, 15, 35
     , of ambenonium, edrophonium, methoxyambenon-
                                                                   -, effect on hypothermia and tremor induced by Tremorine, 25, 447, 450
     ium and neostigmine, 20, 68
    -, of ambenonium and methoxyambenonium, 15, 481
                                                                     response of nictitating membrane to, in cat, 17, 339
    -, of chloral hydrate, 19, 111
                                                              Antidiabetic drugs, oral, mechanism of action of, 14, 377
     , of dyflos, neostigmine and physostigmine (eserine),
                                                              Antidimethylphenylpiperazinium action, of mecamylamine
     13, 152
                                                                   and pempidine and its N-ethyl homologue, 13, 511

 of echothiophate, 18, 294

                                                              Antidiuretic action, of aldosterone, effect of SC-11480 and
     of ergotamine, phenoxybenzamine, piperoxan,
                                                                   spironolactone on, 20, 446
     tolazoline and yohimbine, 15, 525
                                                                   , of angiotensin, bradykinin, isoprenaline, oxytocin,
    -, of neostigmine and pempidine, 13, 345
                                                                   substance P and vasopressin, 19, 171
                                                                   -, of benzethidine, furethidine and pethidine, 15, 257
    -, of neostigmine and triethylcholine, 19, 207
    -, of (+)- and (-)-nicotine, 25, 208
                                                                   of [2-(4-benzoyl-2,6-dimethylphenoxy)ethyl]tri-
    -, of phenoxybenzamine and tolazoline, 22, 532
                                                                   methylammonium, bretylium, pentacynium and phenoxybenzamine (Dibenyline), 17, 469
     -, of pralidoxime (pyridine-2-aldoxime methiodide),
     13, 289
                                                                   , of chlorisondamine, mecamylamine, pempidine and
Anticholinesterase poisoning, antidotes in, atropine and
                                                                   pentolinium, 13, 511
     oximes as, 14, 5, 186, 192
                                                                   , of colistin and polymyxins and their sulphomethyl
           , atropine and pralidoxime (pyridine-2-aldox-
                                                                   derivatives, 23, 560
     ime methyl methanesulphonate) as, 15, 170
                                                                   , of dichloroisoprenaline, 20, 137
     -, cerebral cholinesterase activity after successful
                                                                   -, of dioscine and dioscornine, 13, 215
     treatment with atropine and pralidoxime, 15, 432
                                                                   -, of isoprenaline, and effect of pronethalol (Nethal-
     See also Organophosphorus poisoning
                                                                   ide) on, 20, 137
Anticoagulants, hypoprothrombopaenia induced by,
                                                                   -, of isoprenaline and orciprenaline, 25, 153
     reversal by vitamin-K-like substances, in rat, 14, 15
                                                                   -, of morphine, effect of levallorphan and nalorphine
                                                                   on, 15, 510
Anticoagulant action, of coumarin derivatives, structure-
     activity relations, 20, 29
                                                                   , of nicotine, effect of adiphenine and levallorphan
     , of iron-dextrin and -sorbitol, 17, 362
                                                                   on, 15, 510
Anticonvulsants, effect on toxicity of yohimbine, 21, 59
                                                                          , and effect of allylnornicotine and nor-
Anticonvulsant action, of chlorpromazine, glutethimide, meprobamate, phenobarbitone and substituted piperidones and pyrrolidones, 25, 790
                                                                   nicotine on, in rat, 18, 300
                                                                   -, of oxytocin and vasopressin, effect of pituitary
                                                                   melanophore-expanding hormone on, 13, 316
     , of chlorpromazine, methotrimeprazine, prochlor-

    of pepsitensin, 18, 261

                                                                  , of protoveratrines, 14, 76, of SC-11480 and spironolactone, 20, 445
     perazine, 9620 RP and trifluoperazine, 22, 308
     -, of ganglion-blocking agents, 13, 345
     , of mecamylamine and pempidine and its N-ethyl
                                                                  -, of synthetic oxytocin analogue, 14, 135
     homologue, 13, 514
                                                                   -, of L-tryptophan, 17, 519
     , of mephenesin, meprobamate and substituted 1,3,4-thiadiazoles, 13, 359
                                                                   , of veratridine, 14, 75
                                                                   See also Urine flow
     , of mephenesin and thiopentone, in experimental
                                                               Antidiuretic hormone, effect on milk ejection, in lactating
     local tetanus, 13, 331
                                                                   guinea-pig, 17, 307
     See also Antitetanus action
                                                                   , neurohypophysial, effect of haemorrhage
                                                                   release of, in anaesthetized rat, 14, 328
Anticurare action, of acetylcholine, adrenaline, deca-
     methonium, potassium ions and suxamethonium,
                                                               Antiemetics, effect on apomorphine-induced emesis and
     effect of benzoquinonium on, 13, 527
                                                                   pecking, in pigeon, 16, 141
     , of acetylcholine, decamethonium, edrophonium
                                                               Antiemetic action, of chlorpromazine, fluopromazine,
     and suxamethonium, 14, 459
                                                                   methyltrifluoperazine, pecazine, perphenazine, pipa-
     -, of adrenaline, 13, 524
                                                                   mazine, prochlorperazine, thiopropazate, thiopro-
   -, of adrenaline and isoprenaline, 19, 478
                                                                   perazine and trifluoperazine, 21, 436
     , of ambenonium, edrophonium, methoxyambenon-
                                                                    , of chlorpromazine, prochlorperazine and thio-
                                                               properazine, 22, 308
Antiepileptics. See Anticonvulsants
     ium and neostigmine, 20, 66
     -, of ambenonium and methoxyambenonium, 15, 477

    of choline, and effect of benzoquinonium on, 14, 459

                                                               Antiesterase action. See Anticholinesterase action
     -, of edrophonium, ethyl pyrophosphate (tetraethyl
                                                               Antifertility action, of alkylating agents, in rat, 14, 149
     pyrophosphate), neostigmine and physostigmine (eserine), and effect of benzoquinonium on, 13, 525
                                                               Antifibrillatory action, of ajmaline, dibenamine, papaver-
                                                                   ine, procainamide, procaine, quinidine and serpaj-
    -, of guanidine and its derivatives, 19, 414
                                                                   maline, 17, 425
     , of quaternary ammonium compounds, relation to
                                                                   , of dichloroisoprenaline, disopyramide and pro-
```

nethalol, 21, 462

effect on curarized endplate potentials, 23, 575

Antifibrillatory action (cont.) Antihistaminic action (cont.) , of atropine, diphenhydramine, mepyramine and , of disopyramide, pronethalol and quinidine, 21. pethidine, 14, 52 -, of bretylium, 14, 546 , of lignocaine, pronethalol and propranolol, rela--, of diphenylacetyltropeine, 14, 565 tion to local anaesthetic action, 24, 332 tests for, 17, 424 of extracts from crown-gall-infected and normal Antifibrillatory agents, inhibition of experimental atrial tomato plants and of tomatine, 22, 486 -, of extracts from horse eosinophils, 18, 101 fibrillation by, 13, 107 Antifungal action, of α -amino-oxy-acids and -hydrazides, -, of extracts from plant tumours, 18, 87 alkoxyamines, alkoxydiguanides and their deriva--, of mecamylamine, 13, 511 tives, 15, 243 , of mepyramine, phenindamine and thenalidine, 13, of dichloroacetamide derivatives and related -, of picolylamines, 19, 548 compounds, 17, 286 -, of pyridinium aldoximes, 14, 198 Antigens, bronchoconstrictor action of, in sensitized , of SK&F 90,109 and 90,238, 23, 497 guinea-pig, 21, 442 of solanine, solasonine and tomatidine, 22, 496 , effect of acetylsalicylate, atropine and lysergide (lysergic acid diethylamide) on, in sensitized Anti-5-hydroxytryptamine action, of adrenaline, noradrenaline and phenothiazine derivatives, 13, 67 guinea-pig, 15, 605 of antimetabolites, 2-bromolysergic acid diethyl-, in-vitro histamine release in sensitized tissues by, effect of antihistamines on, 15, 400 amide, mepyramine, phenindamine and thenalidine, 13, 66 , and effect of antipyretics, calcium-lack, heating and metabolic inhibitors on, 15, 82 of atropine, bromolysergic acid diethylamide, diphenhydramine and lysergide (lysergic acid diethyl--, in-vitro mast-cell damage in sensitized tissues by, and effect of calcium-lack, heating and metabolic amide), 15, 563 inhibitors on, 15, 82 -, of atropine, hyoscyamine and morphine, 13, 297 , of bromolysergic acid diethylamide and Ranunculus -, response of sensitized and non-sensitized descleratus extracts, 25, 745 nervated striated muscle to, and effect of tripelen--, of extracts from human tissue, 21, 420 namine and tubocurarine on, 25, 610 Antigenic action, of purified fractions from Ascaris lumbricoides, 17, 236 of lysergic acid derivatives, 18, 441 Anti - 5 - hydroxytryptamine agents, anti - inflammatory Antihistaminases. See Histaminase, inhibitors of Antihistamines, antianaphylactic and histamine-releasing action of, 18, 351 , effect on action of imipramine on toxicity of actions of, 15, 396 vohimbine, 21, 58 , effect on head-twitch response to 5-hydroxytrypto-, effect on apomorphine-induced emesis and pecking, phan, in mouse, 20, 113 in pigeon, 16, 142 effect on induction of oedema by compound 48/80, , effect on central and lethal actions of compound 48/80, in mouse, 14, 244 dextran, eggwhite, histamine and 5-hydroxytrypteffect on head-twitch response to 5-hydroxyamine, in rat hindpaw, 13, 66 , effect on sympathetic ganglionic transmission, 17. tryptophan, in mouse, 20, 113 effect on in-vitro histamine release and mast-cell , effect on toxic action of 5-hydroxytryptamine on damage in sensitized tissues by antigen and compound 48/80, 15, 400 pregnancy, in mouse, 21, 150 reffect on hypothermia and tremor induced by Tremorine, 25, 447, 450 , effect on toxicity of yohimbine, 21, 57 Antihypertensive action, of amylobarbitone and mebuta-mate, mechanism of, 23, 540 effect on induction of oedema by compound 48/80, dextran, eggwhite, histamine and 5-hydroxytrypt-, of guanoxan, 24, 37 amine, in rat hindpaw, 13, 67 -, of methyldopa, 22, 83 , of monoamine-oxidase inhibitors, site of action, 20, , effect on release of catechol amines from adrenals by angiotensin, bradykinin and histamine, in cat and See also Blood pressure and Hypotensive action dog, 25, 734 Antihypothermic action, of centrally active drugs, 25, 442 , effect on response of small intestine to histamine Anti-inflammatory action, of analgesics-antipyretics, and 2-pyrid-2'-ylethylamine, 14, 51 -, effect on toxicity of yohimbine, 21, 57 -, effect on uptake of histamine and 5-hydroxytryptantiesterases, a-aryloxypropionates, cortisone, ephedrine, mepyramine, methocarbamol and tolazoline, amine by mast cells, 23, 412 in mouse, 16, 163 , of acetylsalicylate, oxolamine and phenylbutazone, -, in-vitro mast-cell damage induced by, and effect of metabolic inhibitors, calcium-lack and high tem-**16**, 215 , of 2-butoxycarbonylmethylene-4-oxothiazolidine peratures on, 15, 396 and phenylbutazone, in adjuvant-induced arthritis, , new, antianaphylactic action of, 21, 414 -, sensitization of heart and nictitating membrane to in rat, **24**, 633 -, of hexadimethrine and protamine sulphate, 24, 705 sympathomimetic amines by, 13, 6 , of iproniazid, phenylbutazone and salicylamide, 14, Antihistamine-like substance(s), in human-tissue extracts, 484 21, 419 of substituted dihydroxybenzenes, 22, 221 Antihistaminic action, of adrenaline, noradrenaline and phenothiazine derivatives, 13, 67 Anti-inflammatory agents, effect on arthritis induced by mycobacterial adjuvant, in rat, 21, 127 -, of atropine, 13, 299; 14, 54 , of atropine, chlorpheniramine, diphenhydramine , effect on bronchoconstrictor action of bradykinin

and slow-reacting substance produced in anaphyl-

-, production at site of inflammation, 23, 420

axis, 23, 209

and mepyramine, 15, 563

of atropine, choline theophyllinate and 6-thio-

theophyllinate, and promethazine, 16, 63, 66

Anti-inflammatory agents (cont.)

-, steroid, effect on capillary permeability and squirming responses to intraperitoneal acetic acid, in mouse, 22, 251

Antimalarials, effect on bronchoconstrictor action of bradykinin and slow-reacting substance produced in anaphylaxis, 23, 209

, effect on Theileria annulata in tissue culture, 13, 459 Antimetabolic action, of azauridine, site of, 23, 90

Antimetabolites, effect on normal and stilbamidineresistant trypanosomes, 14, 443

Antimicrobial action, of chloramphenicol derivatives and various amines, effect of dichloroacetylation on, 17,

See also Antibacterial action

Antimonials, effect on *Theileria annulata* in tissue culture, 13, 459

trypanocidal action on normal and drug-resistant trypanosomes, in mouse, 14, 423

Anti-monoamine-oxidase action. See Monoamine oxidase, inhibition of

Antimony potassium tartrate, in-vitro cesticidal action of, **15**, 437

, effect on location and pairing of schistosomes in host, 22, 342

-, effect on Theileria annulata in tissue culture, 13, 459 , uptake and elimination by schistosomes, 22, 342

Antimorphine action, of levallorphan and nalorphine, 13,

Antimuscarinic action, of guanethidine, 17, 250

Antimuscarinic agents, effect on electroencephalogram and on response to reticular stimulation and touch, in cat, 13, 487

Antinicotinic action, of atropine, hyoscyamine and morphine, 13, 297

, of hexamethonium, mecamylamine and pempidine and its N-ethyl homologue, 13, 515

of hydroxydione sodium succinate, 15, 461

Antinicotinic agents, effect on electroencephalogram and on response to reticular stimulation, in cat, 13, 487 Antinoradrenaline action, of 1-ethyl-2,2,6,6-tetramethylpiperidine, 13, 511

Antiparkinsonian action, quantitative assessment of, 25, 453

Antiparkinsonian agents, antiacetylcholine and anti-tremor actions of, 18, 247

-, antiacetylcholine, local anaesthetic and mydriatic actions and toxicity of, 14, 561

-, effect on central action of thioproperazine, 22, 310 , effect on tremor induction and other actions of Tremorine, 14, 560

-, intraventricular, effect on drug-induced tremor, in cat, 15, 578

Antiperistaltic factor, from wheat gluten, and effect of incubation with adenosine deaminase and intestinal mucosa on, 21, 238

Antiphlogistic action. See Anti-inflammatory action Antiprotozoal action, of bradykinin, 18, 309
—, of Colisan, and effect of bradykinin on, 18, 304

-, of Colisan and staphylococcal haemolysins, 17, 165

Antipyretics, analgesic, antibradykinin action of, 15, 601 , effect on bronchoconstrictor action of bradykinin

and slow-reacting substance produced in anaphylaxis, 23, 209 , effect on in-vitro histamine release and mast-cell

damage in sensitized tissues by antigen and compound 48/80, **15**, 85

Antipyretic action, of meprobamate and substituted 1,3,4-thiadiazoles, 13, 361

-, of phenylbutazone, 14, 486

Antipyretic action (cont.)

, of thalidomide, in rabbit, 15, 114

Antipyrin. See Phenazone

Antirheumatic agents, effect on bronchoconstrictor action of bradykinin and slow-reacting substance produced in anaphylaxis, 23, 209

effect on cutaneous response to thurfyl nicotinate and ultraviolet light, in guinea-pig, 21, 104

Antisecretory action, gastric, of chorionic gonadotrophin and urogastrone, relation to gonadotrophic activity, 20, 534

Antiserotonin agents. See Anti-5-hydroxytryptamine agents

Antisialogenous action, of atropine, hyoscine and its methobromide, methanthelinium, oxyphenonium and propantheline, in man, 13, 186, 189

Antispasmodic action. See Spasmolytic action Antisympathomimetics. See Sympatholytics

Antitetanus action, method of assessing, using experimental local tetanus in rabbit, 13, 330

-, of acepromazine and chlorpromazine, tachyphyl-

axis to, 16, 296

-, of γ -aminobutyric acid, 2-amino-4-methylbenzthiazole, chlorpromazine, haloperidol, mebutamate, mephenesin, meprobamate, orphenadrine, promethazine, SQ 4909 and SQ 10,220, 25, 74

, of 2-amino-6-methylbenzthiazole, dicyclopropyl ketoxime, mephenesin, meprobamate and phenothiazine derivatives, 17, 507

, of barbiturates, betanaphthoxyethanol, mephenesin, phenothiazine derivatives and various other substances, 13, 334

of mephenesin and thiopentone, 13, 331

Antithyroid action, of 2-thiohydantoin and its derivatives and thiouracil, 13, 350

Antithyroid agents, effect on toxicity of histamine and 5-hydroxytryptamine, in mouse, 17, 140

Antitoxin, staphylococcal, response of small intestine to, 14,65

Anti- α -toxin, staphylococcal, effect on action of α -toxin on response of large and small intestine to acetylcholine, histamine and 5-hydroxytryptamine, 25, 782

-, effect on release of histamine from tissues by compound 48/80 and α -toxin, 25, 776

-, effect on response of small intestine to a-toxin, 25, 782

-, release of histamine from tissues by, 25,1776 Antitremor action, of adiphenine, benactyzine and Trasentin 6H, 14, 564

, of antiparkinsonian agents and related phenothiazine derivatives, 18, 247

, of antiparkinsonian agents and tropine derivatives, **14**, 559

, of atropine, benzhexol, benztropine, caramiphen, diethazine, diphenhydramine, ethopropazine and orphenadrine, 14, 561

, of atropine methobromide, methanthelinium and quaternary acetyltropeïne derivatives, 14, 564

-, of centrally active drugs, 25, 442 -, of ether and hexobarbitone, 14, 562

-, of hyoscine, 14, 352

—, of tropine derivatives, 14, 562 Anti-Tremorine action, of (+)- and (-)-hyoscyamine and -hyoscine, in mouse, 24, 143

Antitrypanosomal action. See Trypanocidal action Antitubercular action, of 3-acetylthio- and 3-(2-furoylthio)-propylene sulphide, isoniazid and streptomycin.

, of a-amino-oxy-acids and -hydrazides and alkoxydiguanides, 15, 244

Antitubercular action (cont.)

-, of dichloroacetamide derivatives and related compounds, 17, 286

, of dimercaptopropyl esters, episulphides, thiol esters and thiols, 15, 485

-, of ditophal, ethyl dithiolterephthalate, isoniazid and streptomycin, 15, 122, of isoniazid, effect of carbachol, histamine and

pyrogen on, 15, 4

Antitubercular agents, effect in experimental tuberculosis, 15, 4 , effect on inflammatory reaction and tissue perme-

ability, 15, 4 Antitumour action, of busulphan and methylene di-

(methanesulphonate), in rat, 24, 24

Antitussive action, of benzethidine, furethidine and pethidine, 15, 256

of codeine and oxolamine, 16, 212 Antiviral action, four-point assay of, 15, 104

of ω -aminoacetophenone derivatives, in ovo and in vitro, 13, 404

, of isatin thiosemicarbazone and related compounds, structure-action relations in, 15, 101

, of 3,4-xylidine derivatives and related compounds, in tissue culture, 13, 424

-, structure requirements for, 13, 424

Antrycide. See Quinapyramine Antrypol. See Quinapyramine

Anxiety, effect on apomorphine-induced pecking, in pigeon, 17, 9

Aorta, from reserpine-treated rabbit, response to dexamphetamine, 21, 432

, localization of (2-bromoethyl)ethyl(naphth-1-yl-

methyl)amine in, in rat, 23, 291
-, localization of [S]heparin in, 18, 626

, noradrenaline in, in anaesthetized and spinal cats,

-, effect of cocaine on, in rabbit, 13, 466

, response to adrenaline, effect of ergotamine on, 19, 124

, response to adrenaline, dexamphetamine and 5-hydroxytryptamine, effect of phenoxybenzamine on, and action of high concentrations of adrenaline, dexamphetamine and 5-hydroxytryptamine, 21, 432

-, response to adrenaline, ergotamine and ergometrine, effect of ergotamine and phenoxybenzamine on, and action of ergometrine, 19, 125

, response to dexamphetamine, and effect of cocaine on, **21**, 433

-, response to dopamine and noradrenaline, 13, 473 -, response to ergotamine, and effect of adrenaline and ergotamine on, 19, 123

effect of adrenaline and phenoxybenzamine on, 19, 124

, effect of phenoxybenzamine on, and action of acetylcholine, histamine and 5-hydroxytryptamine, 19, 125

, response to nicotine and noradrenaline, effect of sympatholytics on, 14, 239

See also Arteries and Blood vessels

Aortic-strip preparation, rabbit, response to adrenaline and noradrenaline, effect of bretylium on, 16, 330 -, and effect of chlorpromazine on, 23,

510 , response to noradrenaline, effect of replacing

chloride in bath fluid by ethanesulphonate on, 14, 360 Aplysia limacina, absence of eledoisin in, 19, 330 Apnoea, induction by leptodactyline, 15, 20

-, induction by β -substituted acryloylcholines, 13, 309 See also Respiration

Apomorphine, effect on behaviour, in animals, 17, 10

, ---, action of chlorpromazine, imipramine and promazine, in rat, 23, 336

-, effect on lens and pain, 17, 434 -, emetic action of, 15, 286; 17, 10

, effect of antiemetics, antihistamines, autonomic blocking agents and central nervous depressants and stimulants on, in pigeon, 16, 137

-, effect of bulbocapnine, chlorpromazine, prochlorperazine and thioproperazine on, 22, 308

, effect of Paspalum scrobiculatum extracts on,

, effect of thioproperazine on, action of antiparkinsonian agents, 22, 311

-, pecking induced by, in birds, 15, 285; 17, 10

-, effect of antiemetics, antihistamines, autonomic blocking agents, and central nervous depressants and stimulants on, in pigeon, 16, 137

-, effect of anxiety, fear and feeding sensations on, in pigeon, 17, 9

-, effect of barbiturates, cortisone, histamine, lobeline, nicotine, progesterone, taurocholate and tranquillizers on, in pigeon, 17, 7

Aprobit. See (2-Hydroxyethyl)(1-methyl-2-phenothiazin-10'-ylethyl)dimethylammonium

Aqueous humour, localization of intravenous methylpentynol and its carbamate in, in cat, 13, 368

, localization of intravenous nitrofurans in, comparison with cerebrospinal fluid and plasma, in dog, **24**, 266

, outflow from eye, effect of intravitreous sympathomimetic amines on, and action of phentolamine and sympathetic denervation, 23, 374

-, effect of phentolamine on, 23, 277

See also Eye

Arabinose, effect on in-vitro histamine release and mastcell damage by dextran, 19, 410

D-Arabinose, effect on action of polysaccharides on capillary permeability, in rat, 25, 605

-Aralkylguanidines, adrenergic neurone-blocking action of, **24**, 408

, adrenergic neurone-blocking action and synthesis of, 24, 395

, effect on cardiac noradrenaline, dopamine- β oxidase, eyelid and monoamine oxidase, 24, 408 Aranthol. See Methylheptaminol

Arecoline, analgesic action of, effect of amitriptyline, chlorpromazine, chlorprothixene, imipramine and promazine on, 23, 344

-, in-vitro cesticidal action of, 15, 437

, effect on action of guanethidine on response of vas deferens preparations to electrical stimulation, 25, 244 , effect on conditioned reflex, action of amitriptyline, atropine, desmethylimipramine and imipramine, in rat, 23, 344

-, —, action of (+)- and (-)-hyoscyamine and -hyoscine, 24, 143

-, response of small intestine to, effect of pH on, 25, 5 response of *Tapes* heart to, and effect of benzo-quinonium on, 25, 485

Argentaffin cells, intestinal, effect of diet on, in rat, 15, 516 Argentaffinoma, human, dopa decarboxylase from, substrate specificity of, 18, 175

Arginine, effect on trypanocidal action of butarsen, 14, 434

L-Arginine, inhibition of histidine decarboxylase by, 15, 552

Argipressin (arg*-vasopressin):

response of bronchial muscle to, in guinea-pig, 19, 193

Argipressin (cont.) Asarone (cont.) , response of large intestine to, 24, 159 , effect on sedative action of chlorpromazine and Argiprestocin, response of large intestine to, 24, 159 reserpine, 20, 438 Arg8-vasopressin. See Argipressin , sedative action of, 20, 438 β-Asarone, effect on action of chlorpromazine and Arousal response, effect of amphetamine, atropine, reserpine on conditioned responses, electroconvulphysostigmine and tranquillizers on, in cat, 14, 340 Arrhythmias, atrial, induction by aconitine, and effect of sions and fighting behaviour, in animals, 20, 438 acetylcholine, atropine, hexamethonium, physostigmine and tetraethylammonium on, 15, 448 -, effect on action of reserpine on 5-hydroxytryptamine in brain, 20, 439 , induction by ouabain, effect of carotid sinus , effect on conditioned responses, fighting behaviour stimulation on, 17, 12 and electroconvulsions, in animals, 20, 436 , cardiac, induction by adrenaline during chloroform , effect on sedative action of chlorpromazine and anaesthesia, effect of pronethalol on, 24, 308 reserpine, 20, 438 Ascariasis, treatment of, 13, 200 , induction by halothane, 20, 590 , ectopic ventricular, induction by acute myocardial Ascaris lumbricoides, anaphylactoid-reaction-producing fraction from, purification of, 17, 236, purified, antigenic properties on naturally infarction, and effect of nialamide on, in pig, 19, 394 See also Heart beat sensitized guinea-pig, 17, 236 Arsacetin, pK_a value of, 14, 435 mast-cell damage and histamine-releas-, trypanocidal action of, effect of p-aminobenzoic acid on, 14, 436 ing action of, 17, 239 Arsenamide, in-vitro cesticidal action of, 15, 437 , response of small intestine from normal , effect on Theileria annulata in tissue culture, 13, 459 and desensitized guinea-pig to, and effect of heat on, Arsenicals, organic, effect on Theileria annulata in tissue **17**, 239 culture, 13, 459 , body movements of, and effect of anthelmintics on, -, trivalent, trypanocidal action of, 15, 567 method of recording, 13, 197 -, trypanocidal action of, effect of p-amino--, incorporation of lactate into succinate by, effect of benzoic acid on, 14, 436 piperazine on, 14, 499 , trypanocidal action on normal and drug-, motility and succinate production by, and effect of resistant trypanosomes, in mouse, 14, 423 piperazine on, 14, 497 Arsenite, in-vitro trypanocidal action on normal and , muscle of, paralysing action of piperazine on, 22, 463 -, succinate production by, effect of nystatin and stilbamidine-resistant trypanosomes, 14, 445 promethazine on, 14, 497 pp'-Arsenobis [anilino-4-(2-amino-1,6-dimethyl) pyri-Ascaris spp., anaerobic metabolism of, effect of methyridine on, 17, 335 midinium], synthesis and trypanocidal action of, 13, , uptake of methyridine by, 17, 333 Arsenophenylglycine, trypanocidal action of, effect of p-aminobenzoic acid on, 14, 436 Ascorbic acid, effect on action of dextran on capillary γ-(p-Arsenosophenyl)butyric acid. See Butarsen permeability, in rat, 24, 732 Arteries, catechol amines in, histochemical study of, 25, effect on anaphylactoid reaction induced by dextran, in rat, 24, 731 -, effect on anaphylaxis, in guinea-pig, 24, 726 coronary, two-stage ligation of, for induction of ectopic ventricular arrhythmias, in pig, 19, 395 , and action of mepyramine, in rat, 24, 731 -, normal and denervated, from untreated and reserpine-treated animals, noradrenaline in and , effect on in-ovo and in-vitro antiviral action of ω -aminoacetophenone derivatives, 13, 408 response to nicotine and sympathomimetic amines, -, effect on bronchoconstrictor action of histamine, and action of pempidine, pronethalol and reserpine, -, pulmonary, response to acetylcholine, effect of atropine, physostigmine and reserpine on, 22, 177 in guinea-pig, 24, 731 , effect on decarboxylation of histidine, in normal -, effect of bretylium and yohimbine on, and scorbutic guinea-pigs, 24, 729 **22**, 178 effect on histidine decarboxylase in kidney and liver from scorbutic guinea-pig, **24**, 731 -, effect on metabolism of histamine, in guinea-pig, **24**, 725 , response to atropine, hemicholinium and physostigmine, 22, 178 , sympathetic mechanisms in, 22, 176 See also Aorta; Blood vessels; and Carotid occlu--, effect on release of histamine from lung of scorbutic guinea-pig, 24, 728 Arthritis, induced by adjuvant, and effect of anti-inflammatory agents on, in rat, 21, 127 effect on release of histamine by antigen from perfused sensitized lung, 24, 728 effect of 2-butoxycarbonylmethylene-4-oxo--, effect on response of uterus to bradykinin and thiazolidine and phenylbutazone on, in rat, 24, 632 oxytocin, 25, 422 1-Arylcarbamoylmethylpiperidinium, synthesis of, 13, , effect on sensitivity of scorbutic guinea-pig to antigen and histamine aerosols, 24, 726 -, effect on trypanocidal action of butarsen, 14, 434 Arylmethoxydiguanides, antibacterial action of, 15, 244 Aryloxyalkylnorpethidines, analgesic action and toxicity -, effect on tyrosinase, 18, 416 of, 15, 247 in adrenals, as index of corticotrophin secretion, Asarone, effect on action of chlorpromazine and reserpine **18**, 344 on conditioned responses, electroconvulsions and , effect of benactyzine, chlorpromazine, phenofighting behaviour, in animals, 20, 438 barbitone and reserpine on, in stressed, nonstressed, -, effect on action of reserpine on 5-hydroxytrypthypophysectomized and hydrocortisone-treated rats, amine in brain, 20, 439 **19**, 459 -, effect on conditioned responses, fighting behaviour -, effect of blood from adrenalectomized, and electroconvulsions, in animals, 20, 436 stressed, hydrocortisone-treated rats on, 14, 215

Ascorbic acid, in adrenals (cont.) -, effect of chlorpromazine and perphenazine on, in mouse, 20, 504 effect of corticotrophin on, in hydrocortisonetreated rat, 15, 97 , effect of ether on, and action of benactyzine, chlorpromazine, phenobarbitone and reserpine, in rat, 19, 459 , —, effect of mustine, reserpine and saline on, in rat, 15, 166 -, effect of reserpine and stress on, 18, 341 , spectrophotometric determination of, 15, 96 **D-Asparagine**, effect on cortical neurones, 23, 317 effect on ventral root potentials in spinal cord, 16, 262 L-Asparagine, effect on cortical neurones, 23, 317 -, effect on peristaltic reflex, 15, 219 effect on ventral root potentials in spinal cord, 16, Asparagine4-oxytocin, response of uterus to, in man, 23, Asparagyl¹-valyl⁵-angiotensin. See Angiotensinamide Aspartic acid, effect on trypanocidal action of butarsen, D- and L-Aspartic acid, effect on ventral root potentials in spinal cord, 16, 262 , excitation of cortical neurones by, 23, 313 DL-Aspartic acid, effect on ventral root potentials in spinal cord, 16, 262 Aspergillus niger, effect of dichloroacetamide derivatives and related compounds on, 17, 286 Asphyxia, reflex pressor response to, effect of lysergide (lysergic acid diethylamide) on, 13, 251 See also Respiration Aspirin. See Acetylsalicylic acid Assays, biological. See Biological assays Ataractic agents, effect on ganglion-blocking action of adrenaline and mescaline, 23, 235 Ataxia. See Gait Atherosclerosis, experimental, effect on heart, 15, 333 Atoxyl, pKa value of, 14, 435 , trypanocidal action of, effect of p-aminobenzoic acid on, 14, 436 , trypanosome strains resistant to, cross-resistance, development and sensitivity of, in mouse, 14, 425 Atrial fibrillation. See Fibrillation, auricular Atrial flutter. See Flutter, auricular Atrial rate. See Auricular beat Atrium. See Auricle Atropine, antiacetylcholine action of, 17, 46; 24, 94 , antiacetylcholine and antihistaminic actions of, 16, 64 -, antiacetylcholine and antitremor actions of, 18, 247 , antiacetylcholine, antitremor, local anaesthetic and mydriatic actions and toxicity of, 14, 561 , bioassay of, using inhibition of carbachol- and methacholine-induced acid gastric secretion in rat, 13, 120 -, effect on acetylcholine in brain, in rat, 19, 231 -, effect on action of acetylcholine on response of auricular beat to sympathetic stimulation, 14, 375 , effect on action of acetylcholine on response of small intestine to histamine, 13, 18

, effect on action of acetylcholine, dimethylurethane

and physostigmine on response of hypogastric nerve-vas deferens preparation to electrical stimula-

, effect on action of acetylcholine, physostigmine and

tranylcypromine on response of hypogastric nerve-

vas deferens preparation to electrical stimulation, 24,

tion, 24, 644

645

Atropine (cont.) , effect on action of amphetamine, carbachol and noradrenaline on effect of guanethidine on response of vas deferens preparations to electrical stimulation, -, effect on action of arecoline on conditioned reflex, in rat, 23, 344 effect on action of bretylium on response of heart beat to nerve stimulation, 14, 542 , effect on action of carbachol on effect of bathcalcium concentration on response of vas deferens preparations to electrical stimulation, 25, 250 -, effect on action of choline on response of uterus to oxytocin, 16, 47 , effect on action of dopamine, ephedrine and noradrenaline on response of small intestine to histamine, 16, 29 -, effect on action of guanethidine on response of sympathetic nerve-intestinal segment preparation to electrical stimulation, 17, 247 , effect on action of hexamethonium on response of blood pressure to AHR602, dimethylphenyl-piperazinium, McN-A-343, noradrenaline and physostigmine, in rat, 23, 36 -, effect on action of iproniazid, nialamide, phenelzine and tranylcypromine on spontaneous uterine activity, 25, 219 -, effect on action of α-methyltryptamine on cerebral cortical activity, in cat, 24, 666 -, effect on action of morphine on gastrointestinal propulsion, in rat, 14, 32 , effect on action of neostigmine on effect of chlorisondamine on response of blood pressure to carotid occlusion and dimethylphenylpiperazinium, 21, 327 , effect on action of neostigmine on effect of chlorisondamine on response of blood pressure to carotid occlusion and of nictitating membrane to preganglionic nerve stimulation, 21, 326 -, effect on action of neostigmine on response of blood pressure and autonomic ganglionic transmission to chlorisondamine and hexamethonium, 21, 325 -, effect on action of phenoxybenzamine on response of auricular beat to acetylcholine, 20, 530 -, effect on action of phenoxybenzamine and phentolamine on response of blood pressure to adrenaline and noradrenaline, 23, 593 , effect on action of physostigmine on response of hypogastric nerve-vas deferens preparation to electrical stimulation, 23, 545 -, effect on action of physostigmine on response of nictitating membrane to postganglionic nerve stimulation, 20, 84 -, effect on action of physostigmine on response of deferens to sympathetic stimulation, 528 , effect on action of reserpine on response of auricular beat to sympathetic stimulation, 14, 375 , effect on action of reserpine on response of Finkleman ileum preparation to electrical stimulation, 19, 90 , effect on action of serpentine on response of small intestine to histamine, 16, 149 effect on action of sympathomimetic amines on flow through bile duct, 23, 106 -, effect on action of tranquillizers on arousal threshold and electrocorticogram, 14, 343

, effect on action of vagal stimulation on aconitine-

, effect on action of vagal stimulation on gastric

induced atrial flutter, 21, 369

motility, in rat, 17, 41

Atropine (cont.)

effect on adenine nucleotides, inorganic phosphate

, effect on adrenergic blocking action of xylocholine

-, effect on anaesthesia and cerebral acetylcholine

and phosphocreatinine in brain, in rat, 25, 631

(choline 2,6-xylyl ether), 14, 478

-, effect on peristalsis, in rat, 23, 22, 27

amine and methacholine, 13, 450

rat, 23, 24

, in small intestine from tryptophan-deficient

, effect on peristaltic reflex, action of 5-hydroxytrypt-

Atropine (cont.)

, effect on postganglionic response of neostigmine-

treated superior cervical ganglion to acetylcholine

effect on potentials in vas deferens before and

during hypogastric and intramural stimulation, 23,

to phenoxybenzamine, in vagotomized dog, 16, 9

bladder to 5-hydroxytryptamine, in rat, 24, 594

bladder to acetylcholine, in rat, 24, 592

, effect on response of blood pressure and urinary

effect on response of blood pressure and urinary

and preganglionic stimulation, 20, 217

changes induced by pentobarbitone, in rat, 19, , effect on reflex transmission in spinal cord, 19, 537 -, effect on antidiuretic and hypotensive actions of effect on release of oxytocin, and action of acetylcholine, in lactating rat, 17, 301, effect on response of acid gastric secretion to veratridine, 14, 76 -, effect on antidotal action of oximes in anticholinesterase poisoning, 14, 197 histamine, in rat, 17, 41 , effect on asynchronous postganglionic firing from -, effect on response of arterial blood flow to symsuperior cervical ganglion induced by neostigmine, pathomimetic amines, in cat, 25, 130 -, effect on response of auricular beat to aconitine, 15, 453 and action of neostigmine and preganglionic stimulation, 20, 216 -, effect on atrial flutter induced by aconitine, 21, 370 , effect on response of auricular beat to dimethylphenylpiperazinium, 14, 506 -, effect on behaviour, in pigeon, 17, 9 , effect on response of auricular beat to nicotine and -, effect on behaviour and on amines and their acid quaternary methyl derivative of dopamine, 23, 62 metabolites in brain, 24, 768 , effect on response of auricular beat and small -, effect on bronchoconstrictor action of acetyl-choline, 19, 194 intestine to acetylcholine, and action of phenoxybenzamine, 20, 530 , effect on bronchoconstrictor action of acetyleffect on response of blood pressure to AHR602, choline and bradykinin, 15, 294 McN-A-343 and physostigmine, in rat, 23, 36 -, effect on response of blood pressure to acetyl-choline, adenosine, adrenaline, 5-hydroxytryptamine and noradrenaline, in rat, 15, 136 , effect on bronchoconstrictor action of acetylcholine and histamine, 14, 52 , effect on bronchoconstrictor action of acetylcholine, histamine and 5-hydroxytryptamine, in , effect on response of blood pressure to acetylguinea-pig, 15, 563 choline and synthetic bradykinin-like polypeptide, , effect on bronchoconstrictor action of antigen and 15, 549 -, effect on response of blood pressure to acetyl-choline and uridine nucleotides, 22, 262 bradykinin, 15, 605 , effect on bronchoconstrictor action of eledoisin, 19, , effect on response of blood pressure to adrenaline, , effect on bronchoconstrictor action of slow-reacting noradrenaline and physostigmine, in rat, 21, 273 substance produced in anaphylaxis, 23, 205 , effect on response of blood pressure to benzo--, effect on carotid sinus reflexes, 13, 257 quinonium, 13, 522 effect on central and lethal actions of compound , effect on response of blood pressure to bradykinin, 48/80, in mouse, 14, 244 in female rat, 19, 506 , effect on cholinesterase in brain, in sarin-poisoned , effect on response of blood pressure to crotonoylcholine and pent-2-enoylcholine, in physostigmine-treated cat, 13, 311 rat, 13, 402 -, effect on ciliary movement, 14, 326 -, effect on depressant action of acetylcholine and , effect on response of blood pressure to $\beta\beta$ -dimethylphysostigmine on idioventricular rhythm, 13, 416 acryloylcholine, 13, 311 , effect on electroencephalogram and on response to , effect on response of blood pressure to eledoisin, 20, 519, 521, 522, 523 reticular stimulation and touch, in cat, 13, 487 , effect on emesis and pecking induced by apomor-, effect on response of blood pressure to isoprenaline, phine, in pigeon, 16, 141 in cat, 21, 383 , effect on ganglionic and nervous transmission, selectivity of, 23, 273 -, effect on response of blood pressure to noradrenaline, in pithed rat, 16, 356 , effect on ganglionic potentials and block induced -, effect on response of blood pressure to oxytocin by acetylcholine and tetramethylammonium, 23, 84 and vasopressin, in chicken, 16, 131 effect on ganglion-stimulating action of acetyl-, effect on response of blood pressure to physalaemin, **25**, 383, 387 choline, carbachol and potassium ions, 23, 262 -, effect on response of blood pressure to splenic effect on gastric haemorrhage and erosion induced extracts, and action of promethazine, 14, 394, effect on response of blood pressure to vasoactive by reserpine, 14, 113 -, effect on gastrointestinal propulsion, 14, 32 -, effect on hypothermia, tremor and other peripheral parasympathetic effects induced by Tremorine, 25, material in brain extracts, 22, 115 , effect on response of blood pressure and cardiac 446, 450 output to phenyldiguanide, in cat, 13, 374 , effect on inflammation induced by formaldehyde, , effect on response of blood pressure and heart beat to imidazoleacetylcholine, 13, 380 in mouse, 16, 165 -, effect on intestinal motility, 15, 324; 16, 214 , effect on response of blood pressure and heart beat , effect on oxygen consumption of chick amnion, 21, to leptodactyline, 15, 17 291 , effect on response of blood pressure and heart beat

Atropine (cont.)

- , effect on response of blood vessels to acetylcholine and sympathetic stimulation, 19, 518
- , effect on response of blood vessels to adrenaline and noradrenaline, 23, 596
- effect on response of blood vessels to angiotensin. bradykinin, oxytocin, substance P and vasopressin, 19, 175
- , effect on response of blood vessels and secretion of parotid gland to nerve stimulation, 13, 227
- , effect on response of bronchial muscle to angiotensin and substance P, in guinea-pig, 19, 192
- -, effect on response of cardiac nerve-pulmonary artery preparation to electrical stimulation, 22, 178 -, effect on response of chick amnion to acetylcholine,
- carbachol, methacholine and physostigmine, 21, 286 , effect on response of chick amnion to electrical and
- mechanical stimulation, 21, 290
- , effect on response of chick amnion to potassiumexcess, 21, 289
- , effect on response of chick amnion to veratrum alkaloids, 21, 287
- , effect on response of circular muscle strip of ileum to acetylcholine, histamine, 5-hydroxytryptamine and nicotine in presence of anticholinesterase, 20, 402
- , effect on response of circular muscle strip of ileum to mipafox, 20, 401
 - , effect on response of decentralized nictitating membrane to SK&F 90,109, 23, 491
- , effect on response of denervated nictitating membrane to acetylcholine and bretylium, in adrenalectomized cat, 14, 541
- effect on response of electrically driven auricle, 21,
- , effect on response of Finkleman ileum preparation to electrical stimulation, and action of carbachol (carbaminoyl choline), 19, 87
- , effect on response of heart beat to butyrylcholine, 23, 401
- effect on response of hypogastric nerve-vas deferens preparation to electrical stimulation, 20, 303; 23, 601; **24**, 644
- -, and action of hemicholinium, 15, 590 , and action of physostigmine, 23, 545
 - -, effect on response of large intestine to acetyl-choline and nerve stimulation, 23, 158, 160
- , effect on response of large intestine to dihydromurexine, 13, 381
- , effect on response of large intestine to imidazoleacetylcholine, 13, 380
- effect on response of large intestine to imidazolebutyrylcholine, -carboxycholine, -methoxycholine and -propoxycholine, 13, 382
- , effect on response of large intestine to vasopressin, **24**, 161
- -, effect on response of large and small intestine to eledoisin, 19, 341, 344
- , effect on response of large and small intestine to physalaemin, 25, 372
- , effect on response of molluscan smooth muscle to acetylcholine, 14, 405
- -, effect on response of nictitating membrane to acetylcholine, and action of hexamethonium, 22, 564 -, effect on response of nictitating membrane to adrenaline and noradrenaline, and action of physostigmine, 20, 86
- , effect on response of nictitating membrane to postganglionic nerve stimulation, and action of physostigmine, 20, 86

Atropine (cont.)

- , effect on response of nictitating membrane to sympathetic stimulation, 22, 570
- , in normal and reserpinized cats, 15, 57
- effect on response of pulmonary artery to acetylcholine, 22, 177
- , effect on response of rectal caecum to acetylcholine, 17, 147
- , effect on response of respiration to $\beta\beta$ -dimethylacryloylcholine, 13, 309
- , effect on response of small intestine to acetyl-
- choline, 13, 18; 14, 53; 16, 26

 -, effect on response of small intestine to acetylcholine, angiotensin, histamine and nicotine, 19, 10
 - , effect on response of small intestine to acetylcholine and echothiophate, 18, 289
 - , effect on response of small intestine to acetylcholine, central nervous tissue extracts and hist-amine, 25, 298
- , effect on response of small intestine to acetylcholine and 3,3-dimethylbutyl acetate, 25, 8
- , effect on response of small intestine to acetyl-choline, histamine, 5-hydroxytryptamine and staphylococcal a-toxin, 25, 785
- , effect on response of small intestine to acetyicholine, histamine and splenic extracts, 14, 396
- , effect on response of small intestine to acetyl-choline, histamine and synthetic bradykinin-like polypeptides, 15, 546
- , effect on response of small intestine to acetylcholine and peptone, 15, 225
- effect on response of small intestine to barium ions, histamine, 5-hydroxytryptamine and nicotine, and action of morphine, 13, 297
- effect on response of small intestine to bretylium, 14, 544
- effect on response of small intestine to choline 3-isobutyl-1-methyl-6-thioxanthinate, theophyllinate and 6-thiotheophyllinate, 16, 67
- , effect on response of small intestine to Gluta renghas extracts, 15, 441
- , effect on response of small intestine to histamine,
- , effect on response of small intestine to histamine and sympathetic stimulation, 16, 25
- , effect on response of small intestine to 5-hydroxytryptamine and Prymnesium parvum toxin, 22, 52
- , effect on response of small intestine to pempidine, 13, 344
 - -, effect on response of small intestine to staphylococcal a-toxin, 14, 63, 64
- , effect on response of splenic muscle to adrenaline and 5-hydroxytryptamine, 19, 431
- , effect on response of splenic volume to sympathetic stimulation, in reserpinized cat, 15, 58
- , effect on response of sterno-trachealis preparation to indirect stimulation, 18, 614
- -, effect on response of stomach to acetylcholine and central nervous tissue extracts, 25, 302
- , effect on response of stomach to acetylcholine, central nervous tissue extracts and 5-hydroxytryptamine, 25, 300
- effect on response of Tapes heart to acetylcholine, **25**, 487
- , effect on response of tortoise intestine to acetylcholine, histamine and 5-hydroxytryptamine, 13, 115
- effect on response of trachea to acetylcholine, barium ions and 5-hydroxytryptamine, 19, 289
- effect on response of trachea to transmural stimulation, 22, 130

Atropine (cont.) Atropine (cont.) , intracisternal, response of respiration to, in , effect on response of tracheal muscle to acetylcholine, histamine, neostigmine, nicotine and physostigmine, 21, 139 anaesthetized dog, 15, 171 , intravenous and intraventricular, effect on actions , effect on response of tracheal ring to acetylcholine, of intraventricular ethyl pyrophosphate, in conscious 13, 497 dog, 18, 24 effect on response of trout gut to acetylcholine, 13, -, intraventricular, effect on drug-induced tremor, in 220, 223 cat, 15, 578 -, pharmacological actions of, in conscious dog. , effect on response of trout gut to nerve stimulation, **18**, 19 **13**, 221, 223 , effect on response of urinary bladder to acetyl-, and its methonitrate, effect on acetylcholine in choline and bradykinin, 24, 179, effect on response of urinary bladder to acetylbrain, in rat, 23, 124 , ganglion-blocking action of, 15, 147 choline, muscarine, nicotine and transmural stimula--, mydriatic action of, effect of reserpine on, in tion, 25, 288 mouse, 23, 342 , effect on response of urinary bladder to dimethyl--, pharmacological actions and side-effects of, in phenylpiperazinium and nicotine, in rat, 24, 594 man, 13, 184 effect on response of urinary bladder to neostig--, response of pulmonary artery to, 22, 178 mine and physostigmine, in rat, 24, 593 -, response of smooth muscle of chick amnion to, 18, -, effect on response of urinary bladder to nerve stimulation, 24, 181, 596 551 , and effect of lignocaine and veratrum alkaloids on, 21, 287 , effect on response of uterus to acetylcholine, in dog, **15**, 59 -, response of terminal tract of bile duct to, and effect on response of uterus to acetylcholine, 5effect of adrenaline on, 20, 227 hydroxytryptamine and splenic extracts, 14, 39 -, response of trachea to, 19, 290 , effect on response of uterus to acetylcholine, 5-hydroxytryptamine and staphylococcal α -toxin, -, response of tracheal ring to, 13, 496 -, response of trout gut to, 13, 220 25, 787 , with oximes, as antidote in anticholinesterase -, effect on response of uterus to eledoisin, 19, 348 poisoning, 14, 5 -, effect on response of uterus to physalaemin, 25, 375 , as antidote in organophosphate poisoning, **14**, 189; **15**, 276 -, effect on response of uterus to sympathetic stimula-, with pralidoxime, successful treatment of organotion, in normal and reserpinized cats, 15, 59 , effect on response of vagus nerve-stomach muscle phosphate poisoning with, cerebral cholinesterase preparations to electrical stimulation, 22, 406 activity after, 15, 432 effect on response of vas deferens to acetylcholine, , with and without pralidoxime (pyridine-2-aldoxime methyl methanesulphonate), in sarin poisoning, 15, **20**, 301 -, effect on response of vas deferens to acetylcholine 171 and transmural stimulation, 21, 576 Atropine N-butyl bromide. See N-Butylatropinium -, effect on response of venous preparations to acetylbromide choline, 24, 746 Atropine methiodide, antiacetylcholine and antitremor -, effect on restarting of cold-arrested atrium by actions of, 14, 564 warming, 14, 495 Atropine methonitrate, bioassay of, using inhibition of -, effect on sialogenous action of adrenaline, 22, 122 methacholine-induced acid gastric secretion in rat, -, effect on sialogenous action of 4-m-chlorophenyl-**13**, 122 carbamoyloxybut-2-ynyltrimethylammonium, , effect on hypothermia, tremor and other peripheral methylphenylpiperazinium and pilocarpine, 18, 507 parasympathetic effects induced by Tremorine, 25, -, effect on sialogenous action of physalaemin, 25, 376 -, effect on sialogenous action of pronethalol, in rat, 25, 137 -, effect on toxicity of yohimbine, 21, 57 , response of chick amnion to, 21, 287 , effect on spasmogenic action of leptodactyline, 15, Atropine-like action, of antiadrenaline agents, 15, 528 -, of *N-p*-cyclohexylbenzyltropinium derivatives, 21, 21 of bretylium, 17, 83 effect on spontaneous activity of venous preparations, 24, 743 , effect on tachycardia induced by imipramine, in , of hyoscine and its methobromide, methanthelinreserpinized rat, 23, 337 ium, oxyphenonium and propantheline, in man, 13, -, effect on toxicity of pralidoxime (2-hydroxyimino-184 methyl-N-methylpyridinium methanesulphonate), 13, -, of lignocaine, **13**, 489 205 , of pyridinium aldoximes, 14, 198 -, effect on toxicity of yohimbine, 21, 57
-, effect on uptake of 5-hydroxytryptamine by blood Atropine-like agents, effect on hypothermia, tremor and other peripheral parasympathetic effects induced by Tremorine, 25, 445, 450 platelets, 16, 291 , effect on uptake of noradrenaline by heart, in -, ganglion-blocking action of, 15, 147 pithed rat, 16, 356 -, pharmacological actions and side-effects of, in -, effect on vasodilator action of nicotine, 18, 43 man, 13, 184 -, effect on water diuresis, 14, 76 Aureomycin. See Chlortetracycline -, ganglion-blocking action of, 23, 243 Auricle, adrenaline in, effect of reserpine on, 18, 604 mechanism of, in rat, 24, 89 , cold-arrested, restarting by warming, effect of -, inhibition of atrial fibrillation by, 13, 107 atropine on, 14, 495 , inhibition of methacholine-induced pancreatic , cold-arrested and normal, choline acetylase in, and secretion by, mechanism of, 13, 71 effect of acetylcholine and co-enzyme A on, 14, 494

Auricle (cont.) Auricular beat (cont.) contraction, conduction velocity, , response to adrenaline and isoprenaline, and effect electrical threshold and maximum driving frequency of, of dichloroisoprenaline and phenoxybenzamine on, effect of disopyramide, pronethalol and quinidine on, response to amphetamine, effect of bretylium on, electrically driven, conduction velocity, contrac-**15**, 119 tions and intracellular potentials of, effect of , response to butyrylcholine, noradrenaline and tyramine, effect of guanethidine, phenoxybenzamine quinidine on, and action of acetylcholine, 13, 276 and other sympatholytics on, 17, 232 , effect of stimulus frequency and strength on, and action of ajmaline, Dibenamine, papaverine, response to cocaine, and effect of reserpine on, 14, 386 procainamide, procaine, quinidine and serpajmaline -, —, effect of stimulus frequency and temperature on, 25, 557 -, response to dichloroisoprenaline and phenoxybenzamine, 19, 277 , response to dimethylphenylpiperazinium, and effect response to calcium ions, carbachol, digiof atropine, ephedrine, hexamethonium and physotoxin, lanatoside C and potassium ions, and effect of stigmine on, 14, 506 temperature on, 25, 557 , response to disopyramide, pronethalol and quinid-, —, response to ouabain, effect of stimulus frequency and temperature on, 25, 557 ine, **21**, 473 -, response to edetate, 25, 653 excitability of, effect of guanoxan and quinidine on, -, response to heptanolamines, and effect of atropine, cocaine, hexamethonium and reserpine on, 18, 51 24, 36 , extracellular water and intracellular potassium and -, response to 5-hydroxytryptamine, 20, 249 sodium ions in, effect of adrenaline on, 19, 282 , response to histamine, effect of dichloroisoprenaline (dichloroisoproterenol), diphenhydramine, hexamethonium and pempidine on, and action of guinea-pig, hen, rabbit and rat, determination of inotropic potency with, 21, 393 , ionic content of, effect of composition of organreserpine, 15, 500 bath on, 23, 75 -, response to murexine-like substances, 13, 379 , membrane potential of, role of choline acetylase in , response to nicotine, effect of hexamethonium and maintenance of, 14, 493 tetraethylammonium on, 15, 452 , noradrenaline in, effect of tyramine on, and action , response to nicotine and noradrenaline, and effect of noradrenaline and reserpine, 18, 600 of dichloroisoprenaline (dichloroisoproterenol) on, , potassium content and uptake of, effect of adrenal-**15**, 500 ine and isoprenaline on, and action of dichloro-isoprenaline and phenoxybenzamine, 19, 274 -, response to nicotine and parasympathetic and sympathetic stimulation, effect of low temperatures effect of dichloroisoprenaline on, 19, 277 on, **25**, 119 , quinidine-arrested and normal, electrical properties , response to nicotine and quaternary methyl derivative of dopamine, and effect of atropine and and excitatory mechanism of, effect of acetylcholine on, and action of adrenaline and hyoscyamine, 13, hexamethonium on, 23, 62 304 response to nicotine and tyramine, and effect of , refractory period of, effect of quinidine on, mode bretylium, noradrenaline and reserpine on, 16, 335 of action of, 13, 276 , response to noradrenaline, effect of acetylcholine -, release and uptake of noradrenaline by, and effect and atropine on, 14, 375 of cocaine, noradrenaline and tyramine on, 16, 344 , effect of cocaine on, and action of reserpine, , strips of, response to adrenaline, effect of pro-14, 387 nethalol and propranolol on, 25, 580 , effect of dichloroisoprenaline on, and action with sympathetic innervation, preparation of, 14, of noradrenaline and tyramine, 20, 247 372 , effect of edetate and thyroxine on, 25, 653 with sympathetic and vagal innervation, prepara--, effect of phenoxybenzamine on, and action tion of, 15, 117 of noradrenaline, 20, 248 See also Heart , effect of reserpine on, 16, 339 Auricular beat, effect of replacement of chloride in organ-bath fluid by ethanesulphonate, 14, 360 -, response to noradrenaline and tyramine, effect of cocaine on, 18, 51 , of heart from noradrenaline-treated rabbit, 25, 654 -, response to phenoxybenzamine, 20, 248 , of hearts from reserpine- and thyroxine-treated rabbits, 25, 652, of hearts from thyroxine-treated and untreated -, response to reserpine, 16, 339 , response to strophanthin-K, and effect of cocaine and reserpine on, 18, 51, 52 rabbits, response to noradrenaline, 25, 652 , response to β -substituted acryloyl- and propionyl-, response to acetylcholine, effect of antiadrenaline cholines, 13, 383 agents on, 20, 530 -, response to sympathetic stimulation, effect of , response to acetylcholine and atropine, effect of acetylcholine on, and action of atropine, 14, 375 bretylium and xylocholine (choline 2,6-xylyl ether) , and effect of cocaine, ganglion-blocking on, 15, 119 agents and phenoxybenzamine on, 14, 372 -, response to aconitine, and effect of acetylcholine, , effect of hemicholinium on, and action of atropine, hexamethonium, physostigmine and tetracholine, 15, 594 ethylammonium on, 15, 448 , effect of reserpine on, and action of atropine , response to adrenaline, and effect of cocaine on, and physostigmine (eserine), 14, 375 **14.** 386 , response to sympathetic and vagal stimulation, -, and action of reserpine, 14, 387 effect of bretylium and xylocholine (choline 2,6-xylyl

ether) on, 15, 118

-, effect of guanethidine on, 17, 257

-, effect of dichloroisoprenaline (dichloroiso-

proterenol) on, and action of reserpine, 15, 500

Azovan blue (Evans blue): Auricular beat (cont.) -, response to thyroxine, 25, 653 -, chromatographic behaviour of, 14, 425 -, response to tyramine, effect of bretylium and , effect on action of histamine on capillary permexylocholine (choline 2,6-xylyl ether) on, 15, 119 ability, 13, 13 -, and effect of cocaine on, 20, 245 -, effect on trypanosomes, in mouse, 14, 425 -, effect of dichloroisoprenaline on, and action , subcutaneous, effect on haemoglobin nitrite sensitivity reaction, 19, 492 of noradrenaline and tyramine, 20, 245 -, effect of phenoxybenzamine on, and action -, tissue staining by, 19, 495 of noradrenaline, 20, 245 -, toxicity of, **19**, 494 -, response to vagal stimulation, effect of cocaine and phenoxybenzamine on, 17, 234 , effect of hemicholinium on, and action of choline, 15, 595 See also Heart beat В Auricular fibrillation. See under Fibrillation Ba-20227. See 1-Diethylaminoethyl-2-p-methoxybenzyl-Auricular flutter. See under Flutter Autonomic blocking agents, effect on apomorphine-5-nitrobenzimidazole induced emesis and pecking, in pigeon, 16, 137 28882-Ba. See 2,4-Di(diethylamino)-6-(2-phenylacetylhydrazino)-1,3,5-triazine -, effect on response of blood pressure to oxytocin and vasopressin, in hen, 16, 131 -, effect on response of hypogastric nerve-vas BAB. See 1-Benzyl-3-(2-dimethylaminoethyl)-5-methoxy-2-methylindole deferens preparation to acetylcholine, electrical BAC 20. See Eicosamethylenebis(4-aminocinnolinium) stimulation and noradrenaline, 20, 303 BC-48. See NN'-Decamethylenebis[NNN-trimethyl-m--, effect on transmission in vas deferens, electro-(N-methylcarbamoyloxy)anilinium] BC-51. See NN'-Hexamethylenebis(N-methyl-3-methylphysiological investigation of, 23, 600 carbamoyloxypyridinium) See also Parasympatholytic agents Autonomic functions, effect of antidepressants and tranquillizers on, 23, 330 B.C. 7586. See a-p-s-Butylphenoxypropionic acid B.C. 8402. See a-p-Diphenylyloxypropionic acid B.C. 8422s. See a-p-Hydroxyphenoxypropionic acid Azacyclonol, effect on apomorphine-induced emesis and pecking, in pigeon, 16, 141 . 8424s. See a-p-Carboxyphenoxypropionic acid , effect on arousal threshold and electrocorticogram, BIQ 12. See Dodecamethylenebisisoquinolinium in cat, 14, 346 BIQ 20. See 1,1'-Eicosamethylenebisisoquinolinium , effect on ganglion-blocking action of adrenaline BOL 148. See 2-Bromolysergic acid diethylamide and mescaline, 23, 235 B.R.L. 403. See 2,3-Di(acetylthio)propyl acetate , effect on head-twitch response to 5-hydroxytrypto-B.R.L. 411. See 1,2,3-Tri(acetylthio)propane phan, in mouse, 20, 113 B.R.L. 459. See 3-Acetylthiopropylene sulphide B.L.R. 463. See 2,3-Dimercaptopropyl acetate -, effect on response of blood pressure and nictitating B.R.L. 464. See 2,3-Di(acetylthio)propanol B.R.L. 479. See 2,3-Dimercaptopropyl chloride membrane to adrenaline, a-methylnoradrenaline, noradrenaline and tyramine, 20, 545 B.R.L. 482. See 3-Mercaptopropylene sulphide -, ganglion-blocking action of, 23, 226 B.R.L. 489. See 3-(2,3-Dimercaptopropylthio)-2-mercap-, effect of repetitive preganglionic stimulation topropanol on, 24, 76 B.R.L. 504. See 2,3-Dimercaptopropyl propionate , and relation to anaesthetic action, 23, 241 B.R.L. 510. See 2,3-Dimercaptopropyl butyrate B.R.L. 528. See 2,3-Epithiobutanethiol 8-Azaguanine, effect on trypanosomes, in mouse, 14, 451 5-Azaindole, effect on neuronal excitation, 18, 236 B.R.L. 535. See 2,3-Di(propionylthio)propyl propionate B.R.L. 536. See 2,3-Di(butyrylthio)propyl butyrate **Azamethonium,** effect on response of blood pressure to eledoisin, **20**, 519, 523 B.R.L. 540. See 3-Propionylthiopropylene sulphide effect on response of blood pressure to physalaemin, **25**, 383 B.R.L. 546. See 1-Acetylthio-3,4-epithiobutane B.R.L. 550. See 2-(2-Mercaptopropylthio)ethanethiol Azapetine, effect on electroencephalogram, in cat, 13, 490 B.R.L. 553. See Di(2,3-epithiopropyl) disulphide B.R.L. 555. See 2-Mercapto-3-(2-mercaptopropyl) 6-Azauridine, site of antimetabolitic action of, 23, 90 See 2-Mercapto-3-(2-mercaptopropylthio)-6-Azauridine diphosphate, response of goldfish intestine to, 22, 256 propanol Azide, induction of ventricular fibrillation by, 13, 145 B.R.L. 561. See 3-Butyrylthiopropylene sulphide -, inhibitory action on Mytilus oxidase, 15, 630 B.R.L. 562. See 2-Acetylthio-3-(2-acetylthiopropylthio)--, in-vitro trypanocidal action on normal and stilbpropyl acetate B.R.L. 565. See Di(acetylthiomethyl)methyl toluene-pamidine-resistant trypanosomes, 14, 445 β -Aziridin - 1 - yl - p - chloro - α - dichloroacetamidopropio sulphonate phenone, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 287 B.R.L. 567. See 2,3-Dimercapto-1-methylpropyl chloride B.R.L. 571. See 3-Acetylthio-2-methylpropylene sulphide β-Aziridin-1-yl-α-dichloroacetamido-p-methanesulphon-B.R.L. 577. See 3,4-Epithiobutanethiol ylpropiophenone, amoebicidal, antifungal and tri-B.R.L. 578. See 1,1-Di(mercaptomethyl)ethyl chloride chomonicidal actions of, 17, 287 B.R.L. 580. See β -(2,3-Epithiopropylthiocarbonyl)- β -Aziridin-1-yl- α -dichloroacetamido-p-nitropropiophenpropionic acid one, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 287 B.R.L. 587. See 2,3-Dimercaptopropyl benzoate B.R.L. 590. See 3-Chloroacetylthiopropylene sulphide β - Aziridin - 1 - yl - α - dichloroacetamidopropiophenone, B.R.L. 595. See 3-Acetylthio-1,2-epithiobutane amoebicidal, antifungal, antitubercular and tri-chomonicidal actions of, 17, 287 B.R.L. 599. See 3,4-Epithiobutane-2-thiol B.R.L. 600. See Methyl β-(2,3-epithiopropylthiocarbon-

vl)propionate

Azo blue, effect on trypanosomes, in mouse, 14, 425

- B.R.L. 601. See 5-Acetylthio-1,2-epithiopentane
- B.R.L. 602. See Ethyl (2,3-epithiopropylthio)formate
- B.R.L. 605. See 3-Benzoylthiopropylene sulphide
- B.R.L. 609. See 2,3-Dimercaptobutyl chloride
- B.R.L. 615. See Ethyl (2,3-epithiopropylthiocarbonyl)acetate
- B.R.L. 617. See 3-Dichloroacetylthiopropylene sulphide B.R.L. 625. See 3-(β -Chloropropionylthio)propylene sulphide
- B.R.L. 629. See 3-Phenylacetylthiopropylene sulphide
- B.R.L. 635. See 3-Trichloroacetylthiopropylene sulphide
- B.R.L. 636. See 2,3-Dimercaptopropyl o-chlorobenzoate B.R.L. 637. See 2,3-Dimercaptopropyl p-chlorobenzoate
- B.R.L. 638. See 2,3-Dimercaptopropyl phenylacetate B.R.L. 643. See Ethyl (2,3-epithiopropylthiocarbonyl)-
- formate See 3-p-Chlorobenzoylthiopropylene sul-B.R.L. 649.
- phide
- B.R.L. 651. See 2,3-Dimercaptopropyl anisate
- B.R.L. 656. See 3-p-Nitrobenzoylthiopropylene sulphide
- B.R.L. 658. See 3-(2-Furoylthio) propylene sulphide B.R.L. 664. See N-(2,3-Epithiopropylthiocarbonylmethyl)phthalimide
- B.R.L. 668. See 2,3-Dimercaptopropyl a-naphthoate
- B.R.L. 669. See 3-p-Chlorophenoxyacetylthiopropylene sulphide
- B.R.L. 670. See 2,3-Dimercaptopropyl p-(toluene-psulphonamido)benzoate
- B.R.L. 671. See 2,3-Dimercaptopropyl (ethylthio)acetate B.R.L. 672. See 3-Diphenylacetylthiopropylene sulphide
- B.R.L. 673. See 2,3-Dimercaptopropyl (benzylthio)acetate
- B.R.L. 677. See 3-Ethylthioacetylthiopropylene sulphide B.R.L. 680. See 2-Mercapto-1-mercaptomethylethyl benzoate
- B.R.L. 681. See 3-Palmitoylthiopropylene sulphide
- B.R.L. 690. See Benzyl 2,3-epithiopropylthiocarbonylmethylcarbamate
- B.R.L. 693. See 2,3-Dimercaptopropyl β -(methylthio)propionate
- B.R.L. 707. See 2,3-Dimercaptopropyl 2,4-dichlorobenzoate
- B.R.L. 710. See 3-Hexanoylthiopropylene sulphide
- B.R.L. 711. See 3-(β -Acetylpropionylthio)propylene sulhide
- B.R.L. 721. See SS'-Terephthaloylbis(3-thiopropylene sulphide)
- B.R.L. 727. See N-(2,3-Epithiopropylthiocarbonylmethyl)benzamide
- B.R.L. 728. See 3-p-Phenylazobenzoylthiopropylene sulphide
- B.R.L. 733. See N-[p-(2,3-Epithiopropylthiocarbonyl)phenyl lacetamide
- B.R.L. 746. See Methyl (2,3-epithiopropylthio)formate B.R.L. 747. See 3-p-Chlorophenylacetylthiopropylene sulphide
- B.R.L. 748. See 3-(a-Chloro-a-phenylacetylthio)propylene sulphide
- B.R.L. 753. See Butyl (2,3-epithiopropylthio) formate
- B.R.L. 758. See 5-Acetylthio-1-acetylthiomethylpentyl
- B.R.L. 784. See 2,11-Dimercaptoundecanol
- B.R.L. 785. See 6-Acetylthio-1,2-epithiohexane
- B.R.L. 877. See 2,3-Di(acetylthio)propyl benzoate
- BRL 1060. See L(+)-6-(α -Amino- α -phenylacetamido)penicillanic acid
- B.R.L. 1241. See Methicillin, sodium salt
- BRL 1341. See Ampicillin
- BW 172C58. See [2-(4-Benzoyl-2,6-dimethylphenoxy)ethyl]trimethylammonium

- BW 189C56. See N^1 -(5,5-Di-p-chlorophenyl-5-cyanopentyl)- $N^1N^1N^2$ -trimethylethylene-1-ammonium-2morpholinium
- BW 284C51. See pp'-3-Oxopentamethylenebis(allyldimethylphenylammonium)
- BW 392C60. See N-o-Chlorobenzyl-N'N"-dimethyl-
- guanidine BW 467C60. See Bethanidine
- Babesia rodhaini infections, experimental, pharmacologically active polypeptides in blood and urine from animals with, 15, 152
- Bacillus anthracis, sensitivity to benzylpenicillin, cephaloram and cephalosporin C, 22, 24
- , sensitivity to cephalosporin C and its pyridinium derivative, 16, 173
- Bacitracin, effect on Theileria annulata in tissue culture, **13**, 459
- , in-vivo toxicity to skin, 14, 168
- Bacteria, intestinal, effect of antibiotics on, in mouse and rat, 16, 93
- , pathogenic, effect on kinin formation and destruction, 25, 67
- Bactericides. See Antibacterial agents
- Bacteriostats. See Antibacterial agents
- Bacterium friedlanderi, sensitivity to benzylpenicillin, cephaloram and cephalosporin C, 22, 24
- , sensitivity to cephalosporin C and its pyridinium derivative, 16, 173
- Ballistocardiogram, effect of adrenaline and heptanolamines on, and action of cocaine and reserpine, 18, 55
- , effect of k-strophanthoside on, 18, 56
- Barbitone, effect on response of small intestine to substance P, 21, 122
- -, effect on substance P in brain, in mouse, 21, 113
- -, ganglion-blocking action of, and relation to anaesthetic action, 23, 241
- , inhibitory action on histidine decarboxylase, 15, 552
- response of blood pressure to, 23, 249
- Barbiturates, antitetanic action in experimental local tetanus, 13, 335
- -, effect on action of imipramine on toxicity of yohimbine, 21, 58
- , effect on analgesic action of morphine and pethi-
- dine, in mouse, 24, 172 , effect on apomorphine-induced pecking, in pigeon,
- 17. 8 -, effect on head-twitch response to 5-hydroxytrypto-
- phan, in mouse, 20, 113 -, effect on insomnia and motility, in psychiatric
- patients, 20, 319
- , effect on pulse rate and performance of simple tasks and subjective effects, in man, 18, 490
- , effect on toxicity of yohimbine, 21, 59 -, hyperalgesic action of, in mouse, 24, 170
- -, hypnotic action of, effect of 2-amino-5-phenyl- and
- -thien-2'-yl-1,3,4-thiadiazole and meprobamate on, 13, 360
- , effect of benzethidine, furethidine and pethidine on duration of, 15, 256
- -, effect of thalidomide on, in mouse, 15, 114 response of blood pressure and respiration to, 23, 249
- See also under names of individual drugs
- Barbiturate-amphetamine mixtures, differential pharmacological actions of, in man, 24, 14
- , effect on pulse rate and performance of simple tasks and subjective effects, in man, 18, 490

Barbiturate-amphetamine mixtures (cont.)	Behaviour (cont.)
—, effect on voluntary activity, in rat, 21, 295	—, effect of tryptamine and its homologues on, in cat,
Barium carbonate, induction of kinin formation by, effect of hexadimethrine on, 22, 93	24, 659 ——, methods for quantifying, 25, 671
Barium ions, effect on response of potassium-depressed	, social, of laboratory rats, effect of drugs on,
phrenic nerve-diaphragm preparation to electrical	ethological and statistical analysis of, 24, 579
stimulation, 23, 193	See also Activity; Posture; and Rage
—, response of small intestine to, effect of atropine,	Bemegride (Megimide):
hexamethonium, hyoscyamine, levallorphan, mor-	——, analgesic action of, 24, 173
phine and nalorphine on, 13, 297 —, effect of benzethidine, furethidine and pethi-	—, convulsant action of, in mouse, 14, 416 —, effect on behaviour, blood pressure and electro-
dine on, 15, 257	encephalogram, in mouse, 24, 652
—, effect of chymotrypsin on, 24, 486	-, effect on ganglion-blocking action of amylo-
—, —, effect of chymotrypsin on, 24, 486 —, —, effect of hyoscine and methylpentynol and its	barbitone, 23 , 252
carbamate on. 14, 289	—, effect on ganglionic transmission, in cat, 23, 250
—, —, effect of morphine on, 15, 426 —, —, effect of oxolamine and papaverine on, 16,	—, effect on hyperalgesic action of phenobarbitone, in
214	mouse, 24, 173 ——, effect on hypnotic action and metabolism of
-, effect of (+)- and (-)- N -(1-phenylethyl)-	pentobarbitone, in rat, 18, 35
guanidine on, 24, 404	—, effect on hypothermia and tremor induced by
—, effect of staphylococcal β -haemolysin on, 17,	Tremorine, 25, 451
161	—, effect on protective action of thiopentone against
, response of smooth muscle to, effect of Colisan on,	audiogenic seizures, in mouse, 14, 416
15, 314	, effect on synaptic transmission, 19, 113
, response of terminal tract of bile duct to, and effect of adrenaline on, 20, 226	—, response of blood pressure to, in anaesthetized, curarized, decerebrate and spinal animals, 16 , 238
—, response of trachea to, and effect of adrenaline and	, response of heart beat to, 16, 239
atropine on, 19, 290	—, response of respiration to, in decerebrate and
, response of tracheal muscle preparations to, effect	pentobarbitone-treated animals, 16, 237
of prostaglandins on, 22, 515	—, tissue distribution and urinary excretion of, 14, 35
—, response of trout gut to, and effect of hexa-	Benactyzine, antiacetylcholine action of, in rat, 24, 94
methonium on, 13, 221 —, response of uterus to, effect of bethanidine on, 20,	—, antiacetylcholine and antitremor actions of, 18, 247—, antiacetylcholine, antitremor, local anaesthetic and
48	mydriatic actions and toxicity of, 14, 564
Bayer 7602, effect on Theileria annulata in tissue culture,	—, effect in experimental local tetanus, 13, 336
13, 459	—, effect on acetylcholine in brain, in rat, 19, 231
Behaviour, effect of acetylcholine, histamine and 5-	, effect on apomorphine-induced emesis and peck-
hydroxytryptamine on, in guinea-pig, 21, 159	ing, in pigeon, 16, 141
—, effect of adrenaline, dopamine, 5-hydroxytrypt- amine, noradrenaline and tryptamine on, and action	, effect on arousal threshold and electrocorticogram, and action of amphetamine, atropine and physostig-
of pheniprazine (phenylisopropylhydrazine), 17, 262	mine, in cat, 14, 344
—, effect of amphetamine on, action of amitriptyline,	——, effect on ascorbic acid in adrenals, in stressed, non-
chlorpromazine, chlorprothixene, desmethylimi-	stressed, hypophysectomized and hydrocortisone-
pramine, desmethylpromazine, imipramine and pro-	treated rats, 19, 458
mazine, in rat, 23, 335	, effect on ganglionic and nervous transmission,
, and action of chlorpromazine, 5-ethyl-5-	selectivity of, 23, 273 —, effect on ganglion-stimulating action of acetyl-
phenylpyrrolid-2-one, glutethimide, meprobamate and phenobarbitone on, 25, 794	choline, carbachol and potassium ions, 23, 262
—, effect of apomorphine on, action of chlorpromaz-	—, effect on hypnotic action of hexobarbitone, 13, 514
ine, imipramine and promazine, in rat, 23, 336	, effect on response of <i>Tapes</i> heart to acetylcholine,
—, effect of bethanidine on, 20, 48	25 , 488
, effect of bradykinin on, and action of acetylsalicyl-	——, ganglion-blocking action of, 23, 226
ate, amidopyrine, chlorpromazine, codeine, mor-	on, 24, 76
phine and phenylbutazone, in guinea-pig, 21, 155 —, effect of central depressants and stimulants on,	——. ——. mechanism of, in rat. 24, 89
relation to amines and their acid metabolites in	—, —, mechanism of, in rat, 24, 89 —, , and relation to anaesthetic action, 23, 241
brain, 24 , 763	3-Benzamidocoumarin, anticoagulant action of, 20, 29
—, effect of codeine and oxolamine on, 16, 212	p-(5-Benzamidopentoxy)anilinomethanesulphonic acid,
, effect of drugs on, after previous administration in similar environment, 20, 99	schistosomicidal action, retinotoxicity and toxicity
, effect of hyoscine, lysergide, mescaline and psilo-	of, 14, 468 Benzethidine, analgesic and other pharmacological actions
cybin on, in rat, 25, 632	and toxicity of, 15, 247
—, effect of kallidin-10 on, in guinea-pig, 21, 155	—, pharmacological actions and toxicity of, 15, 254
—, effect of pH and tonicity of intradermal injections	Benzethonium, effect on induction of kinin formation by
on, in guinea-pig, 21, 157	glass, 22, 94
—, effect of reserpine on, in dog, 18, 192 —, effect of SK&F 90,109 and 90,238 on, in mouse,	Benzhexol, antiacetylcholine and antitremor actions of, 18, 247
23, 497	, antiacetylcholine, antitremor, local anaesthetic and
—, effect of N-substituted tryptamines on, in animals,	mydriatic actions and toxicity of, 14, 561
23, 49	-, effect in experimental local tetanus, 13, 336

Benzhexol (cont.)

, effect on apomorphine-induced emesis and peck-

ing, in pigeon, 16, 142

, effect on hypothermia, tremor and other peripheral parasympathetic effects induced by Tremorine, 25, 447, 450

- , effect on response of small intestine to substance P,
- -, effect on substance P in brain, in mouse, 21, 113
- , intraventricular, effect on drug-induced tremor, in cat, 15, 578
- Benzidine, effect on trypanocidal action of butarsen, 14,
- Benzimidazole, derivatives of, effect in experimental local tetanus, 13, 336
- , effect on neuronal excitation, 18, 236
- , paralysing action of, 13, 358
- β -1-Benzimidazolylpropionthioamide, effect in experimental vaccinia infections, properties and synthesis of, 15, 101
- 4.5- and 6.7-Benzisatin β -thiosemicarbazone, antiviral action, properties and synthesis of, 15, 101
- 1-(1,4-Benzodioxan-2-ylmethyl)-1-benzylhydrazine, effect on action of reserpine on urinary excretion of catechol amines, in normal rat and rat without adrenal medullae, 23, 532
- Benzoic acid, effect on free fatty acids in plasma, in rat, 25, 190
- , effect on liver-reduced glutathione, in rat, 16, 182 , effect on trypanocidal action of butarsen, 14, 434
- Benzopurin 4B, effect on trypanosomes, in mouse, 14, 425 Benzoquinonium, effect on action of ethonium ions on response of popliteal nerve-gastrocnemius preparation to electrical stimulation, 24, 227
- -, effect on anticurare action of acetylcholine, adrenaline, decamethonium, potassium ions and suxamethonium, 13, 527
- -, effect on anticurare action of choline, 14, 459 -, effect on anticurare action of edrophonium, ethyl pyrophosphate (tetraethyl pyrophosphate), neostigmine and physostigmine (eserine), 13, 525
- -, effect on response of molluscan smooth muscle to acetylcholine, 14, 405
- -, effect on response of popliteal nerve-gastrocnemius preparation to electrical stimulation, 24, 227
- , effect on response of striated muscle to acetylcholine and indirect stimulation, action of ambenonium, edrophonium, methoxyambenonium and neostigmine, 20, 66
- , effect on response of *Tapes* heart to acetylcholine,
- **25**, 485, 486 effect on response of Tapes heart to arecoline,
- butyrylcholine and propionylcholine, 25, 486 effect on response of Tapes heart to tubocurarine,
- , neuromuscular blocking action of, effect of acetylcholine, choline, decamethonium, edrophonium and suxamethonium on, 14, 459
- -, effect of ethonium ions on, 24, 227
- -, effect of tetraethylammonium on, 14, 463 neuromuscular blocking and other pharmacological
- actions of, in cat and fowl, 13, 521 Benzothiazole, derivatives of, antimicrobial actions of, 17,
- N-(Benzothiazol-2-ylmethyl)- $\alpha\alpha$ -dichloro-N-2-hydroxyethylacetamide, amoebicidal action of, 17, 293
- 3a-O-Benzoyl-N-p-cyclohexylbenzyl-N-ethylnortropinium, pharmacological actions and toxicity of, 21, 10
- 3a-O-Benzoyl-N-p-cyclohexylbenzyltropinium, pharmacological actions and toxicity of, 21, 10

- [2-(4-Benzoyl-2,6-dimethylphenoxy)ethyl]trimethylammonium, effect on urine flow, 17, 464, local anaesthetic action of, 17, 97
- subcutaneous, distribution in peripheral nervous system and other tissues, in cat, 17, 92
- Benzoylglycine, effect on trypanocidal action of butarsen, 14, 434
- N-2-Benzoyloxyethyl-aa-dichloro-N-p-methylsulphonyl-
- benzylacetamide, amoebicidal action of, 18, 131 4-Benzoyloxymethyl-2-phenyldithiolan, effect on Mycobacterium tuberculosis, 15, 488
- 3-Benzoylthiopropylene sulphide, antitubercular action and toxicity of, 15, 485
- Benztropine, antiacetylcholine and antitremor actions of, 18, 247
- -, antiacetylcholine, antitremor, local anaesthetic and mydriatic actions and toxicity of, 14, 561
- -, effect on central action of thioproperazine, 22, 310 -, effect on hypothermia, tremor and other peripheral parasympathetic effects induced by Tremorine, 25,
- 447, 450 Benzyl 2,3 epithiopropylthiocarbonylmethylcarbamate, antitubercular action and toxicity of, 15, 485
- Benzylamine, enzymic oxidation of, effect of p-xylylene diamine on, 14, 365
- Benzylamine oxidase, substrate specificity of, 14, 364
- 2-Benzylamino-2,3-dimethylbicyclo[2,2,1]heptane, ganglion-blocking action and synthesis of, 15, 209
- 2-Benzylamino-3-phenylbicyclo [2,2,1]heptane, ganglionblocking action and synthesis of, 15, 209
- 4 Benzyl 2,6 dibromoresorcinol, anti inflammatory action and toxicity of, 22, 221
- 1-Benzyl-3-(2-dimethylaminoethyl)-5-methoxy-2-methylindole (BAB; 1-benzyl-5-methoxy-2,NN-trimethyltryptamine):
- , effect on head-twitch response to 5-hydroxytryptophan, in mouse, 20, 113
- effect on response of stomach-strip preparation to 5-hydroxytryptamine and tryptamine, 14, 105
- , neurone-depressant action of, 18, 230 N-Benzyl-N'N"-dimethylguanidine. See Bethanidine
- N-Benzyl-N-ethylguanidine, effect on ganglionic and neuromuscular transmission and toxicity of, 24,
- , response of nictitating membrane to, 24, 288
- N-Benzylguanidine, adrenergic neurone-blocking action of, 24, 395
- , effect on cardiac noradrenaline, eyelid and monoamine oxidase, 24, 408
- 1-Benzylisatin β -thiosemicarbazone, antiviral action, properties and synthesis of, 15, 101
- 1 Benzyl 5 methoxy 2 methyltryptamine. See 3 -(2-Aminoethyl)-1-benzyl-5-methoxy-2-methylindole
- N-Benzyl-N-methylguanidine, adrenergic neurone-blocking action of, 24, 395
- , effect on ganglionic and neuromuscular transmission and toxicity of, 24, 282 , response of nictitating membrane to, 24, 288
- 3-Benzyl-1-methyl-6-thioxanthine, choline salt, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, 17, 197
- Benzyloxyamine, antibacterial action of, 15, 243 5-Benzyloxy-3-(2-dibutylaminoethyl)indole, response of
- stomach-strip preparation and uterus to, 14, 265 5 Benzyloxy 3 (2 diethylaminoethyl)indole, effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 267
- , response of stomach-strip preparation and uterus to, 14, 265
- N¹-Benzyloxydiguanide, antibacterial action of, 15, 244

- 5-Benzyloxy-3-(2-di-isopropylaminoethyl)indole, effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 267
- -, response of stomach-strip preparation and uterus to, 14, 265
- 5-Benzyloxy-3-(2-dimethylaminoethyl)indole (5-benzvloxy-N'N'-dimethyltryptamine):

-, effect on amine-oxidase activity, 16, 153

- -, effect on response of morphine-treated small intestine to acetylcholine, histamine, 5-hydroxytryptamine and nicotine, 14, 556
 -, effect on response of phenoxybenzamine-treated
- small intestine to 5-hydroxytryptamine, 14, 556
- , effect on response of stomach-strip preparation to acetylcholine, 5-hydroxytryptamine and tryptamine, **14**, 269
- , effect on response of stomach-strip preparation to 5-hydroxytryptamine and tryptamine, 14, 99
- effect on response of uterus to acetylcholine, 5-
- hydroxytryptamine and tryptamine, 14, 99, effect on response of uterus to 5-hydroxytryptamine, 14, 267
- -, response of morphine- and phenoxybenzamine-treated small intestine to, 14, 557
- , response of stomach-strip preparation and uterus to, 14, 99, 265
- 5-Benzyloxy-3-(2-dimethylaminoethyl)indole and methiodide, response of stomach-strip preparation and uterus to, 14, 265
- 5-Benzyloxy-N'N'-dimethyltryptamine. See 5-Benzyloxy-3-(2-dimethylaminoethyl)indole
- Benzyloxydiphenylacetyltropeïne, antiacetylcholine, antitremor, local anaesthetic and mydriatic actions and toxicity of, **14**, 563
- 5-Benzyloxy-3-(2-dipropylaminoethyl)indole, effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 267
- -, response of stomach-strip preparation and uterus to, 14, 265
- Benzyloxyethylnorpethidine. See Benzethidine
- 5-Benzyloxygramine, effect on response of morphinetreated small intestine to histamine, 5-hydroxytryptamine and nicotine, 14, 556
- , effect on response of phenoxybenzamine-treated small intestine to 5-hydroxytryptamine, 14, 556
- -, effect on response of stomach-strip preparation to acetylcholine, 5-hydroxytryptamine and tryptamine,
- , effect on response of stomach-strip preparation to 5-hydroxytryptamine and tryptamine, 14, 99
- , effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 99
- -, effect on uptake of 5-hydroxytryptamine by blood platelets, 16, 291
- -, response of morphine- and phenoxybenzamine-treated small intestine to, 14, 557
- -, response of stomach-strip preparation to, 14, 99 5 - Benzyloxy - 3 - (2 - morpholinoethyl)indole, effect on response of uterus to acetylcholine, 5-hydroxytryptamine and tryptamine, 14, 267
- , response of stomach-strip preparation and uterus to, 14, 265
- Benzylpenicillin, antibacterial action of, effect of serum on, 25, 645
- -, and synergism with other antibiotics, 22, 24 -, in-vitro antibacterial action against Corynebacterium ovis, 13, 232
- , binding by plasma proteins of various species at body temperature, 25, 507
- -, binding by serum proteins of various species, 25, 638

- Benzylpenicillin (cont.)
- , effect in experimental infections with *Diplococcus* pneumoniae, Klebsiella pneumoniae, Salmonella typhimurum, Staphylococcus aureus and Streptococcus pyogenes, in mouse, 18, 365

effect in experimental Leptospira zanoni infections, in mouse, 20, 237

- , effect in experimental staphylococcal infections, in animals, 21, 351
- -, in-vitro effect on Hymenolepis nana, 15, 437
- , effect on local reaction to intradermal diphtheria toxin, and old tuberculin in guinea-pig, 13, 235
 - -, excretion in bile, 17, 420
- -, intramuscular, absorption of, 18, 360; 21, 343
 - , in-vivo local antibacterial action and intradermal toxicity of, 13, 231
- , procaine salt, in-vitro antibacterial action against Corynebacterium ovis, 13, 232
- , in-vivo antibacterial action and intradermal toxicity of, 13, 231
- , effect in experimental Leptospira zanoni infections, in mouse, 20, 237
- , in-vitro sensitivity of Australian leptospiral serotypes to, 20, 232
 - , in-vitro toxicity to skin, 14, 168
- N-Benzyl-N-phenylguanidine, effect on ganglionic and neuromuscular transmission and toxicity of, 24, 282 , response of blood pressure to, 24, 288
- 4- and 5-Benzylresorcinol, anti-inflammatory action of,
- 1-Benzyl-2,2,6,6-tetramethylpiperidine, ganglion-blocking action of, 13, 502
- 5-Benzyl-2-thiohydantoin, antithyroid action of, 13, 351 Benzyltrimethylammonium, effect on junctional transmission, 18, 520
- N-Benzyltryptamine. See 3-(2-Aminoethyl)-1-benzylindole
- Bephenium, anthelmintic action in experimental nematode infections, in mouse, 17, 323
- **Berenil**, effect on *Theileria annulata* in tissue culture, 13. 459
- , trypanocidal action on normal and drug-resistant trypanosomes and toxicity of, in mouse, 14, 425 Betamethasone, effect on arthritis induced by myco-
- bacterial adjuvant, in rat, 21, 127
- Bethanechol, response of partially and completely denervated striated muscle to, 17, 64
- Bethanidine, block of baroreceptor reflex by, in man, 23,
- , and its o-chloro-derivative, adrenergic neurone blockade and other acute effects induced by, 20, 36
- , effect on response of blood flow to adrenaline and noradrenaline, 25, 503
- , effect on response of blood pressure to adrenaline
- and noradrenaline, 25, 501, effect on response of blood vessels to adrenaline, noradrenaline and sympathetic stimulation, 25, 502
- , effect on response of nictitating membrane to adrenaline, noradrenaline and sympathetic stimulation, 25, 499
- , effect on response of peripheral blood flow to noradrenaline, in man, 23, 118
- , effect on response of smooth muscle preparations to sympathetic stimulation, 22, 349
- , intravenous and oral, absorption and excretion of, in man, 24, 701
- -, response of nictitating membrane to, 25, 499
- , response of peripheral circulation to, and effect of phenoxybenzamine on, in man, 23, 115
- -, sympathetic blocking action of, 23, 117

- Betz cells, antidromic invasion of, effect of γ -aminobutyric acid and 3-aminopropane-1-sulphonic acid on, 23, 323
- See also Di-
- Bialamicol, in-vitro cesticidal action of, 15, 437
- Bicyclo[3,2,1]azaoctane, derivatives of, ganglion-blocking action, synthesis and toxicity of, 15, 207
 Bicyclopentadienyl iron. See Ferrocenes
- Biguanide, effect on neuromuscular and ganglionic blockade, 19, 414
- p-Biguanidoacetophenone amidinohydrazone, trypanocidal action of, 19, 324
- Bile, excretion of ampicillin in, and effect of biliary tract disease on, in man, 24, 189
- , excretion of ampicillin and phenoxymethylpenicillin in, 18, 360, 362
 - -, excretion of antibiotics in, 17, 420
- -, excretion of bemegride in, 14, 36
- -, excretion of benzylpenicillin and methicillin in, 17, 74
- -, excretion of (2 bromoethyl)ethyl(naphth 1 yl methyl)amine in, in rat, 23, 291
- -, excretion of cloxacillin in, in rat, 21, 347
- ---, excretion of colistin and polymyxins and their sulphomethyl derivatives in, 23, 567
- , excretion of methicillin [sodium 6-(2,6-dimethoxybenzamido)penicillanate] in, in rat, 15, 571
- -, excretion of methylpentynol and its carbamate in, in cat, 13, 368
- -, excretion of pyrithidium (Prothidium) in, 15, 238 -, excretion and re-excretion of broad-spectrum
- penicillins in, 17, 414, 420 Bile duct, flow through, effect of dichloroisoprenaline and glucose on, 23, 106
- -, effect of sympathomimetic amines on, and action of atropine, dibenamine, dichloroisoprenaline and vagotomy, 23, 103
- -, terminal tract of, β -receptors in, 20, 228
- -, response to acetylcholine and histamine, and effect of dichloroisoprenaline on, 20, 228
- -, response to adrenaline, and effect of barium ions, carbachol, dibenamine and dichloroisoprenaline on, 20, 221
- , response to adrenaline, isoprenaline, noradrenaline and phenylephrine, and effect of adrenolytics on, 20, 221
- , response to atropine, barium ions, cholecystokinin and papaverine, and effect of adrenaline on, **20**, 226
- response to carbachol, and effect of adrenaline and isoprenaline on, 20, 226, 227
- —, response to dichloroisoprenaline, 20, 228
- -, response to sympathomimetic amines, 23, 104 Bile salts, in-vitro haemolytic action of, effect of quinine
- on, 13, 176 Bindschelder's green, oxidation-reduction potential and in-vitro trypanocidal action on normal and stilbamidine-resistant trypanosomes of, 14, 447
- Biological assays, balanced incomplete block designs in, 21, 67
- pp'-Biphenylylenebis [carbonylmethyl(2-hydroxyethyl)dimethylammonium]. See Hemicholinium
- aa'-Bipyridyl (aa'-dipyridyl):
- , effect on kininase in human erythrocytes, plasma and saliva, 23, 442
- -, in-vitro trypanocidal action on normal and stilbamidine-resistant trypanosome, 14, 445
- **Biquinolyl** (diquinolyl):
- -, inhibitory action on Mytilus oxidase, 15, 630 Birds, apomorphine-induced pecking in, 17, 10

- Birds (cont.)
- -, cheeping of, recording and measurement of, 25, 675 Bis-. See also Di-
- Bis(4-aminocinnolinium) compounds, in-vitro cesticidal action of, 24, 240
- Bis(7-aminoisoquinolinium) compounds, in-vitro cesticidal action of, 24, 240
- Bis(4-aminoquinaldinium) compounds, in-vitro cesticidal action of, 24, 240
- Bisisoquinolinium compounds, cesticidal action and toxicity of, 24, 240
- Bis-onium compounds, neuromuscular blocking action of, effect of ether oxygen, alkyl-group size, number of onium centres and inter-onium distance on, 20, 307
- **Bis-quaternary tropeines**, antiacetylcholine, hypotensive and neuromuscular blocking actions of, 15, 71
- Bisquinolinium compounds, in-vitro cesticidal action of, 24, 240
- Bis-NNN'N'-tetramethylphosphorodiamidic anhydride. See Schradan
- Bistropinium esters, antiacetylcholine, ganglion-blocking and neuromuscular blocking actions of, 18, 275
- Biventer cervicis muscle-nerve preparation, chick, response to decamethonium and its analogues, 19, 485
- -, response to dimecamine and its methiodide, mecamylamine, pempidine and its methiodide and tetraethylammonium, 22, 62
- , response to electrical stimulation, effect of (+)- and (-)-acetyl- α -methylcholine, and action of physostigmine, 25, 214
- polymethylenebis(triethyl--, effect of ammonium) salts on, 23, 139
- , response to electrical stimulation and neuro-
- muscular blocking agents, 15, 410 -, —, response to hexamethylenebis(dialkylamine) salts and polymethylenebis(trialkylammonium) salts, **23**, 138
- -, response to (+)- and (-)-nicotine, 25, 208 -, response to nicotine and its analogues and isomers, 18, 519
- Blackwater fever, haemolytic episodes of, role of quinine therapy in, 13, 177
- Bladder. See Gall bladder and Urinary bladder
- **Blepharospasm**, induction by dioscine and dioscornine. 13, 214
- Blighia sapida, role in vomiting sickness, 13, 129
- Blood, angiotensin in, in nephrectomized and normal rats, 23, 355
- -, effect of renin on, in nephrectomized rat, 23,
- -, cholesterol in, effect of thiopentone-induced anaesthesia on, **15**, 283
- , effect of gadolinium and samarium chlorides on, 17, 527
- , in-vitro effect of glycerol, propylene glycol and saline on, 13, 387
- effect on sensitivity and tone of isolated tissues, 23, 362
- , free and esterified fatty acids in, effect of thiopentone-induced anaesthesia on, 15, 283
- , from animals infected with Babesia rodhaini, Plasmodium, Rift Valley fever virus, Streptococcus and Trypanosoma, pharmacological actions of, 15 152
- -, glucose in. See sugar in
- , histamine in, in animals with and without a normal intestinal flora, 19, 389
- -, 5-hydroxytryptamine in, effect of iproniazid on, in mouse, 22, 388
- -, ---, effect of pregnancy on, in mouse, 22, 383

Blood, 5-hydroxytryptamine in (cont.)	Blood circulation (cont.)
on, in mouse, 22, 385	—, response to pempidine and its <i>N</i> -ethyl homologue, 13, 512
—, in brain, in rat, 18 , 372	Blood coagulation, effect of iron-dextran, -dextrin, and
-, isoprenaline-like adrenaline metabolite in, effect of	-sorbitol and sorbitol on, 17, 362
total haemorrhage on, 24, 739	See also Prothrombin time
, lactate in, effect of hypoglycin-A on, 13, 127	Blood flow, arterial, response to Hydergine, phenoxy-
—, lipids in, effect of ether- and thiopentone-induced anaesthesia on, 15, 282	benzamine and piperoxan, in reserpinized dog, 22, 69 ——, response to isoprenaline and noradrenaline,
—, localization of 4-acetamido- and -amino-2-mor-	and effect of liothyronine (tri-iodothyronine) and
pholino-1,3,5-triazine in, in experimental virus	reserpine on, 21, 179
infections, in mouse, 24, 275	, response to isoprenaline, noradrenaline and
—, localization of bemegride in, 14, 36	tolazoline, in reserpinized dog, 22, 68
—, localization of benzylpenicillin, cloxacillin and methicillin in, in animals, 21, 343	, response to sympathomimetic amines, in cat, 25 , 126
——, localization of benzylpenicillin and methicillin in,	, coronary, of isolated heart, recording of, 21, 451
17, 74	,, response to angiotensin and pepsitensin, 18,
—, localization of bretylium in, 15, 267	268
—, localization of bretylium, o-bromobenzyltrimethyl-	, response to choline 3-isobutyl-1-methyl-6-
ammonium and [2-(4-benzoyl-2,6-dimethylphenoxy)-	thioxanthinate, theophyllinate and 6-thiotheophyllinate, 16 , 67
ethyl]trimethylammonium in, 17, 93 —, localization of (2-bromoethyl)ethyl(naphth-1-yl-	, response to diphenhydramine, mepyramine,
methyl)amine in, in rat, 23, 288	pronethalol and pyrathiazine, 21, 456
——, localization of chymotrypsin in, 15, 308	,, response to histamine and noradrenaline, 21,
—, localization of colistin and polymyxins and their	452, 455
sulphomethyl derivatives in, 23, 562	,, response to mephentermine, 16, 312 ,, response to thalidomide, 15, 114
—, localization of histamine in, 17, 131 —, localization of methylpentynol and its carbamate	, response to trialidornide, 15, 114, response to uridine nucleotides, 22, 262
in, 13, 367; 14, 296	—, from denervated striated muscle, effect of sym-
—, , during anaesthesia, 14 , 295	pathomimetic amines on, 24, 98
——, localization of methyridine in, in mouse and sheep,	, in heart-lung preparation, response to dimethyl-
17, 329	phenylpiperazinium and nicotine, and effect of
——, localization of neostigmine in, in rat, 25, 239——, localization of pempidine in, in rat, 14, 204	hexamethonium on, 14, 507 —, in perfused kidney, effect of aldosterone on, and
—, ocalization of peniplatic in, in fac, 14, 254 —, —, and effect of chlorothiazide on, 17, 499	action of SC-11480 and spironolactone, 20, 446
, oxygen capacity and tension of, effect of bradykinin	, effect of SC-11480 and spironolactone on, 20,
on, in bronchitic and healthy men, 25, 461	445
—, pharmacologically active substances in, assay of,	—, myocardial, response to adrenaline, isoprenaline and noradrenaline, and effect of pronethalol on, 24,
using isolated organs, 23, 360 —, phospholipids in, effect of thiopentone-induced	601
anaesthesia on, 15, 283	—, —, response to bradykinin and kallidin, 22, 34
—, preparation of kining from, 14, 118	—, —, response to kallikrein, 22, 43
—, pyruvate in, effect of hypoglycin-A on, 13, 127	—, —, response to pronethalol, 24, 603
, in-vitro stability of endogenous corticotrophin in,	—, peripheral, effect of pH of saline infusion on, 24,
14, 215 —, sugar in, effect of acetylcholine on, action of	—, —, response to adrenaline, angiotensin, iso-
halothane and P-286, 20, 590	prenaline and noradrenaline, effect of bradykinin,
, effect of adrenaline and insulin on, action of	histamine and prostaglandin E ₁ on, 21, 539
hypoglycin-A, 13, 128	, response to adrenaline, isoprenaline, nor-
—, —, effect of adrenaline, isoprenaline and nor- adrenaline on, in anaesthetized rat, 25, 550	adrenaline and tyramine, in normal and reserpinized cats, 17, 381
, effect of dioscine on, 13, 214	—, —, response to adrenaline and isoprenaline–nor-
—, effect of hydrocortisone on, in cat, 25, 148	adrenaline mixtures, in man. 22, 166
—, —, effect of hypoglycin-A on, 13, 127	—, —, response to bretylium, in man, 15, 466 —, , response to bretylium and guanethidine, and
, effect of 3-phenoxypropylguanidine on, 18,	, response to bretylium and guanethidine, and
485 —, effect of thiopentone-induced anaesthesia on,	effect of phenoxybenzamine on, in man, 21, 166 —, response to chorda tympani stimulation.
15, 282	effect of decamethonium on, in cat. 18, 200
See also Hyperglycaemia and Hypoglycaemia	—, —, response to crotonovlcholine, $\beta\beta$ -dimethyl-
Blood-brain barrier, permeability to anticholinesterases	acryloylcholine and pent-2-enoylcholine, 13, 312
and tubocurarine, 13, 170 Blood cells, counts of, effect of experimental Trypanosoma	, response to 5-hydroxytryptamine, in man, 14, 247
brucei infections on, in mouse, 24, 126	-, response to hypothalamic stimulation, effect
——, effect of methylene di(methanesulphonate) on, 24,26	of guanoxan on, 24, 34
—, red. See Erythrocytes	—, —, response to methylpentynol and its carbamate
—, white. See Leucocytes Blood circulation, response to 5-hydroxytryptamine and	and pentobarbitone, in cat, 14, 289 ——, response to noradrenaline, effect of bethanid-
phenyldiguanide, 14, 528	ine on, in man, 23, 118
, response to lignocaine, in anaesthetized, decere-	,, and effect of bretylium on, in man, 21,
brate, procainized and vagotomized dogs, 14, 523	407

Blood flow, myocardial, response to noradrenaline (cont.) , —, effect of bretylium and guanethidine on, in man, 21, 168 , ---, effect of phenoxybenzamine on, in reserpinized cat, 17, 383 $-\hat{}$, response to (-)-N-(1-phenylethyl) guanidine, **24**, 401 -, response to prostaglandins, 21, 184; 24, 471 , response to sympathetic stimulation, effect of (+)- and (-)-N-(1-phenylethyl)guanidine on, 24, 401 --, effect of SK&F 90,109 and 90,238 on, **23**, 493 response to Syntocinon and valyl3-oxytocin, and effect of vasopressin on, in man, 14, 567 -, pulmonary. See Cardiac output -, renal, response to isoprenaline, orciprenaline and pronethalol, 25, 153 , resistance to, effect of sympathetic stimulation on. action of bethanidine, bretylium and guanethidine, 22, 352 -, response to adrenaline and noradrenaline, effect of bethanidine and guanethidine on, 25, 503 , through parotid gland, response to adrenaline, and effect of denervation on, 13, 228 , response to nerve stimulation, and effect of atropine on, 13, 227 Blood plasma, acid-soluble phosphate, chloride, cholesterol and urea in, effect of hypoglycin-A on, 13, 129 -, angiotensinogen and bradykininogen in, effect of nephrectomy on, 21, 254 , aortic, amines in, effect of adrenolytics, amineoxidase and O-methyl-transferase inhibitors and reserpine on, 16, 111 -, bradykininogen in, effect of kallikrein on, 21, 251 -, catechol amines in, effect of phenoxybenzamine on, and action of iproniazid, 19, 365 -, corticosterone in, effect of reserpine on, and action of hypophysectomy and stress, 18, 338 -, corticosterone and free fatty acids in, effect of acetylcholine, histamine and isoprenaline on, in anaesthetized rat, 25, 552 effect of adrenaline, isoprenaline and noradrenaline on, in anaesthetized rat, 25, 550

dog, human and sheep, formation of kinins from, by urinary kallikrein, 15, 181

, effect on response of uterus to acetylcholine, 15, 32

-, free fatty acids in, effect of acetylsalicylate, p-aminosalicylate, anthranilate, benzoate, gallate,

o-nitrobenzoate, phthalate, sulphosalicylate and

corticotrophin and noradrenaline on, and action of

5-hydroxytryptamine, isoprenaline and noradrenal-

-, hen, cholinesterase in, effect of neostigmine and

, histamine in, effect of compound 48/80 and

isoprenaline and noradrenaline on, 25, 546

normal and thyroid-depressed rats, 25, 187

-, factors affecting, in rat, 22, 577

, effect of adrenaline, 5-hydroxytryptamine,

, effect of amphetamine, chlorpromazine,

-, effect of ether on, and action of adrenaline,

, effect of pentobarbitone on, in rat, 25, 549

-, effect of salicylate on, in adrenalectomized,

-, extraction of G acid from, 17, 52

salicylamide on, in rat, 25, 190

salicylate, in rat, 25, 190

physostigmine on, 18, 558

staphylococcal a-toxin on, 25, 776

ine, 25, 546

Blood plasma (cont.) , histamine, kinin and kininogen in, during experimental Trypanosoma brucei infections, in mouse, 24, , human, kininase in, effect of various inhibitors on, 23, 442 , preparation of stable substrate from, for assay of kinin-forming enzyme activity, 21, 500 , slow smooth-muscle contraction induced by, 17, 51 spontaneous kinin-forming activity of, and inhibition of, 21, 501 , localization of ampicillin [D(-)-6-(a-amino-aphenylacetamido)penicillanic acid) in, 17, 415, localization of [85]heparin in, 18, 626 , localization of nitrofurans in, comparison with aqueous humour and cerebrospinal fluid, in dog, 24, 267 -, localization of pempidine in, and effect of diuretics on, in man and in vitro, 17, 492 , localization of thalidomide and its metabolites in, in rabbit, **25**, 345 -, localization of thioglycollate in, 25, 425 , nonruminant, benzylamine oxidase of, substrate specificity of, 14, 364 , noradrenaline in, effect of adrenaline on, and action of reserpine, in cat, 18, 187 -, effect of dichloroisoprenaline, noradrenaline and phenoxybenzamine on, in cat and rat, 22, 110 , platelet-rich, preparation of, 16, 284 -, pressor action of, effect of sympatholytics on, 19, 365 , proteases of, hypotensive and permeabilityincreasing actions of, and effect of dyflos, serum fraction and soya-bean trypsin inhibitor on, 25, 257, proteins of, binding of 5-hydroxytryptamine by, effect of pH on, 16, 286 -, preparation of pepsitensin from, 18, 256 , —, separation from quaternary ammonium compounds and salts on Sephadex column, 19, 498 -, rat, in-vitro stability of oxytocin in, 14, 329 -, ruminant, spermine oxidase of, substrate specificity of, 14, 364 , sheep, non-formation of glass-activated kinin from, 15, 184 -, ultrafiltration of, 25, 508 -, volume of, effect of rapid infusion of low-molecularweight dextran on, 21, 220 Blood platelets, from normal, myeloid leukaemic and reserpine-treated men, adenosine triphosphate and 5-hydroxytryptamine in, 13, 62 , human, 5-hydroxytryptamine in, effect of imi-pramine and iproniazid on, 15, 35 , uptake of 5-hydroxytryptamine by, comparison of fluorimetric and radioactive-tracer methods of measurement, 16, 287 , and effect of chlorpromazine, cocaine, dihydroergotamine, imipramine, lysergide (lysergic acid diethylamide), tryptamine and other substances on, 16, 284 effect of glucose, nitrogen, oxygen and pH on, 16, 284 , in-vitro effect of imipramine on, 15, 39 -, uptake of tryptamine by, effect of pH and temperature on, 16, 287 -, 5-hydroxytryptamine in, effect of antibiotics on, in mouse and rat, 16, 92 -, ---, effect of diet on, in rat, 15, 514

-, effect of 5-hydroxytryptophan on, and action

of aromatic-aminoacid-decarboxylase and mono-

amine-oxidase inhibitors, in mouse, 24, 72

Blood platelets, 5-hydroxytryptamine in (*cont*.) **Blood pressure** (cont.) -, effect of intraperitoneal 5-hydroxytryptamine response to acetylcholine, adrenaline, histamine, on, and action of monoamine-oxidase inhibitors, in nicotine and vagal stimulation, effect of M&B 4348A mouse, 24, 71 on, **15**, 213 , response to acetylcholine, adrenaline, histamine -, effect of α-methyltryptamines on, in mouse, and vagal stimulation, effect of cloxacillin on, 21, 342 , response to acetylcholine, adrenaline and nor-, swine, in-vitro uptake of adrenaline from plasma by, and relation to their adenosine triphosphate adrenaline, effect of bretylium on, in adrenalectomized and atropinized cat, 14, 542

-, response to acetylcholine, bradykinin and histcontent, 13, 411 , in-vitro uptake of noradrenaline from plasma amine, effect of bradykinin-potentiating factor from by, 13, 411 -, uptake of 5-hydroxy-α-methyltryptamine by, 24, 70 venom of Bothrops spp. on, 24, 167 , response to acetylcholine, bradykinin, histamine, 5-hydroxytryptamine, kallidin and kallikrein, effect -, uptake of 5-hydroxytryptamine by, effect of α-alkyltryptamines on, 24, 68 Blood pressure, response to AHR602, adrenaline, diof analgesic-antipyretic drugs on, in dog, 17, 110 methylphenylpiperazinium, McN-A-343, noradrenal--, response to acetylcholine, dimethylphenylpiper-azinium and histamine, effect of desmethylimiine and physostigmine, effect of P-286 on, in rat, 23, pramine on, 23, 340 38 , response to AHR602, dimethylphenylpiperazinium, -, response to acetylcholine and histamine, effect of McN-A-343, noradrenaline and physostigmine, methoxamine on, 24, 371 effect of hexamethonium on, and action of atropine -, effect of pempidine on, 13, 342 and cocaine, in rat, 23, 35 -, response to acetylcholine and noradrenaline, effect -, ——, effect of nicotine on, in rat, 23, 38 -, response to AHR602, McN-A-343 and noradrenalof hemicholinium on, in rabbit, 25, 530 response to acetylcholine and synthetic bradykininine, effect of atropine on, in rat, 23, 36 like polypeptide, and effect of atropine on, 15, 548 -, response to AHR602, McN-A-343 and physostig-, response to acetylcholine and uridine nucleotides, mine, effect of cocaine on, in rat, 23, 37 and effect of atropine and phenoxybenzamine on, 22, -, response to acetylcholine, effect of adrenalectomy and sympathetic α - and β -receptor-blocking agents , response to acetylcholine and vagal stimulation, on, in atropinized dog, 24, 449 effect of amitriptyline, chlorpromazine, chlorproeffect of atropine, 1-benzyl-5-methoxy-2thixene, desmethylimipramine, desmethylpromazine, methyltryptamine, dichloroisoprenaline [1-(3,4-diimipramine and promazine on, 23, 342 chlorophenyl)-2-isopropylaminoethanol), dihydro-, response to (+)- and (-)-acetyl- α -methylcholine. ergotamine and lysergide (lysergic acid diethylamide) **25**, 214 on, in rat, 15, 131 -, response to adenosine, adrenaline, 5-hydroxytrypt-—, effect of bretylium on, 14, 543 amine and noradrenaline, effect of atropine, 1-—, effect of dioscine and dioscornine on, 13, 214 —, effect of halothane on, mechanism of, 20, 586 benzyl-5-methoxy-2-methyltryptamine, dibenamine, dichloroisoprenaline [1-(3,4-dichlorophenyl)-2-isopropylaminoethanol], dihydroergotamine and lyser--, effect of mecamylamine and pempidine and its N-ethyl homologue on, in atropinized cat, 13, 509 gide (lysergic acid diethylamide) on, in rat, 15, 131 , effect of P-286 on, and action of dichloro-, response to adenosine and gluten ultrafiltrate, 21, isoprenaline and reserpine, in atropinized dog, 20, 579 , response to adenosine monophosphate and uridine -, effect of 3-phenoxypropylguanidine on, 18, phosphates, 22, 116 483 , response to adrenaline, effect of acepromazine, , response to acetylcholine after atropine, effect of chlorpromazine, methotrimeprazine, perphenazine, prochlorperazine, promazine, promethazine and trimeprazine on, in rabbit, 25, 567 pempidine on, 15, 218 , response to acetylcholine, adrenaline, carbachol. isoprenaline, histamine, methacholine, noradrenaland effect of adrenalectomy, adrenaline, ine and vagal stimulation, effect of pronethalol on, anaesthetics, cocaine, dopamine, isoprenaline, nor-**23**, 594 adrenaline and spinal-cord stimulation on, in cat, , response to acetylcholine, adrenaline, carotid 24, 612 occlusion, histamine, nicotine, noradrenaline and -, effect of dichloroisoprenaline (dichloroisovagal stimulation, effect of procainamide on, 22, 145 proterenol) on, in phenoxybenzamine-treated dog, response to acetylcholine, adrenaline, carotid occlusion, histamine and noradrenaline, effect of 16, 12 -, effect of dioscine and dioscornine on, 13, 214 methicillin on, in cat, 17, 74 -, and effect of noradrenaline and reserpine on, -, response to acetylcholine, adrenaline, carotid in anaesthetized vagotomized cat, 13, 475 occlusion and vagal stimulation, effect of substituted -, effect of Paspalum scrobiculatum extract on. **18**, 14 1,3,4-thiadiazoles on, 13, 361 -, response to acetylcholine, adrenaline, dimethyl-, effect of physalaemin and Prosympal on, 23, phenylpiperazinium and vagal stimulation, effect of -, response to adrenaline, amphetamine, carotid occlusion and noradrenaline, effect of N-[2-(2,6oxolamine on, 16, 214 , response to acetylcholine, adrenaline, ethylnoradrenaline, histamine, nicotine, noradrenaline, posxylyloxy)ethyl]guanidine on, 25, 537 terior-pituitary extract and tyramine, and effect of isoprenaline on, in cat, 21, 380 , response to adrenaline, angiotensin, noradrenaline and vasopressin, effect of prostaglandin E, on, 21, , response to acetylcholine, adrenaline and hist-538 amine, effect of ampicillin on, 18, 359 , response to adrenaline, bufotenine and nor--, effect of thalidomide on, in cat, 15, 114

adrenaline, 14, 531

Blood pressure (cont.) **Blood pressure** (cont.) , response to adrenaline, noradrenaline and physo-, response to adrenaline and carotid occlusion, effect of γ -aminobutyric acid, 4-hydroxybutyrate and meprobamate on, 22, 320 stigmine, effect of atropine, bretylium, chlorpromazine, N-2-diethylaminoethyl-N-isopentyl-N'N'-di-, response to adrenaline, carotid occlusion and norisopropylurea, guanethidine, hexamethonium, mecadrenaline, effect of amitriptyline, chlorpromazine, amylamine and morphine on, in rat, 21, 273 chlorprothixene, desmethylimipramine, desmethyl-, effect of 3,6-di(3-diethylaminopropoxy)pyridazine di(methiodide) on, and action of choline, in promazine, imipramine and promazine on, 23, 334, rat, 21, 273 340 , response to adrenaline, noradrenaline, sympathetic , response to adrenaline, dimethylphenylpiperazinium, noradrenaline and tyramine, effect of BW stimulation and tyramine, effect of guanoxan on, 24, 392C60 on, 20, 50 -, effect of bethanidine on, 20, 42, 43 , response to adrenaline, noradrenaline and tyramine, -, effect of (+)-, (-)- and (\pm) -N-(1-phenylethyl)guanidine on, **24**, 401 effect of cocaine, dexamphetamine, imipramine, nialamide, pheniprazine and pipradrol on, in cat, 17, , response to adrenaline, dopamine and adrenaline, in reserpinized spinal cat, 13, 476 -, effect of cocaine and reserpine on, 18, 53 -, and effect of isoprenaline, noradrenaline, , response to adrenaline and ergotamine, and effect reserpine and xylocholine (choline 2,6-xylyl ether) of phenoxybenzamine on, 19, 122 -, response to adrenaline, ethylnoradrenaline and on, 18, 67 -, effect of reserpine on, in cat, 21, 384 noradrenaline, effect of isoprenaline on, and action , response to adrenaline and phenylephrine, in chick. of dichloroisoprenaline and pronethalol, in cat, 21, **25**, 718 , response to adrenaline, histamine and tubocurarine, , response to adrenaline and physostigmine (eserine), in anaesthetized cat, 13, 158 effect of bretylium on, and action of cocaine, in rat, 16, 99 response to adrenaline, isoprenaline and noradrenaline, in dog, 17, 393 , response to adrenaline and sympathetic stimulation. , effect of bretylium on, in intact, vagotomized effect of SK&F 90,109 and 90,238 on, 23, 496 and spinal vagotomized cats, 16, 328 , response to adrenaline and tyramine, effect of N-p-cyclohexylbenzyltropinium derivatives on, 21, , effect of chlorpromazine on, in anaesthetized and spinal vagotomized cats, 25, 569 -, response to adrenaline and uridine nucleotides, -, and action of dichloroisoprenaline, 23, and effect of phenoxybenzamine and pronethalol on, 514 , and effect of pronethalol on, 24, 603 22, 259 , response to adrenaline, isoprenaline, noradrenaline -, response to γ -aminobutyric acid, 23, 384 and tyramine, in normal and reserpinized cats, 17, -, response to γ-aminobutyric acid, 4-hydroxybutyrate and meprobamate, 22, 320 , response to adrenaline, a-methylnoradrenaline, , response to amphetamine, dexamphetamine, nor-adrenaline, pheniprazine and phenylhydrazinonoradrenaline and tyramine, effect of azacyclonol, cocaine, methyl phenidate and pipradrol on, 20, 545 butane, in pithed rat, 18, 111 -, response to amphetamine and picrotoxin, in mouse, 24, 655 , response to adrenaline and nicotine, effect of pempidine on, 13, 342 response to adrenaline, nicotine and noradrenaline, -, response to amphetamine and tyramine, effect of guanethidine on, 19, 30 effect of lysergide (lysergic acid diethylamide) on, 13, -, effect of N-[2-(2,6-xylyloxy)ethyl]guanidine255 -, effect of physalaemin on, 25, 383 on, and action of noradrenaline, 25, 538 , response to adrenaline and noradrenaline, effect -, response to ampicillin, 18, 359 of acepromazine, chlorpromazine, ethopropazine, , response to amylobarbitone, mebutamate and methotrimeprazine and prochlorperazine on, in urethane, and effect of physostigmine and pilospinal cat, 25, 571 carpine on, 23, 541 , effect of adrenaline and noradrenaline in--, response to anabasine, in rat, 24, 594 , response to angiotensin, effect of bretylium, cocaine, dihydroergotamine, hexamethonium, pentafusions on, 20, 541 -, effect of bethanidine on, 25, 501 -, effect of bretylium on, 19, 20 pyrrolidinium and phenoxybenzamine on, 18, 266 methonium, 22, 215 -, —, effect of nicotine on, and action of hexamethonium, 22, 215 -, —, effect of tetramethylammonium on, 22, 215 -, effect of chlorpromazine on, in rabbit, 25, 568 and action of cocaine and hexamethonium, 23, 513 -, response to angiotensin, bradykinin, isoprenaline, effect of chlorpromazine and noradrenaline on, 20, 372 oxytocin, substance P and vasopressin, 19, 171 effect of chlorpromazine and thioproperazine , response to angiotensin and catechol amines, effect of eledoisin on, 20, 519 on, 22, 304 effect of ergotamine and tolazoline on, in cat, -, response to angiotensin and noradrenaline, and 21, 385 effect of bretylium and guanethidine on, in man, 21, -, effect of guanethidine on, 19, 27 -, effect of hexamethonium on, in spinal cat, 25, , response to angiotensin and pepsitensin, in intact,

572

blockade, 16, 11

, effect of phenoxybenzamine on, in ganglionic

-, effect of phenoxybenzamine and phentol-

amine on, and action of atropine, 23, 593

nephrectomized, pithed, spinal and reserpinized rats,

response to angiotensinamide and its analogues, 15,

-, response to BW 392C60, **20**, 49, 50

18, 264

Blood pressure (cont.) Blood pressure (cont.) response to barbiturate and tetraethylammonium. response to carotid occlusion and noradrenaline. **23,** 249 effect of phenothiazine derivatives on, 22, 158 response to carotid occlusion and stimulation of response to bemegride (Megimide), dioxone and leptazol, in anaesthetized, curarized, decerebrate and Hering's nerve, effect of dioxone on, 16, 239 , response to chlorisondamine and hexamethonium, spinal animals, 16, 231 , response to benzethidine, furethidine and pethidine. effect of neostigmine on, and action of atropine, 21, , response to chlorpromazine and thioproperazine, 22, 304 **15**, 255 -, response to benzoquinonium, and effect of atropine on, 13, 522 -, response to bethanidine, and effect of phentolamine -, response to choline and ethyltrimethylammonium, on, 20, 41 and effect of hexamethonium on, 23, 62 -, response to bis-quaternary tropernes, 15, 76 -, response to bradykinin, 22, 36 -, response to choline 3-isobutyl-1-methyl-6-thioxanthinate, theophyllinate and 6-thiotheophyllinate, , and effect of atropine and pithing on, in and effect of atropine and mepyramine on, 16, 66 female rat, 19, 503 —, response to cloxacillin, 21, 342 , and effect of dihydroergotamine, hexa--, response to clupeine sulphate, glutamate, histone, methonium and isoprenaline on, in male and oespotassium ions and salmine sulphate, 22, 116 trous, dioestrous and oestrogen-treated female rats, -, response to cobalt salts, 23, 459 19, 503 , response to cocaine, dexamphetamine, imipramine, -, —, and effect of pronethalol on, in bronchitic and healthy men, 25, 457 nialamide, pheniprazine and pipradrol, in cat, 17, , response to bradykinin, eledoisin, histamine, , response to cocaine and mephentermine, effect of 5-hydroxytryptamine, substance P and wasp kinin, reserpine on, 25, 627 19, 351 -, response to Colisan, 15, 317 response to bradykinin, eledoisin, histamine, physalaemin and substance P, 25, 384, 387 -, response to compound 48/80 and histamine, 13, 182 -, response to crotonoylcholine and pent-2-enoyl--, response to bradykinin, eledoisin, histamine and substance P, 20, 520, 522 choline, and effect of atropine and physostigmine (eserine) on, 13, 311 , response to bradykinin and histamine, effect of , response to cyanide and sebacinylbischoline, effect mepyramine on, in cat, 25, 735 of lysergide (lysergic acid diethylamide) on, 13, 252 -, response to bradykinin-potentiating factor from venom of *Bothrops* spp., 24, 167 , response to N-p-cyclohexylbenzyltropinium derivatives, 21, 12 -, response to brain extracts, effect of atropine, hexa-, response to dexamphetamine and phenethylamine, methonium, mepyramine, methysergide, phenoxytachyphylaxis to, and effect of nialamide on, 21, 88 benzamine and pronethalol on, 22, 114, response to brain-stem stimulation, effect of -, response to diacetyl monoxime, in cat, 14, 319 -, response to dibenamine and phentolamine in decamethonium on, in cat, 18, 196 ganglionic blockade, 16, 12 -, response to bretylium, 14, 541; 16, 328; 19, 17, 20 -, response to dihydromurexine, 13, 381 , in man, 21, 404 , response to $\beta\beta$ -dimethylacryloylcholine, and effect , response to bretylium and guanethidine, effect of adrenalectomy, adrenergic blocking agents, chlorof atropine, dibenamine, dihydroergotamine, hexamethonium and physostigmine (eserine) on, 13, 311 promazine, cocaine, imipramine, noradrenaline and , response to dimethylphenylpiperazinium, and effect of adrenalectomy on, 20, 371 reserpine on, 20, 363 -, response to carbachol, effect of lignocaine on, in -, effect of bretylium on, 19, 24 non-atropinized cat, 13, 489 , in normal and adrenalectomized cats. , response to carotid occlusion, effect of γ-amino-14, 542 butyric acid on, 23, 384, 386 -, —, effect of BW 392C60 on, 20, 49, 50 -, —, effect of bethanidine on, 20, 42 , effect of chlorisondamine on, and action of neostigmine followed by atropine, 21, 327 -, ____, effect of N-diethylaminoethyl-N-isopentyl--, effect of bretylium on, in rat, 16, 103 N'N'-diisopropylurea on, in rat, 21, 278 -, effect of chlorisondamine on, and action of -, effect on guanethidine on, 19, 31 neostigmine followed by atropine, 21, 326, 327 , effect of hexamethonium, mecamylamine, pempidine and its *N*-ethyl homologue, and tetra-ethylammonium on, **13**, 508 -, effect of N-p-cyclohexylbenzyltropinium derivatives on, 21, 16 , effect of mecamylamine and pempidine and , response to dimethylphenylpiperazinium and nicotits N-ethyl homologue on, 13, 509 ine, in spinal cat, 14, 506 response to dimethylphenylpiperazinium, nor-adrenaline and tyramine, effect of bretylium, guanethidine, guanoxan and reserpine on, 24, 39 -, effect of methyldopa on, 22, 75 effect of (+)- and (-)-N-(1-phenylethyl)guanidine on, 24, 402 effect of pronethalol and propranolol on, in , response to dimethylphenylpiperazinium and symdog, 24, 782 pathetic stimulation, effect of bethanidine on, in normal and adrenalectomized cats, 20, 45 , response to carotid occlusion and central vagal -, response to dioscine and dioscornine, 13, 214 stimulation, effect of bretylium on, 14, 542 -, effect of 5-hydroxytryptamine on, in dog, 14, , response to diphenhydramine, ethyl acetoacetate. 413 2 - naphth - 1' - ylethylisothiourea, phenyldiguanide, , effect of pempidine on, 15, 217 veratridine and veratrine, in cat, 13, 372 , response to carotid occlusion, nicotine and vagal -, response to NN-disubstituted guanidines, 24, 287 stimulation, effect of NN-disubstituted guanidines , response to L-dopa and dopamine, and effect of on, 24, 287 iproniazid on, 13, 91

Blood pressure (cont.)	Blood pressure (cont.)
-, response to dopamine, in anaesthetized vagotom-	—, response to hydroxydione sodium succinate, 15, 461
ized cat, 13, 474	—, response to 5-hydroxytryptamine, in dog, 14, 412
—, —, effect of bethanidine on, 20, 43 —, —, effect of ergotamine and noradrenaline on,	—, —, in man, 14, 248 —, —, effect of adrenaline, bufotenine, S-decyliso-
in spinal cat, 13, 473	thiourea, iproniazid, lysergide (lysergic acid diethyl-
,, effect of noradrenaline and vasopressin on,	amide), methylamphetamine, naphth-1- and -2-yl-
in anaesthetized reserpinized rabbit, 13, 472	diguanide and -guanidine, noradrenaline, pecazine,
—, —, in decapitated rabbit, 13, 473 —, effect of reserpine on, in anaesthetized rabbit,	2 - (pentachlorophenoxy)ethylamine, phenyldiguan - ide, procaine and reserpine on, 14, 531
13, 471	—, —, effect of atropine, hexamethonium, methy-
-, -, and action of noradrenaline, in anaes-	sergide and morphine on, in rat, 24, 594
thetized guinea-pig, 13, 471 —, response to dopamine and Epinine, effect of nor-	, and effect of carotid-sinus denervation and vagotomy on, in dog, 14, 412
adrenaline on, in anaesthetized rabbit, 13, 472	, effect of hydrallazine, histamine, noradrenal-
—, response to dopamine and isoprenaline, and effect	ine, pentolinium and vasopressin on, in dog, 14, 413
of reserpine on, in anaesthetized guinea-pig and rabbit, 13, 471	—, response to 5-hydroxytryptamine, 5-methoxytrypt- amine and tryptamine, 14, 93
, response to dopamine, noradrenaline and tyramine	, response to 5-hydroxytryptamine and phenyl-
and their quaternary methyl derivatives and nicotine,	diguanide, and effect of vagotomy on, 14, 530
23, 57	—, response to hypoglycin-A, 13, 126
, response to eledoisin, 22, 585 , effect of angiotensin and adrenaline on, 20, 522	—, response to hypothalamic stimulation, effect of guanoxan on, 24, 34
, effect of atropine, ganglion-blocking agents,	-, response to imidazoleacetylcholine, and effect of
local anaesthetics, reserpine and sympatholytics on,	atropine and hexamethonium on, 13, 379
in various animal species, 20, 516 —, response to eledoisin, physalaemin and substance P,	, effect of physostigmine (eserine) on, in spinal cat, 13, 380
25 , 376	—, response to imipramine and tyramine, effect of
—, response to ephedrine and methylamphetamine,	tranylcypromine on, in rabbit, 25, 164
effect of mephentermine on, in dog, 24, 528 ——, response to Epinine, 13, 92	—, response to isoprenaline, in cat, 24, 612 —, in ouabain- and reserpine-treated cat, 17, 387
—, effect of reserpine on, and action of nor-	——, ——, effect of 1-benzyl-5-methoxy-2-methyltrypt-
adrenaline and vasopressin, in anaesthetized rabbit,	amine, dichloroisoprenaline (1-(3,4-dichlorophenyl)-
13, 472 —, response to gadolinium and samarium chlorides,	2-isopropylaminoethanol), dihydroergotamine and lysergide (lysergic acid diethylamide) on, in rat, 15, 131
17, 530	, and effect of chlorpromazine on, 23, 513
, response to ganglioside and neuraminic acid, 18,	—, —, and effect of chlorpromazine on, 23, 513 —, —, effect of large doses of isoprenaline on, and
328 ——, response to Gluta renghas extract, 15, 443	action of adrenalectomy, artificial ventilation, atropine, bretylium, cocaine, dichloroisoprenaline,
—, response to guanethidine, 19, 27	ergotamine, evisceration, hexamethonium, pro-
—, —, effect on adrenalectomy on, 22, 241 —, —, and effect of adrenalectomy, iproniazid,	nethalol, reserpine and tolazoline, in cat, 21, 378
reserpine and splenectomy on, in cat, rabbit and rat,	—, —, effect on pronethalol on, 21, 381; 25, 718 —, —, effect of pronethalol and propranolol on, in
19, 76	dog, 25, 583
, effect of adrenalectomy and phenoxybenz-	, response to isoprenaline, noradrenaline and
amine on, 20, 175	pituitary extract during pentobarbitone anaesthesia,
—, —, and effect of development of tachyphylaxis to α-methyltyramine and tyramine on, 21, 89	effect of pronethalol on, and action of phentolamine, 24 , 314
—, —, effect of 3-phenoxypropylguanidine on, 18,	—, response to isovalerylcholine, 13, 311
483	, response to kallidin, 22, 40
, response to guanethidine, noradrenaline and tyramine, effect of BW 392C60, bretylium and	—, response to kallikrein, 22, 43 —, response to kidney and liver extracts, 22, 115
cocaine on, 22 , 241	, response to kinins, effect of acetylsalicylate,
, response to guanidine, 19, 421	flufenamic acid and mefenamic acid on, 20, 350
, response to guanoxan, 24, 36 , response to hemicholinium, 22, 442; 25, 530	—, response to leptazol and physostigmine, in rat, 24,
—, response to heptanolamines, and effect of cocaine,	, response to leptodactyline, and effect of adrenalec-
hexamethonium and reserpine on, 18, 53	tomy, atropine, carotid-sinus denervation, hexa-
—, response to hexamethonium, in rat, 17, 124 —, —, effect of phenoxybenzamine on, 16, 11	methonium, Prosympal and vagotomy on, 15, 17—, response to lignocaine, 24, 328
—, response to hexamethonium and pempidine, 13, 342	,, in anaesthetized and vagotomized dogs, 14,
, response to hexamethonium and pentolinium, 13,	523
480 —, response to histamine, in normal and <i>Haemophilus</i>	—, response to lignocaine and o-methyl-α-propyl- aminopropionanilide, 16, 36
pertussis-vaccinated rats, 13, 76	, response to lysergide (lysergic acid diethylamide),
, effect of bethanidine on, 20, 49	13, 252
—, —, effect of bretylium on, 14, 546 —, —, effect of chalcones on, 13, 15	—, response to M&B 4348A, 15, 213 —, response to McN-A-343, in rat, 24, 593, 594
-, response to Hydergine, phenoxybenzamine and	—, response to mecamylamine and pempidine and its
piperoxan, in reserpinized dog, 22, 69	N-ethyl homologue, 13, 508

Blood pressure (cont.) **Blood pressure**, response to noradrenaline (*cont*.) , response to medullary stimulation and spinal -, effect of hexamethonium and phenoxybenzcompression, effect of pempidine on, 15, 218 amine on, in dog, 14, 382 -, response to mephentermine, and effect of nor--, effect of mecamylamine and pempidine and adrenaline, reserpine and tyramine on, in dog, 24, its N-ethyl homologue on, 13, 509 ---, effect of methylpentynol on, 14, 298 526 and effect of reservine on, 25, 623 -, effect of nialamide on, in pithed and reserpin--, response to methacholine, 14, 143 ized cats, 20, 123 -, response to methoxamine, effect of aortic-arch, -, effect of phenoxybenzamine on, in reserpinized cat, 17, 383 cardiac-sympathetic and carotid-sinus denervation, phenoxybenzamine, reserpine and vagotomy on, 24, -, effect of N-[2-(2,6-xylyloxy)ethyl]guanidine on, and action of atropine, dichloroisoprenaline, 366 lysergide and promethazine, 25, 537 -, response to methyldopa, 22, 78 -, response to α-methylnoradrenaline, noradrenaline , response to noradrenaline and physostigmine and tyramine, effect of a-methyldopa on, 22, 78 (eserine), effect of xylocholine (choline 2,6-xylyl ether) on, in rat, 16, 105 r, response to methylpentynol and its carbamate, 14, 287; 23, 244 -, response to noradrenaline and sympathetic stimula-, response to α -methylphenethylamine, effect of tion, effect of 3-phenoxypropylguanidine on, 18, 480 tryptamine on, in chick, 25, 718 , response to noradrenaline and tyramine, effect of , response to α-methyltyramine, noradrenaline and cocaine on, and action of reserpine, 20, 545 tyramine, tachyphylaxis to, and effect of nialamide -, effect of methyldopa, α-methyldopamine and on, 21, 85, 90 a-methylnoradrenaline on, in reserpinized cat, 22, 79 -, response to morphine, in cat, 14, 210 , --, and effect of ouabain on, in normal and reserpinized cats, 17, 385 -, response to murexine, and effect of tetraethylammonium on, in cat and dog, 13, 105 r, response to olive oil emulsion and Paspalum scrobiculatum extract, 18, 14 , response to murexine and murexine-like substances, 13, 379 -, response to ouabain, in normal and reserpinized -, in spinal cat, **13**, 379 cats, 17, 385 -, response to naphth-1- and -2-yl-diguanides and —, response to γ -oxalolaudonium, 17, 117 -guanidines, 14, 530 -, response to oxolamine, 16, 214 response to nerve stimulation, effect of SK&F ---, response to oxytocin and vasopressin, and effect of autonomic blocking agents, decapitation, decere-90,109 and 90,238 on, 23, 494 -, response to nicotine, effect of adrenalectomy, bration, progesterone and stilboestrol on, in chicken, carotid sinus nerve section and vagotomy on, in anaesthetized cat, 25, 522 **16**, 129 , effect of reserpine on, and action of noradrenaline, in chicken, 16, 134 , effect of bretylium and hexamethonium on, **25**, 520 ---, response to P-286, in rat, 23, 37 -, effect of cocaine and hexamethonium on, 18, -, response to Paspalum scrobiculatum extract, in **267** man, 18, 15 , effect of hydroxydione sodium succinate on, -, response to pempidine, 13, 342; 15, 217 -, effect of adrenalectomy, phenoxybenzamine 15, 461 and vagotomy on, 13, 343 , response to nicotine and noradrenaline, effect of methylpentynol and its carbamate on, 14, 297 -, effect of diuretics on, in man, 17, 488 -, response to nicotine, tyramine and vasopressin, in , response to pentolinium, and effect of phenoxyintact, nephrectomized and reserpinized rats, benzamine on, 16, 7 **18**, 264 -, response to pepsitensin, and effect of adrenalectomy, bretylium, cocaine, dihydroergotamine, hexa--, response to (+)- and (-)-nicotine, 25, 208
-, response to nicotine and tobacco smoke, in methonium, nephrectomy, pentapyrrolidinium, anaesthetized and spinal cats, 25, 515 phenoxybenzamine and reserpine on, 18, 259 , response to noradrenaline, in intact, adrenalectom--, effect of adrenalectomy, dibenamine, dihydroergotized, nephrectomized and reserpinized rats, 18, amine, ergotamine, hexamethonium, methylergometrine (lysergic acid butanolamide), nicotine and tolazoline, 13, 178 -, and effect of adrenaline and noradrenaline on, in cat, 24, 612 , response to peripheral vagal stimulation and tetra-, effect of amethocaine, atropine, cocaine, methylammonium, and effect of triethylcholine on. α-cocaine, dibenamine and dichloroisoprenaline on, **17**, 191 in pithed rat, 16, 355 -, response to phenethylamine, effect of chlorphenir--, effect of γ -aminobutyric acid on, 23, 386 amine, cocaine, Hydergine, hyoscine, methysergide -, effect of bretylium and guanethidine on, and and pronethalol on, in chick, 25, 718 action of dexamphetamine, methyl phenidate and methylamphetamine, in rat, 24, 625 , effect of reserpine and tranyleypromine on, in chick, 25, 719 -, —, effect of chlorpromazine, Hydergine, hyoscine and pronethalol on, in chick, 25, 718 -, response to phenothiazine derivatives, 22, 154 ---, response to phenoxybenzamine, 14, 142 -, effect of cocaine, mephentermine -, and effect of atropine and ganglion-blocking reserpine on, 25, 626 agents on, in guanethidine- and reserpine-treated and -, effect of dexamphetamine on, 20, 20 untreated dogs, 16, 6 -, and effect of dihydroergotamine and hexa-, effect of cocaine and iproniazid on, in ganmethonium on, 13, 179 glionic blockade, 16, 11 -, —, effect of dichloroisoprenaline (dichloroiso--, effect of hexamethonium, pentapyrrolidinium and phenoxybenzamine on, 18, 266 proterenol) on, in ganglionic blockade, 16, 12

Blood pressure , response to phenoxybenzamine (cont.)	Blood pressure, response to reserpine (cont.)
—, —, and effect of vasopressin on, in cat, 14, 381	, and effect of mephentermine on, 25, 623
—, response to 3-phenoxypropylguanidine, 18, 480	—, response to SK&F 90,109 and 90,238, 23, 493
	, response to sixter 70,107 and 70,250, 25, 475
—, —, effect of adrenalectomy, bretylium, phenoxy-	-, response to sarin, and effect of artificial respiration,
benzamine, reserpine and vagotomy on, 18, 483	atropine and pralidoxime (pyridine-2-aldoxime methyl
—, response to phenyldiguanide, effect of adrenaline,	methanesulphonate) on, in anaesthetized dog, 15, 171
bufotenine, S-decylisothiourea, iproniazid, methyl-	—, response to splenic extracts, and effect of atropine
amphetamine, naphth-1- and -2-yl-diguanide and	and promethazine on, 14, 394
-guanidine, noradrenaline, pecazine, procaine and	—, response to staphylococcal α-toxin, 25, 778
reserpine on, 14, 531	—, response to β -substituted acryloyl- and propionyl-
—, response to $(+)$ -, $(-)$ - and (\pm) -N- $(1$ -phenylethyl)-	cholines, in spinal cat, 13, 382
guanidine, 24, 401	—, response to substituted 1,3,4-thiadiazoles, 13, 361
-, response to physalaemin, and effect of angiotensin,	—, response to N-substituted tryptamines, 23, 51
atropine, azamethonium, chlorpromazine, 2-diethyl-	—, response to suprarenal nerve stimulation, effect of
aminomethyl-1,4-benzodioxan and hexamethonium	methylpentynol and its carbamate on, 14, 298
on, 25 , 380	—, response to sympathetic stimulation, effect of
—, effect of reserpine on, 25, 388	BW 392C60 on, 20, 49
response to physostigmine (eserine), effect of	—, —, effect of bretylium on, 14 , 542
	, and effect of guanethidine on, 20 , 172, 175
bretylium on, and action of noradrenaline, 17, 446	,, and effect of guariethidine on, 20, 1/2, 1/3
—, —, effect of bretylium and guanethidine on, and	-, -, effect of pempidine and its N-ethyl homo-
action of cocaine, dexamphetamine, imipramine,	logue on, 13, 509
methyl phenidate and methylamphetamine, in rat,	—, response to sympathomimetic amines, in cat, 25, 129
24 , 624	—, effect of liothyronine (tri-iodothyronine) and
—, —, effect of dexamphetamine, methylamphet-	reserpine on, 21, 174
amine and noradrenaline on, in guanethidine- and	,, effect of methoxamine on, and action of
reserpine-treated rats, 24, 624	phenoxybenzamine, 24 , 368
—, —, effect of guanethidine on, and action of	, response to synthetic oxytocin analogue, 14, 135
dopamine and noradrenaline, 17, 445	-, response to Syntocinon and valyl'-oxytocin, in
—, —, effect of hexamethonium, nicotine and tetra-	man, 14, 567
methylammonium on, 23, 547	—, response to tetramethylammonium, effect of N-p-
,, effect of hypothermia and noradrenaline on,	cyclohexylbenzyltropinium derivatives on, 21, 19
in rat, 16 , 99	—, —, effect of guanethidine and hexamethonium
—, effect of reserpine on, and action of di-	on, 17, 445
hudaaaaahaaadalaaina 6 hudaaaatamina intani	
hydroxyphenylalanine, 5-hydroxytryptamine, iproni-	—, response to thalidomide, in cat, 15, 114
azid (isopropylisoniazid) and noradrenaline on, in	—, response to tranquillizers, in cat, 14, 342
rat, 16 , 99	—, response to triethylcholine, and effect of atropine
, response to picrotoxin and vasopressin, effect of	and hexamethonium on, 17, 190
synthetic oxytocin on, in rabbit, 17, 220	, response to tyramine, effect of adrenaline and nor-
—, response to plasma kinin and urinary kinin, 14, 122	adrenaline on, and action of azacyclonol, cocaine,
—, response to pralidoxime (pyridine-2-aldoxime methyl	methyl phenidate and pipradrol, 20, 543
methanesulphonate), in anaesthetized dog, 15, 170	—, —, effect of bretylium on, 19, 22
—, response to procainamide, 22, 144	,, and effect of bretylium and cocaine on, and
—, response to procaine, in dog, 24, 341, 345	action of dihydroxyphenylalanine and noradrenaline,
	in rat, 16, 320
—, response to pronethalol, 24, 603	
—, —, effect of anaesthetics on, 21, 470	—, —, effect of chlorpheniramine, hyoscine, α-
—, response to pronethalol during chloroform anaes-	methyltryptamine, methysergide, pronethalol, re-
thesia, effect of noradrenaline on, 24, 310	serpine and tranyleypromine on, in chick, 25, 718
, response to pronethalol during ether anaesthesia,	, effect of cocaine, guanethidine, hexahydro-1-
24 , 311	azepinepropionamidoxime and 3-phenoxypropyl-
—, response to pronethalol during pentobarbitone	guanidine on, 18 , 480
anaesthesia, effect of amyl nitrite, isoprenaline, nor-	, effect of cocaine and hexamethonium on, 18,
adrenaline and pituitary extract on, 24, 312	267
—, response to pronethalol during urethane anaes-	,, and effect of dihydroxyphenylalanine and
thesia, and effect of noradrenaline and pituitary	noradrenaline on, in rat, 16, 320
extract on, 24, 311	, effect of isoprenaline on, and action of
response to properhalal and proprenalal in dag	accoins in set 21 204
, response to pronethalol and propranolol, in dog,	cocaine, in cat, 21, 384
25 , 583	,, and effect of mephentermine, noradrenaline
—, response to prostaglandins, 21, 184; 22, 516; 24,	and tyramine on, in dog, 24, 526
471	—, —, effect of methyldopa, α-methyldopamine and
, response to quaternary methyl derivatives of	a-methylnoradrenaline on, in reserpinized rat, 22, 80
dopamine, noradrenaline and tyramine, effect of	-, effect of nialamide and noradrenaline on, 20,
	125
hexamethonium on, 23, 57	
—, response to Ranunculus scleratus extracts, 25, 744	, effect of noradrenaline on, and action of
—, response to reserpine, in cat, 17, 381	nialamide and noradrenaline, in reserpinized cat, 20,
,, effect of cocaine on, 25 , 627,, in ganglionic blockade, 16 , 11	124
—, —, in ganglionic blockade. 16. 11	, effect of noradrenaline and its precursors on,
—, effect of guanethidine on, in ganglionic	in reserpinized animals, 15, 48
blockade, 16, 10	
	—, effect of reserpine on, in chicken, 16, 134
—, —, and action of iproniazid, in rabbit, 19,	, response to vagal stimulation, effect of BW
79	392C60 on, 20 , 50

Blood pressure, response to vagal stimulation (cont.)	Blo
—, —, effect of guanidine on, 19, 423 —, —, effect of mecamylamine and pempidine on,	
13, 510	
, response to veratridine, and effect of atropine on, 14, 76	
—, response to <i>N</i> -[2-(2,6-xylyloxy)ethyl]guanidine, 25 , 536, 537, 538	
,, and effect of adrenalectomy, pyrogallol,	
reserpine and tolazoline on, in spinal cat, 25, 537 See also Antihypertensive action: Cardiovascular	
action; Hypotension; Hypotensive action; Pressor action; and Reflexes, baroreceptor	
Blood serum, binding of ampicillin by, 18, 365	
—, binding of chlorothiazide by, 17, 502 —, binding of iron by, after parenteral-iron sorbitol,	
17, 365 —, binding of pempidine by, and effect of chloro-	
thiazide on, 17, 502 —, bovine, horse and human, binding of methicillin by,	
17 , 79	
—, enzymic destruction of bradykinin by, effect of chlorpromazine on, 22, 333	
—, fraction of, effect on hypotensive and permeability- increasing actions of plasma-proteases, 25, 264	
guinea-nig v-globulin nermeability factor of	
kallikrein in, 21, 491 —, kininase from, inactivation by cysteine and	
edetate, and effect of metals on, 19, 442	_
—, localization of ampicillin in, 18, 359, 362 —, —, and effect of biliary tract disease on, in man,	
24, 189 —, localization of cephalosporin C and its pyridinium	
derivative in, in mouse, 16, 176	
—, localization of cloxacillin in, in rat, 21, 344 —, localization of erythromycin and spiramycin in, in	
mouse, 19, 107 —, localization of iron-dextran, -dextrin, and -sorbitol	_
and saccharated iron oxide in, 17, 367	_
—, localization of iron-dextran and -sorbitol in, 17, 364	
,—, localization of stilbamidine in, 14, 139	_
—, proteins of, from various species, binding of anti- biotics by, and effect of other substances bound by	
serum proteins and of various experimental factors	
on, 25, 638 —, resistance to proteolytic enzyme from	_
Schistosoma mansoni, 14, 71 —, protein level in, effect of rapid infusion of low-	
molecular-weight dextran on, 21, 221	_
Blood sugar. See under Blood Blood vessels, denervated, response to adrenaline, effect of	
noradrenaline and reserpine on, in anaesthetized cat, 13, 475	
,, response to tyramine, effect of noradrenaline	
on, in cat, 15, 51 —, denervated and innervated, response to dimethyl-	_
phenylpiperazinium and nicotine, in reserpinized and untreated dogs, 14, 509	
—, in rabbit ear, anatomy of sympathetic supply, 19, 514	_
, myocardial, response to adrenaline, isoprenaline	
and noradrenaline, and effect of pronethalol on, 24, 601	
,, response to bradykinin, 22, 36, 40, response to kallidin, 22, 40	-
—, of parotid gland, effect of denervation on sensitivity	
to adrenaline, 13, 227 —, reflex responses in, effect of bretylium on, in man,	
15 , 466	

Blood vessels (cont.)
 —, response to acetylcholine, and effect of atropine, guanethidine, physostigmine (eserine) and reserpine

on, 19, 515

---, ---, effect of degeneration of pre-ganglionic sympathetic nerves on, 19, 521

—, —, effect of P-286 on, in atropinized dog, **20**, 580

---, response to adrenaline, in rat, 18, 455

---, effect of dichloroisoprenaline on, in man, 19, 235

---, response to adrenaline, angiotensin, ephedrine, 5-hydroxytryptamine, S-methylisothiourea, tyramine and vasopressin, effect of hexamethonium, nerve section and reserpine on, in rat, 18, 460

---, response to adrenaline, histamine, isoprenaline and noradrenaline, effect of large doses of isoprenaline on, in cat, 21, 386

—, response to adrenaline, isoprenaline, noradrenaline and tyramine, in normal and reserpinized cats, 17, 381

---, response to adrenaline, nerve stimulation and nor-adrenaline, effect of bretylium on, 14, 538

—, response of adrenaline and noradrenaline, effect of atropine, evisceration, phenoxybenzamine, phentolamine and pronethalol on, 23, 594

----, response to adrenaline, noradrenaline and sympathetic stimulation, effect of bethanidine, bretylium and guanethidine on, 25, 502

response to angiotensin and pepsitensin, 18, 269
 response to angiotensin, bradykinin, oxytocin, substance P and vasopressin, and effect of atropine and mepyramine on, 19, 175

---, response to bethanidine, in man, 23, 115

—, response to brain-stem stimulation, effect of decamethonium on, in cat, 18, 195

—, response to bretylium, 14, 538

—, response to bretylium and guanethidine, and effect of phenoxybenzamine on, in man, 21, 165

-, response to carotid occlusion and histamine, 19, 515

---, response to eledoisin, 22, 585

response to isoprenaline-noradrenaline mixtures, in man, 22, 166

—, response to lypressin (lysine vasopressin), effect of thioglycerol and thioglycollate on, 25, 427

---, response to mecamylamine and pempidine, 13, 344 ---, response to nerve stimulation, effect of decamethonium on, and action of acetylcholine, in cat,

---, effect of guanethidine and SY 28 on, and action of decamethonium, in cat, 18, 197

---, response to nicotine, effect of noradrenaline on, in reserpinized cat, 15, 51

---, response to noradrenaline, 19, 515

---, ---, and effect of bretylium and guanethidine on, in man, 21, 165

---, and effect of degeneration of pre-ganglionic sympathetic nerves on, 19, 521

---, ---, and effect of reserpine on, 19, 519

----, response to phenyldiguanide and other amidines, 14, 532

response to sympathetic stimulation, and effect of atropine, guanethidine, physostigmine (eserine) and reserpine on, 19, 513
 , effect of bretylium, bethanidine and guan-

ethidine on, 22, 350

---, ---, and effect of degeneration of preganglionic sympathetic nerves on, 19, 521
----, ----, and effect of dopamine and noradrenaline

on, in reserpinized rabbit, 19, 519

Dised wards (cont)	Durdmandia (seut)
Blood vessels (cont.)	Bradycardia (cont.)
—, response to uridine nucleotides, 22, 262	—, induction by vagal stimulation, effect of bretylium
, response to vasoactive material in brain extracts,	on, 14 , 543
and effect of phenoxybenzamine on, 22, 116	, effect of NN-disubstituted guanidines on, 24,
-, response to vasoconstrictor drugs, relation to	287
nervous vasomotor tone, in rat, 18, 451	, effect of mecamylamine and pempidine on,
See also Aorta; Aortic strip; Arteries; Capillary	13, 510
permeability; Cardiovascular action; Carotid occlu-	,, effect of pempidine on, 13, 434 ,, effect of pronethalol and propranolol on, 25,
sion; Coronary dilator action; Vascular resistance;	—, —, effect of pronethalol and propranolol on, 25,
Vasoconstriction; Vasoconstrictor action; Vaso-	583
constrictor agents; Vasodilator action; Vasomotor	See also Heart beat
action; and Veins	Bradykinin, bioassay of, 22, 331
Body fat. See Fat, body	——, bronchoconstrictor action of, 23, 203, 206
Body fluids, localization of bemegride in, 14, 35	, effect of acetylsalicylate on, 19, 194, 195;
Body temperature. See Hypothermia and under Tempera-	23 , 206
ture	—, —, and effect of acetylsalicylate, adrenaline,
Body weight, effect of chlorpromazine and perphenazine	amidopyrine, atropine, cortisone, isoprenaline,
on, in mature and immature female mice, 20, 498	lysergide (lysergic acid diethylamide), mepyramine,
—, effect of corticosteroids on, in rat, 15, 537	phenylbutazone and vagotomy on, 15, 290
—, effect of diet on, in rat, 15, 515	—, —, effect of acetylsalicylate, flufenamic acid,
—, effect of gadolinium and samarium chlorides on,	mefenamic acid and phenylbutazone on, 20, 345
in rat, 17, 527	—, —, effect of analgesics, anti-inflammatory agents,
—, effect of liothyronine and L-thyroxine on, in	antimalarials, antipyretics, antirheumatic agents and
aminoguanidine-treated rat, 17, 481	corticosteroids on, 23, 208
—, effect of lucanthone on, in rat, 14, 473	,, and effect of analgesic antipyretics, atropine,
	lysergide (lysergic acid diethylamide) and mepyramine
——, effect of mecamylamine and pempidine and its	
N-ethyl homologue on, in rat, 13, 516	on, 15, 601
——, effect of reserpine on, 17, 267; 18, 341	—, chromatographic behaviour of, 13, 326
—, of hatched chicks, effect of intra-allantoic tetra-	—, and its derivatives, response of small intestine to,
cyclines on, 25 , 318	effect of casein, lipases and papain on, 24, 491
Bone, changes induced in, by low-molecular-weight	,, effect of chymotrypsin on, and action
dextran sulphate, 13, 110	of dyflos, 24, 486
—, localization of iron in, after parenteral iron	
	——, detection in blood, 23, 369
haematinics, in rat, 22, 275	—, distinction from eledoisin, 19, 350
—, localization of methylpentynol and its carbamate	, effect on blood oxygen capacity and tension and
in, in cat, 13 , 368	respiration, in bronchitic and healthy men, 25,
—, of chick embryo, localization of tetracyclines in,	461
25 , 318	, effect on Entamoeba histolytica and Paramecium
Bone-marrow extracts, human, anti-bradykinin, -hist-	caudatum, 18 , 309
amine and -5-hydroxytryptamine actions of, 21, 419	—, effect on lytic action of Colisan, 18, 309
Bothrops spp., venom from, bradykinin-potentiating	—, effect on release of adrenaline, noradrenaline and
factor in, biochemical and pharmacological actions	methylated amines from adrenals, in dog, 24, 562
and purification of, 24, 163	—, effect on release of catechol amines from inferior
Botulinum toxin , effect on electrically induced release of	mesenteric ganglion, 22, 200
acetylcholine from small intestine, 19, 42	—, effect on response of blood flow to adrenaline,
—, effect on response of circular muscle strip of ileum	angiotensin and noradrenaline, 21, 540
to acetylcholine, histamine, 5-hydroxytryptamine,	—, effect on response of large and small intestine to
methacholine and nicotine in presence of anti-	eledoisin, 19, 344, 345
cholinesterase, 20, 404	—, effect on response of small intestine to Colisan, 18,
, effect on response of small intestine to acetyl-	307
choline, angiotensin and nicotine, 19, 7	—, effect on response of uterus to eledoisin, 19, 348
—, effect on response of small intestine to electrical	—, effect on spontaneous activity and response of
stimulation, 19, 42	large intestine to angiotensin, 23, 355
, response of small intestine to, and effect of BW	, enzymic destruction of, by brain extracts, effect of
284C51 on, 19, 8	adrenergic and ganglionic blocking agents, hydroxy-
Box, for providing controlled environment for small experimental animals, 25, 671	zine, phenothiazine derivatives, phenoxybenzamine
	and tranquillizers on, 22, 329
Bradycardia, induction by antihistamines, 13, 8	—, formation from heated plasma by trypsin, 21, 252
—, induction by imidazoleacetylcholine, 13, 380	—, formation from plasma by salivary kallikrein,
—, induction by leptodactyline, 15, 17	effect of pH on, 19, 302
—, induction by methoxamine, effect of aortic-arch	—, inactivation by kininase, 19, 443
and carotid-sinus denervation and phenoxybenz-	—, inactivation by pseudoglobulin, effect of pH on, 19,
amine on, 24, 366	300
—, induction by reserpine, in dog, 18, 192	—, induction of pain by, 19, 178
	introduction of pain of, 17, 170
—, —, effect of imipramine on, 23, 336	—, intradermal, effect on behaviour, and action
-, induction by sarin, and effect of pralidoxime	of acetylsalicylate, amidopyrine, chlorpromazine,
(pyridine - 2 - aldoxime methyl methanesulphonate)	codeine, morphine and phenylbutazone, in guinea-
and vagotomy on, in anaesthetized dog, 15, 172	pig, 21 , 155
—, induction by sympathetic stimulation, effect of	—, pharmacological actions of, effect of tyrosinase on,
bethanidine on, 20, 42	18 , 408
	,

Durdukinin mhamma ada sisal actions of (sout)	Produtinin response of small intesting and utamps to
Bradykinin, pharmacological actions of (cont.) ——, effect of venom from Crotalus spp. on, 24,	Bradykinin , response of small intestine and uterus to (<i>cont</i> .)
169	—, —, effect of chymotrypsin, chymotrypsinogen
—, release from tissues by contact with glass and by	and trypsin on, 22, 371
trypsin, 23 , 369	,, potentiation by cysteine and thioglycollate,
—, release of catechol amines from adrenals by, effect	mechanism of, 25, 405
of antihistamines on, in cat, 25, 735	—, response of trachea to, 23, 207
, effect of ganglion-blocking agents on, in	,, and effect of amidopyrine and phenylbuta-
dog, 25 , 738	zone on, 19 , 193
—, response of blood pressure to, 20 , 520, 522; 25 ,	—, response of urinary bladder preparation to, and
384, 387 ——, and effect of atropine and pithing on, in	effect of atropine, hyoscine and physostigmine on, 24 , 179
female rat, 19, 503	, response of uterine strips to, 22, 331
—, —, effect of bradykinin-potentiating factor from	, response of uterus to, 25, 375
venom of <i>Bothrops</i> spp. on, 24 , 167	—, effect of chymotrypsin, chymotrypsinogen
,, and effect of dihydroergotamine, hexameth-	and trypsin on, 22, 376
onium and isoprenaline on, in male and oestrous,	,, effect of disulphides, reducing agents, thiols
dioestrous and oestrogen-treated female rats, 19, 503	and thiol-blocking agents on, 25, 422
, effect of mepyramine on, in cat, 25, 735	—, effect of thioglycerol on, 25 , 421
, in-vivo response of blood pressure and vessels,	, effect of thioglycollate on, 25, 419
bronchial muscle, capillary permeability, milk ejec-	, response of venous preparations to, 24, 747
tion and urine flow to, 19, 171 ——, response of blood pressure and capillary perme-	—, stability to incubation with small intestine, 25, 408—, synthetic, bronchoconstrictor action of, effect of
ability to, effect of analgesic-antipyretic drugs on,	acetylsalicylate on, 15, 609
17, 110	—, —, pharmacological actions of, 15, 544
—, response of blood pressure, cardiac output and	See also Kinins, plasma
heart beat to, and effect of pronethalol on, in	Bradykinogenin, in plasma, bioassay of, 21, 251
bronchitic and healthy men, 25, 456	—, —, effect of kallikrein on, 21 , 251, 254 —, —, effect of nephrectomy on, 21 , 254
—, response of blood pressure, heart rate, myocardial	——, effect of nephrectomy on, 21, 254
blood flow and vascular resistance to, 22, 34	, relation to angiotensinogen and kallidinogen, 21,250
, response of bronchial muscle to, and effect of acetylsalicylate on, in guinea-pig, 19 , 191	Bradykinin-potentiating factor, in venom from <i>Bothrops</i> spp., biochemical and pharmacological actions and
, response of bronchial muscle and trachea to, 19 , 195	purification of, 24, 163
, response of capillary permeability to, effect of	Brain, abnormal activity in, induction by leptazol, effect
analgesic antipyretics and mepyramine on, 15, 606	of 5-ethyl-5-phenylpyrrolid-2-one on, 25 , 796
—, —, effect of bradykinin-potentiating factor from	, acetylcholine in, effect of anaesthetics on, in dog,
venom of <i>Bothrops</i> spp. on, 24 , 168	24 , 348
,, effect of hexadimethrine on, 24, 710	,, effect of atropine and its methonitrate,
—, response of circular and longitudinal strips from ileum to, and effect of mipafox on, 21, 546	homatropine and hyoscine on, in rat, 23, 123 ——, effect of ganglionic blockade and vagotomy
, response of goldfish intestine to, and effect of	on, and action of reserpine, in dog, 24 , 119
chymotrypsin and trypsin inhibitor on, 17, 459	—, effect of JB 330, JB 336, JB 8035 and JB 8099
—, response of human bronchus to, 23, 207	on, in rat, 23, 127
, response of large intestine to, 19, 170, 342	,, and effect of reserpine on, in dog, 14, 46;
—, response of large and small intestine to, 25, 373, 374	18 , 190; 21 , 355
—, response of large and small intestine and stomach	—, —, effect of var ous drugs on, 19, 226
strip to, 23, 352	, acetylcholine and 5-hydroxytryptamine in, effect of
——, response of rectal caecum and uterus to, 19, 170	γ-butyrolactone on, in mouse and rat, 20 , 564 —, adenine nucleotides, inorganic phosphate and
—, response of small intestine to, 19, 170, 344 —, —, effect of albumin, Bacto-peptone, carboxy-	phosphocreatine in, effect of antidepressants and
peptidase, plasmin, proteose – peptone, pseudo -	related compounds on, in rat, 20, 462
globulin and thrombin on, 22, 376	—, —, effect of hallucinogens on, in rat. 25, 631
—, —, effect of analgesic antipyretics on, 15, 607	, adenine nucleotides in and oxygen uptake of, effect
—, —, effect of anoxia and cooling on, 20, 150 —, —, effect of bretylium and hexamethonium on,	of hydrallazine and reserpine on, 14, 40
—, —, effect of bretylium and hexamethonium on,	—, γ-aminobutyric acid in, effect of amino-oxyacetate
17, 84 effect of Colison and β haemalysin on 18	and γ -butyrolactone on, in mouse and rat, 20, 566
—, —, effect of Colisan and β-haemolysin on, 18, 307	—, γ-aminobutyric acid, 5-hydroxytryptamine and potassium ions in, in mouse, 20 , 457
—, —, effect of edetate on, 19 , 446	—, arousal system of, effect of tranquillizers on, and
——, ——, effect of human-tissue extracts on, 21, 420	action of amphetamine, atropine and physostigmine,
, effect of hyoscine and phenoxybenzamine on,	in cat, 14 , 340
and action of anoxia, 20, 150	—, blood in, in rat, 18 , 372
—, —, effect of nitroparaffins on, 18 , 393, 394	—, carboxypeptidase-B-like activity in, 22, 334
,, effect of Prymnesium parvum toxin on, 22, 50	—, catechol amines in, effect of chlorpromazine and
—, —, inhibition by various drugs, 25, 50 —, response of small intestine and stomach strip to, 23,	reserpine on, in dog, 18 , 595 —, effect of guanethidine and guanoxan on, 24 , 42
369	—, catechol amines and 5-hydroxytryptamine in,
, response of small intestine and uterus to, effect of	effect of raulwolfia alkaloids on, in rat. 13, 84
bradykinin-potentiating factor from venom of	—, changes induced by tri-o-cresyl phosphate and its
Bothrops spp. on, 24, 165	cyclic phosphate metabolite in, 18, 465
	·

Brain (cont.) Brain (cont.) , histochemical cholinesterase activity in, in normal -, decarboxylase, 5-hydroxytryptamine and noradrenaline in, in-vivo effect of methyldopa on, 15, and organophosphate-poisoned chickens, 16, 221, 224 -, dopamine and homovanillic acid in, effect of -, homogenate of, oxygen uptake by, effect of chlororeserpine on, 24, 569 phenols and phenol on, 13, 22 , homovanillic acid in, 20, 204 -, dopamine, homovanillic acid, 5-hydroxyindol-3ylacetic acid, 5-hydroxytryptamine and noradrenal-, 5-hydroxytryptamine in, after death, in man, ine in, effect of antiparkinsonian agents, central rabbit and rat, 18, 370 depressants and stimulants, dopa, guanethidine, pentobarbitone and reserpine on, 24, 759 -, effect of antibiotics on, in mouse and rat, 16. 92 -, effect of chlorpromazine on, in mouse, 24, -, effect of prenylamine on, 24, 566 502 -, dopamine and noradrenaline in, 24, 541 -, effect of dopamine and 6-hydroxydopamine -, effect of chlorpromazine, iproniazid, moron, 24, 552 phine, pheniprazine (β -phenylisopropylhydrazine) and , electrical activity of, effect of dexamphetamine, reserpine on, in mouse, 15, 140 (\pm) -a-methylnoradrenaline and (+)-a-methyltrypt--, effect of chlorpromazine and pheniprazine on, and influence of ambient temperature, in mouse, amine on, and action of other centrally active drugs, in chick, 25, 685 **24**, 503 , in-vivo effect of dexamphetamine, aa-di--, effect of dichloroisoprenaline on, in chick, 25, 698 methyltryptamine, etryptamine, harmaline and , —, effect of Hydergine, methysergide, phenoxybenzamine and pronethalol on, in chick, 25, 696 a-methyltryptamine on, 19, 162 -, effect of diet on, in rat, 15, 514 , effect of levamfetamine [(-)-amphetamine], -, effect of 5-hydroxytryptophan on, in mouse. (+)-α-methylnoradrenaline and (-)-α-methyltrypt-**20**, 113 amine on, in chick, 25, 694 -, -, -, action of α -alkyltryptamines, 24, 61 -, ---, action of aromatic-aminoacid-decarb- effect of sympathomimetic and related amines on, in chick and fowl, 25, 705 oxylase and monoamine-oxidase inhibitors, 24, 57, , effect of tryptamine and its homologues on, and action of adrenalectomy, adrenaline, amphet--, action of chlorpromazine, in mouse, **24**, 505 amine, atropine, bromolysergic acid, chlorpromazine -, action of dexamphetamine, αα-diand physostigmine, in cat, 24, 659 , —, recording and measurement of, in behavioural studies, 25, 673 methyltryptamine, etryptamine, harmaline and α-methyltryptamine, 19, 164 , enzymes in, effect of organophosphorus compounds on, in hen, 23, 301 , --, in-vivo effect of iproniazid and Ro 4-1284 on. action of dexamphetamine, aa-dimethyltryptamine, etryptamine, harmaline and a methyltryptamine, 19. -, extracts of, chromatography of, 20, 205 ---, containing substance P, removal of nucleo-166 tides and adenosine 5'-mono- and -tri-phosphates , effect of imipramine, reserpine and syrosinfrom, 21, 113 gopine on, 21, 61 -, effect of α-methyltryptamine on, 24, 62 , enzymic destruction of bradykinin by, effect of adrenergic and ganglionic blocking agents, -, effect of monoamine-oxidase inhibitors on. 24, 59 phenothiazine derivatives, phenoxybenzamine and -, effect of reserpine on, and action of acorus tranquillizers on, 22, 331 -, —, human, anti-bradykinin, -histamine and -5-hydroxytryptamine actions of, 21, 419 oil, asarone and β -asarone, in rat, 20, 439 -. effect of various drugs on, 19, 228, 229 -, response of goldfish intestine to, 17, 460 -, 5-hydroxytryptamine and noradrenaline in, effect of iproniazid and raunescine on, in rat, 14, 164 -, separation of constituents of, by chromato-- , localization of bemegride in, 14, 36
- , localization of bretylium in, 15, 267 graphy and solvent extraction, 20, 179 -, separation of histamine and other pharmacologically active substances in, by chromatography, -, localization of o-bromobenzyltrimethylammonium in, 17, 93 , —, vasoactive material in, effect on action of acetylcholine on response of sciatic nerve-gastro-, localization of (2-bromoethyl)ethyl(naphth-1-yl-methyl)amine, in rat, 23, 290 —, localization of [85S]heparin in, 18, 626
—, localization of methylpentynol and its carbamate in, in cat, 13, 368 cnemius preparation to electrical stimulation, 22, 116 -, effect on response of sciatic nervegastrocnemius preparation to electrical stimulation, **22**, 116 -, during anaesthesia, 14, 295 -, localization of neostigmine in, in rat, 25, 239 -, effect on response of small intestine and uterus to acetylcholine, 22, 116 ---, localization of pempidine in, in rat, 14, 205 -, —, extraction, chromatographic purifica-tion, properties and stability of, 22, 113 -, and effect of chlorothiazide on, in rat, 17, -, <u>-</u> 498 , localization of pronethalol and propranolol in, 25, -, response of blood pressure to, effect of atropine, hexamethonium, mepyramine, methy-587 -, localization of thalidomide and its metabolites in, sergide, phenoxybenzamine and pronethalol on, 22, in rabbit, **25**, 345 114 -, monoamine oxidase in, effect of tranyleypromine -, response of blood vessels to, and effect of phenoxybenzamine on, 22, 116 and N-[2-(2,6-xylyloxy)ethyl]guanidine on, in rat, -, response of small intestine and uterus 25, 541 to, 22, 116 -, effect of yohimbine on, 21, 61

86 Brain (cont.) -, noradrenaline in, effect of dexamphetamine, dimethylphenylpiperazinium, guanethidine, methoserpidine, pheniprazine and phenylhydrazinobutane on, in cat and rabbit, 18, 109 , effect of imipramine, reserpine, syrosingopine and tetrabenazine on, 21, 61 , effect of yohimbine on, and action of imipramine, 21, 61 , perfused, concentration of lysergide (lysergic acid diethylamide) in effluents from, during intravenous infusion, **15**, 33 -, reticular activating system of, effect of peripheral nervous depressants on, in cat, 13, 485 -, septal region of, effect of destruction on overt emotional activity, and action of chlorpromazine, in rat, 17, 475 , subcellular distribution of histamine, 5-hydroxytryptamine, slow-reacting substance and succinic dehydrogenase in, in dog, 20, 264 , subcellular distribution of 5-hydroxytryptamine and noradrenaline in, in dog, 21, 485 -, substance P in, effect of centrally acting substances on, in mouse, 21, 113 -, estimation of, **20**, 449 -, extraction of, **20**, 458 , synthesis of acetylcholine by, effect of chlorpromazine on, 15, 93 , uptake of 5-hydroxytryptophan by, and effect of iproniazid, methyldopa and other decarboxylase inhibitors, phenylacetic acid, phenylalanine and other amino-acids, phenyl-lactic acid, phenylpyruvic temperature on, 20, 178 -, uptake of inulin by, 20, 186 , uptake and distribution of 5-hydroxytryptophan

acid, reserpine, substrate concentration, time and

in, 20, 182

See also Cerebral cortex Brain stem, histochemical cholinesterase activity in, in normal and organophosphate-poisoned chickens,

16, 221, 224 Breathing. See Respiration

Breeding performance, of mouse, 23, 522

See also Reproduction

Bretylium, adrenergic action of, mechanism of initial phase of, 20, 362

-, adrenergic blocking action of, effect of dexamphetamine on, **20**, 19, 23 —, ——, mechanism of, **25**, 171

-, antiacetylcholine action of, in rat, 24, 94

-, antidiuretic action of, 17, 469

-, depolarizing and ganglion-blocking actions of, in rat, 24, 89

determination and identification in urine, 15,

-, diuretic action of, and effect of phenoxybenzamine

, effect on action of adrenaline and isoprenaline on response of tracheal-chain preparation to pilocarpine, 16, 328

-, effect on action of adrenaline and isoprenaline on response of uterus to acetylcholine, 16, 328

-, effect on action of dopamine, ephedrine and noradrenaline on response of small intestine to histamine, 16, 29

-, effect on action of imipramine on toxicity of vohimbine, 21, 58

, effect on action of morphine on response of small intestine to histamine, nerve stimulation and nicotine, 20, 157

Bretylium (cont.)

, effect on action of reserpine on response of Finkleman ileum preparation to electrical stimulation, 19, 90, 92

, effect on diuretic action of adrenaline, chlorothiazide and noradrenaline, 17, 468

---, effect on electrolyte excretion, 17, 465

, effect on ganglionic and nervous transmission, selectivity of, 23, 273

-, effect on ganglionic, nervous and neuromuscular transmission, 20, 378

-, effect on hyperlipaemia and hypercholesterolaemia induced by surface-active agent, in rat, 23, 450

, effect on hypothermia and tremor induced by Tremorine, 25, 447, 450

, effect on neuromuscular blocking action of decamethonium and tubocurarine, 17, 377 -, effect on peristaltic reflex, and action of hexa-

methonium, 17, 84

, effect on potentials in vas deferens before and during hypogastric and intramural nerve stimulation, 23, 602 -, effect on release of catechol amines from heart by

guanethidine, 20, 59

-, effect on release of noradrenaline from splenic nerve endings, in cat, 18, 161 -, effect on release of noradrenaline and uptake of

guanethidine by heart, in rat, 25, 174 -, effect on response of aortic strip preparation to

adrenaline and noradrenaline, 16, 328 -, effect on response of auricular beat to acetylcholine and atropine, 15, 119

-, effect on response of auricular beat to amphetamine and tyramine, 15, 119

-, effect on response of auricular beat to nicotine and tyramine, 16, 340

-, effect on response of auricular beat to sympathetic and vagal stimulation, 15, 118

-, effect on response of blood flow to noradrenaline, in man, 21, 407

-, effect on response of blood pressure to adrenaline

and noradrenaline, 19, 20 -, effect on response of blood pressure to adrenaline,

noradrenaline and physostigmine, in rat, 21, 273 -, effect on response of blood pressure to adrenaline and physostigmine (eserine), and action of cocaine, in

rat, 16, 102 -, effect on response of blood pressure to angiotensin

and noradrenaline, in man, 21, 403 -, effect on response of blood pressure to carotid

occlusion, in rat, 16, 103

, effect on response of blood pressure to dimethylphenylpiperazinium, 19, 24

-, effect on response of blood pressure to dimethylphenylpiperazinium, noradrenaline and tyramine, **24**, 39

-, effect on response of blood pressure to guanethidine, noradrenaline and tyramine, 22, 241 , effect on response of blood pressure to isoprenaline,

in cat, 21, 383

-, effect on response of blood pressure to nicotine, 25, 520

, effect on response of blood pressure to noradrenaline, and action of dexamphetamine, methyl phenidate and methylamphetamine, in rat, 24, 625

-, effect on response of blood pressure to oxytocin and vasopressin, in chicken, 16, 133

-, effect on response of blood pressure to physostigmine, and action of cocaine, dexamphetamine, imipramine, methyl phenidate and methylamphetamine, in rat, 24, 624

- Bretylium, effect on response of blood pressure to physostigmine (cont.)
- and on 5-hydroxytryptamine and noradrenaline in tissues, 17, 443
- , effect on response of blood pressure to tyramine. 19, 22
- -, and action of dihydroxyphenylalanine and noradrenaline, in rat, 16, 320
- -, effect on response of blood pressure and nictitating membrane to adrenaline, isoprenaline and noradrenaline, in intact, vagotomized and spinal vagotomized cats, 16, 327
- , effect on response of blood pressure and nictitating membrane to 3-phenoxypropylguanidine, 18, 483
- -, effect on response of blood vessels to acetylcholine, sympathetic stimulation and tyramine, in atropinized rabbit, 15, 63, 120
- , effect on response of blood vessels to adrenaline, noradrenaline and sympathetic stimulation, 25, 502 , effect on response of blood vessels to noradrenaline,
- in man, 21, 165 -, effect on response of cardiac nerve-pulmonary artery preparation to electrical stimulation, 22, 178 -, effect on response of Finkleman ileum preparation
- to electrical stimulation, 19, 92 , and action of adrenaline, noradrenaline and
- physostigmine (eserine), 19, 87 -, effect on response of Finkleman ileum preparation
- to noradrenaline, 19, 87 -, effect on response of heart beat to acetylcholine,
- sympathetic stimulation and tyramine, 15, 63 -, effect on response of heart beat to noradrenaline, in
- man, 21, 405 , effect on response of hypogastric nerve-vas deferens
- preparation to acetylcholine, electrical stimulation and noradrenaline, 23, 602 -, effect on response of hypogastric nerve-vas deferens
- preparation to electrical stimulation, and action of carbachol and tyramine, 21, 190 , and action of histamine, 5-hydroxytrypt-
- amine and noradrenaline, 19, 92 effect on response of ileo-colic sphincter to acetyl-
- choline and atropine, 18, 402 , effect on response of ileo-colic sphincter to nicotine,
- effect on response of iris and nictitating membrane to sympathetic stimulation and tyramine, in cat, 15, 62
- , effect on response of large intestine to nerve stimulation and noradrenaline, 23, 158, 160, effect on response of large and small intestine to
- noradrenaline and parasympathetic and sympathetic nerve stimulation, 19, 258
- -, effect on response of nictitating membrane to adrenaline and noradrenaline, 19, 18, 20
- -, effect on response of nictitating membrane to amphetamine, ephedrine, methylamphetamine and tyramine, 19, 21
- effect on response of nictitating membrane to dimethylphenylpiperazinium, 19, 23
- , effect on response of nictitating membrane to sympathetic stimulation, 17, 547; 19, 16, 20
- , effect on response of nictitating membrane and small intestine to sympathetic stimulation, and action of cocaine, monoamine-oxidase inhibitors and sympathomimetic amines, 18, 421
- , effect on response of periarterial nerve-ileum preparation to acetylcholine, electrical stimulation and nicotine, 22, 549
- -, effect on response of periarterial nerve-ileum preparation to electrical stimulation, 20, 383

- Bretylium, effect on response of perirterial nerve-ileum preparation to electrical stimulation (cont.)
- -, and action of hemicholinium, hexamethonium and pentolinium, 22, 552
- , effect on response of pulmonary artery to acetylcholine, 22, 178
- , effect on response of salivary glands to noradrenaline, 16, 315
- , effect on response of small intestine to acetylcholine, bradykinin, carbachol, histamine, hydroxytryptamine, nicotine and substance P, and action of hexamethonium, 17, 82
- , effect on response of small intestine to histamine and sympathetic stimulation, 16, 25
- -, effect on response of small intestine to sympathetic stimulation, 17, 256
- -, and action of dexamphetamine and dopamine, 24, 383
- , effect on response of smooth-muscle preparations to acetylcholine and sympathetic stimulation, 20, 418
- , effect on response of smooth muscle preparations to sympathetic stimulation, 22, 349
- , effect on response of spleen to adrenaline, noradrenaline and sympathetic stimulation, 25, 501
- -, effect on response of uterus to acetylcholine, 16, 333 , effect on response of urinary bladder to dimethylphenylpiperazinium and nicotine, in rat, 24, 594
 - , effect on response of urinary bladder to nerve stimulation, 24, 182
- , effect on response of urinary bladder to transmural stimulation, 25, 289
- effect on response of vas deferens to acetylcholine, noradrenaline and transmural stimulation, 21, 576
- effect on response of vas deferens to electrical stimulation, and action of carbachol and tyramine, **21**, 190
- , effect on response of vas deferens to noradrenaline, 21, 197
- -, effect on tachycardia induced by imipramine, in reserpinized rat, 23, 337
 - -, effect on toxicity of yohimbine, 21, 57
- , effect on uptake of guanethidine by heart, in rat, 25,
- , effect on uptake and release of catechol amines by heart, 20, 58
- , effect on uptake and spontaneous and reservinginduced release of noradrenaline by heart, in rat, 18,161
- -, excretion and stability to metabolism of, 15, 260 -, local anaesthetic action of, 17, 97
- , localization in peripheral nervous system, and effect of 2-[4-benzoyl-2,6-dimethylphenoxyethyl]trimethylammonium on, 17, 92
- , localization in sympathetic ganglia and their postganglionic nerves, 15, 265
 - , neuromuscular blocking action of, and effect of decamethonium, physostigmine, potassium ions, temperature and tubocurarine on, 17, 372
- , peripheral vascular effect of, in man, 15, 466 , pharmacological actions of, comparison with
- guanethidine, 19, 13 -, pharmacological actions and toxicity of, 14, 536
- , positive inotropic response to, mechanism of, 20, 56
- -, response of blood pressure to, 16, 328; 19, 17, 20 -, —, in man, 21, 404
- , response of blood vessels to, and effect of phenoxybenzamine on, in man, 21, 165
- , response of heart beat to, and effect of dichloroisoprenaline on, 20, 56
- effect of reserpine on, and action of noradrenaline, 20, 58

88 **Bretylium** (cont.) -, response of nictitating membrane to, 19. 16 -, effect of adrenalectomy on, 19, 24 —, response of small intestine to, 17, 82 -, uptake by heart, effect of adrenaline, amphetamine, bretylium, isoprenaline, noradrenaline, normetanephrine and reserpine on, in rat, 25, 172 , uptake by spleen and striated muscle, effect of amphetamine on, in rat, 25, 172 [N-14C]Bretylium, preparation of, 15, 265 Bretylium-like action, of mecamylamine and pempidine, Brilliant cresyl blue, effect on oxidation-reduction potentials of normal and stilbamidine-resistant trypanosome suspensions, 14, 449 , oxidation-reduction potential and in-vitro trypanocidal action on normal and stilbamidine-resistant trypanosomes of, 14, 447 Bromide, effect on response of uterus to oxytocin, 16, 46 N-2-Bromoacetoxyethyl- $\alpha\alpha$ -dichloro-N-p-methylsulphonylbenzylacetamide, amoebicidal action of, 18, (o-Bromobenzyl)ethyldimethylammonium. N^{1} -p-Bromobenzyloxydiguanide, antibacterial action of, **15**, 244 o-Bromobenzyltrimethylammonium, local anaesthetic action of, 17, 97 , localization in peripheral nervous system and other tissues, in cat, 17, 92

N-(4-Bromobutyl)-4-hydroxyiminomethylpyridinium, as antidote in organophosphate poisoning, 14, 192

, reactivating action on organophosphate-inactivated cholinesterase and synthesis of, 14, 195

2 - Bromo - 4,6 - dibutyrylphloroglucinol, anthelmintic action and synthesis of, 24, 714

Bromodiphenhydramine, in-vitro effect on histamine release and mast-cell damage in sensitized tissues by antigen and compound 48/80, 15, 400

in-vitro mast-cell damage by, and effect of metabolic inhibitors, calcium-lack and high temperature on, 15,

-, in-vitro release of histamine by, and effect of metabolic inhibitors, calcium-lack and high tem-

perature on, 15, 397 (2 - Bromoethyl)ethyl(naphth - 1 - ylmethyl)amine, intra venous, distribution and excretion of, and relation to antiadrenaline action, in rat, 23, 285

-, nerve-blocking action of, 18, 197

 response of blood pressure to, and effect of adrenalectomy, adrenaline, hexamethonium, noradrenaline and reserpine on, 16, 77

(2-Bromoethyl)ethyl(naphth-1-yl[14C]methyl)amine, synthesis of, 23, 293

4-Bromo-3-hydroxybenzyloxyamine, effect on uptake of 5-hydroxytryptophan by brain slices and on 5hydroxytryptophan decarboxylase, 20, 184

3-Bromo-4-hydroxycoumarin, anticoagulant action of,

4-, 5-, 6- and 7-Bromoisatin β -thiosemicarbazone, antiviral action, properties and synthesis of, 15, 101

Bromolysergic acid, effect on action of a-methyltryptamine on behaviour and cerebral electrical activity, in cat, **24**, 662

2-Bromolysergic acid diethylamide (BOL 148):

, effect on action of gastrin and histamine on acid gastric secretion, in rat, 23, 481

, effect on action of histamine on acid gastric secretion, and effect of aminoguanidine and iproniazid, in rat, 22, 520

2-Bromolysergic acid diethylamide (cont.)

-, effect on action of 5-hydroxytryptamine on peristaltic reflex, 13, 268

-, effect on action of imipramine on toxicity of yohimbine, 21, 58

-, effect on in-vivo action of lysergide (lysergic acid diethylamide) on dorsal root potentials, 16, 255

-, effect on action of tranyleypromine on spontaneous uterine activity, 25, 221

-, effect on amine oxidase, 16, 153

-, effect on apomorphine-induced emesis and pecking, in pigeon, 16, 140

-, effect on bronchoconstrictor action of 5-hydroxytryptamine, in guinea-pig, 15, 563

-, effect on bronchoconstrictor action of slow-reacting substance produced in anaphylaxis, 23, 205

-, effect on carotid sinus reflexes, 13, 256 -, in-vivo effect on dorsal root potentials, 16, 255

-, effect on facilitation of leptazol convulsions by reserpine, in mouse, 14, 110

-, effect on head-twitch response to 5-hydroxytryptophan, in mouse, 20, 113

-, effect on induction of gastric haemorrhage and erosion and sedation by reserpine, 14, 115 . effect on induction of oedema by compound 48/80,

dextran, eggwhite, histamine and 5-hydroxytryptamine, in rat hindpaw, 13, 66

, effect on neurone-depressant action of 5-hydroxytryptamine, 18, 236

-, effect on peristalsis, in rat, 23, 27

-, in small intestine from normal rat, 23,

, in small intestine from tryptophan-deficient rat, 23, 24

-, effect on peristaltic reflex, action of 5-hydroxytryptamine, 13, 454

-, effect on response of human taenia coli preparation to 5-hydroxytryptamine, 23, 170

-, effect on response of large intestine to Gluta renghas extracts, 15, 442

-, effect on response of large and small intestine to eledoisin, 19, 341

, effect on response of molluscan heart to 5-hydroxytryptamine, 18, 446

-, effect on response of rectal caecum to 5-hydroxy-tryptamine, 17, 150

effect on response of respiration of excised lamel-

libranch gill to 5-hydroxytryptamine, 17, 282

, effect on response of small intestine to acetylcholine, choline phenyl ether, dimethylphenylpiperazinium, histamine, 5-hydroxytryptamine and nicotine, 21, 319

, effect on response of small intestine to 5-hydroxytryptamine and smooth-muscle-stimulating substance in nasal mucosa, 13, 116

, effect on response of splenic muscle to acetylcholine, adrenaline, histamine and 5-hydroxytryptamine. 19, 431

, effect on response of stomach-strip preparation to acetylcholine, 5-hydroxytryptamine, 5-methyltryptamine and tryptamine, 14, 269

effect on response of stomach-strip preparation to 3-(2-dimethyl- and -dipropyl-aminoethyl)indole, 5hydroxytryptamine and tryptamine, 14, 105

, effect on response of tracheal ring to acetylcholine, 5-hydroxytryptamine and tryptamine, 13, 497

, effect on response of vagus nerve-stomach muscle preparations to electrical stimulation, 22, 406 , effect on response of Venus heart to alkylamines and

histamine, 15, 368

2-Bromolysergic acid diethylamide (cont.) , effect on response of Venus heart to catechol amines, 5-hydroxytryptamine, phenethylamine and tyramine, **15**, 367 -, effect on response of Venus heart to tryptamine analogues and other stimulants, 15, 377 , effect on sympathetic ganglionic transmission, 17, -, effect on toxicity of yohimbine, 21, 57 , effect on uptake of histamine and 5-hydroxytryptamine by mast cells, 23, 411 , effect on uptake of 5-hydroxytryptamine by blood platelets, 16, 291 , inhibition of imidazole-N-methyl transferase by, -, neurone-depressant action of, 18, 234 response of molluscan heart to, 18, 440 , response of respiration of excised lamellibranch gill to, 17, 282 -, response of Venus heart to, 15, 382 , spasmogenic action of, 21, 319 4-Bromo-5-methylresorcinol, anti-inflammatory action and toxicity of, 22, 221 N¹-(1-Bromonaphth-2-ylmethoxy)diguanide, antibacterial action of, 15, 244 Bromopentafluorobenzene (pentafluorobromobenzene): anaesthetic and analgesic actions of, 24, 523 N-(5-Bromopentyl)-4-hydroxyiminomethylpyridinium, as antidote in organophosphate poisoning, 14, 192 , reactivating action on organophosphate-inactivated cholinesterase and synthesis of, 14, 195 1-p-Bromophenylcarbamoylmethylpyridinium, antiviral action in tissue culture, properties and synthesis of, p-Bromo-α-piperidinoacetanilide, antiviral action in tissue culture, properties and synthesis of, 13, 424 N-(3-Bromopropyl)-4-hydroxyiminomethylpyridinium,as antidote in organophosphate poisoning, 14, 192 , reactivating action on organophosphate-inactivated cholinesterase and synthesis of, 14, 195 1-Bromo-3-(3,4-xylyloxy)propane, properties and synthesis of, 13, 429 Bronchial muscle, human, response to acetylcholine, bradykinin and slow-reacting substance produced in anaphylaxis, 23, 207 , response to oxytocin and vasopressins, in guineapig, 19, 193 Bronchoconstrictor action, of acetylcholine, effect of acetylsalicylate and atropine on, 15, 605 -, —, effect of atropine on, 14, 52; 19, 194 -, of acetylcholine, antigen, bradykinin, histamine and 5-hydroxytryptamine, effect of analgesic antipyretics and other substances on, 15, 602 , of acetylcholine, barium ions, histamine and 5hydroxytryptamine, 19, 289 -, of acetylcholine, bradykinin and histamine, 19, 195 -, of acetylcholine, histamine and 5-hydroxytryptamine, and effect of antagonists on, in guinea-pig, **15**, 561 effect of flufenamic and mefenamic acids on, **20**, 347 , of acetylsalicylate, amidopyrine and mepyramine, -, of angiotensin, oxytocin and vasopressin, 19, 175 -, of angiotensin and substance P, and effect of acetylsalicylate, atropine, lysergide (lysergic acid diethylamide) and mepyramine on, in guinea-pig, 19, 192 -, of angiotensin and vasopressin, 19, 175

-, of antigen, in sensitized guinea-pig, 21, 442

```
Bronchoconstrictor action, of antigen (cont.)
           , effect of acetylsalicylate, atropine and lyserg-
     ide (lysergic acid diethylamide) on, in sensitized
    , of bradykinin, effect of acetylsalicylate on, 19, 194; 23, 206
           -, effect of acetylsalicylate, flufenamic acid,
    mefenamic acid and phenylbutazone on, 20, 345
           , effect of analgesics, anti-inflammatory agents,
     antimalarials, antipyretics, antirheumatic agents and
    corticosteroids on, 23, 208
            effect of analgesic antipyretics, atropine,
     lysergide (lysergic acid diethylamide) and mepyr-
    amine on, 15, 601
    -, of bradykinin, histamine, 5-hydroxytryptamine and wasp kinin, 15, 290
    , of bradykinin, histamine and slow-reacting sub-
     stance produced in anaphylaxis, 23, 203, 206
    -, of bradykinin, histamine and substance P, and
    effect of mepyramine on, 19, 174
     , of bradykinin and kallidin-10, and effect of acetyl-
     salicylate on, in guinea-pig, 19, 191
    -, of chymotrypsin and trypsin, 15, 310
    -, of eledoisin, and effect of acetylsalicylate, adrenal-
    ine, atropine and mepyramine on, 19, 340
    -, of histamine, 19, 194
          -, in normal and Haemophilus pertussis-vac-
    cinated rats, 13, 77
          -, effect of acetylsalicylate on, 23, 208
          -, effect of acetylsalicylate, amidopyrine and
    hydrocortisone sodium succinate on, 15, 604
           , effect of ascorbic acid on, and action of
    pempidine, pronethalol and reserpine, in guinea-pig,
    24, 731
           , effect of atropine, diphenhydramine, mepyr-
    amine and pethidine on, 14, 52
            effect of bethanidine on, 20, 49
    of histamine and vagal stimulation, effect of prostaglandins on, 22, 516
    -, of 5-hydroxytryptamine, 19, 194
           , effect of acetylsalicylate and lysergide
    (lysergic acid diethylamide) on, 15, 605
    -, of kallidin-10, effect of acetylsalicylate, flufenamic
    acid and mefenamic acid on, 20, 345
    -, of peptides, in guinea-pig, rabbit and rat, 19, 190
    -, of prostaglandin, effect of acetylsalicylate on, 23, 206
    , of slow-reacting substance produced in anaphylaxis,
    and effect of analgesics, anti-inflammatory agents,
    antimalarials, antipyretics, antirheumatic agents and
    corticosteroids on, 23, 201
            and effect of atropine, bromolysergic acid
    diethylamide and mepyramine on, 23, 205
            effect of hexamethonium on, 23, 206
      of substance P, effect of acetylsalicylate on, 23, 205
    See also Respiration
Bronchodilator action, of adrenaline and aminophylline,
    19, 291
     , of choline 3-isobutyl-1-methyl-6-thioxanthinate,
    theophyllinate and 6-thiotheophyllinate, 16, 59
     , of 6-thioxanthines and xanthines, 17, 196
    See also Respiration
Brucella spp., sensitivity to benzylpenicillin, cephaloram
    and cephalosporin C, 22, 24
     , sensitivity to cephalosporin C and its pyridinium
    derivative, 16, 173
```

Buffer solutions, effect of temperature on pH of, 25, 329

21, 118

, effect on response of small intestine to substance P,

-, effect on trypanocidal action of butarsen, 14, 434

90 Bufo marinus. See Toad Bufodiene aglycone, inotropic action of, 21, 395 **Bufotenine** (5-hydroxy-N'N'-dimethyltryptamine): , effect on adenine nucleotides, inorganic phosphate and phosphocreatinine in brain, in rat, 25, 631 -, effect on response of blood pressure to 5-hydroxytryptamine and phenyldiguanide, 14, 531 -, effect on response of cerebral cortical neurones to L-glutamate and synaptic excitation, 20, 471 -, enzymic oxidation of, 15, 43, 627 -, neurone-depressant action of, 18, 230 --, pK value of, **14**, 91 -, response of blood pressure to, 14, 531 response of stomach-strip preparation to, 14, 265 -, and effect of amine-oxidase inhibitors on, 14, 88 -, response of *Tapes* heart to, **25**, 490 -, response of *Venus* heart to, **15**, 377 Bufotenine ethiodide and methiodide, response of stomachstrip preparation and uterus to, 14, 265 Bulbocapnine, effect on apomorphine-induced emesis and dexamphetamine-induced agitation, 22, 308 , induction of catatonia by, 22, 308 Buphenine, effect on uptake of noradrenaline by heart at high and low perfusion concentrations, 25, 34 Busulphan, antifertility action of, in rat, 14, 154 -, antitumour action of, in rat, 24, 24 -, effect on trypanosomes, in mouse, 14, 451 Butane-1,4-dithiol, effect on Mycobacterium tuberculosis, **15**, 485 Butanol, depressant action on various biological systems, 15, 185 Butarsen, pKa values of, 14, 435 substances on, 14, 433

, trypanocidal action of, effect of p-aminobenzoic acid and related compounds and various other

, in-vitro effect of pH on, 14, 449

-, trypanocidal action on normal and drug-resistant trypanosomes and toxicity of, in mouse, 14, 425

, trypanosome strains resistant to, cross-resistance, development and sensitivity of, in mouse, 14, 425

Buthalitone, anaesthetic action, plasma concentration, oil/water partition coefficient and protein binding of, 14, 261

Buthotus minax. See Scorpion
Butobarbitone, effect on insomnia and nocturnal restlessness, in psychiatric patients, 16, 82 Butoxyamine, antibacterial action of, 15, 243

2-Butoxycarbonylmethylene-4-oxothiazolidine, effect on adjuvant-induced arthritis, in rat, 24, 632

N¹-Butoxy-diguanide, antibacterial action of, 15, 243

Butyl (2,3 - epithiopropylthio)formate, antitubercular action and toxicity of, 15, 485

Butylamine, response of Venus heart to, 15, 368

3-(2-Butylaminoethyl)indole (N-butyltryptamine): , metabolism, pharmacological actions, synthesis and toxicity of, 23, 43

N-Butylatropinium bromide, response of chick amnion to, 21, 287

6-Butyl-6-cyclohexylpiperid-2-one, central depressant action and toxicity of, 25, 790

1-Butyl-4-dichloroacetylpiperazine, amoebicidal, antifungal, antitubercular and trichomonicidal actions of, 17, 294
3-Butyl-1-ethyl-6-thioxanthine, choline salt, broncho-

dilator, coronary dilator and other pharmacological actions and toxicity of, 17, 197

N-Butvl-2-hydroxyiminomethylpyridinium, as antidote in organophosphate poisoning, 14, 192

N-Butyl-2-hydroxyiminomethylpyridinium (cont.) , reactivating action on organophosphate-inactivated cholinesterase and synthesis of, 14, 195

S-Butylisothiourea, pain-producing action of, in man, 14, 532

1-Butyl-3-methyl-6-thioxanthine, choline salt, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, 17, 197

3-Butyl-1-methyl-6-thioxanthine, choline salt, bronchodilator, coronary dilator and other pharmacological

actions and toxicity of, 17, 197

3-Butyl-7-methyl-6-thioxanthine, bronchodilator according to dilator actions and toxicity of, 17, 201 bronchodilator and

1-Butyl-3-methylxanthine, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, **17**, 197

3-Butyl-1-methylxanthine, choline salt, bronchodilator, coronary dilator and other pharmacological actions and toxicity of, 17, 197

5-Butyl-1-(5-nitrofurfurylideneamino)hydantoin, intravenous, localization in aqueous humour, cerebrospinal fluid and plasma, in dog, 24, 266

 (\pm) -N-Butylnoradrenaline, effect on uptake of noradrenaline by heart at low perfusion concentration, **25**, 34

6-Butyl-6-phenylpiperid-2-one, central depressant action and toxicity of, 25, 790

5-Butyl-5-phenylpyrrolid-2-one, central depressant action and toxicity of, 25, 790

1-Butyl-2,2,6,6-tetramethylpiperidine, ganglion-blocking action of, 13, 502

5-Butyl-2-thiohydantoin, antithyroid action of, 13, 351 N-Butyltryptamine. See 3-(2-Butylaminoethyl)indole N-Butylveratramine, toxicity of, 22, 394

Butyric acid, sodium salt, intestinal absorption of, effect of cetrimide and phloridzin on, in mouse, 24, 205

Butyrocholinesterase. See Cholinesterases, true Butyrylcholine, response of Tapes heart to, and effect of

benzoquinonium on, 25, 485 y-Butyrobetaine, effect on ventral root potentials in

spinal cord, 16, 262 y-Butyrolactone, central-nervous-depressant action of,

neurochemical aspects of, 20, 563

, effect on acetylcholine, γ -aminobutyric acid and 5-hydroxytryptamine in brain, in mouse and rat, 20,

-, effect on spinal reflexes, 22, 322

Butyrylcholine, response of auricular beat to, effect of guanethidine, phenoxybenzamine and other sympatholytics on, 17, 232

, response of heart beat to, and effect of atropine, cocaine, dexamphetamine, ephedrine, hexamethonium, levamfetamine, pronethalol, pseudoephedrine and tyramine on, 23, 401

, effect of propranolol on, 23, 404 N-2-Butyryloxyethyl-aa-dichloro-N-p-methylsulphonylbenzylacetamide, amoebicidal action of, 18, 131

4-Butyrylphloroglucinol 1,3-dimethyl ether, anthelmintic action of, 24, 714

4-Butyrylphloroglucinol 1-methyl ether, anthelmintic action of, 24, 714

3-Butyrylthiopropylene sulphide, antitubercular action and toxicity of, 15, 485

C

See pp'-3-Oxopentamethylenebis(trimethyl-62C47. phenylammonium) 172C58. See [2-(4-Benzoyl-2,6-dimethylphenoxy)ethyl]-

trimethylammonium