

**PHARMACOLOGY BIOCHEMISTRY
&
BEHAVIOR**

Index to

VOLUME 19

CONTENTS

Drug sensitivity of individual rats determines degree of drug discrimination.	
SCHECHTER, M. D.	1
Unique influences of ten drugs upon post-shock biting attack and pre-shock manual responding.	
EMLEY, G.S. and R. R. HUTCHINSON	5
An automated method for measurement of circling behavior in the mouse.	
TORELLO, M. W., J. CZEKAJEWSKI, E. A. POTTER, K. J. KOBER and Y. K. FUNG	13
Facilitation by α-adrenolytics of apomorphine gnawing behavior: Depression of threshold apomorphine concentration in the striatum of the rat.	
WISZNIOWSKA-SZAFRANIEC, G., L. DANEK, K. REICHENBERG and J. VETULANI	19
Effect of intraventricular adenosine on food intake in rats.	
LEVINE, A. S. and J. E. MORLEY	23
Interaction between noradrenergic and serotonergic brain systems as evidenced by behavioral and biochemical effects of microinjections of adrenergic agonists and antagonists into the median raphe nucleus.	
PŁAŹNIK, A., W. DANYSZ, W. KOSTOWSKI, A. BIDZIŃSKI and M. HAUPTMANN	27
Amphetamine: Differential effects on defensive flight and motor behavior in the rat.	
MOLLENAUER, S., C. JACKSON and T. POLLACK	33
A behavioral examination of convulsant benzodiazepine and GABA antagonist, Ro 5-3663, and benzodiazepine-receptor antagonist Ro 15-1788.	
FELDON, J., T. LERNER, D. LEVIN and M. MYSLOBODSKY	39
Changes in activities of fucokinase and fucosyltransferase in rat hippocampus after acquisition of a brightness discrimination reaction.	
POPOV, N., S. SCHMIDT, S. SCHULZECK, R. JORK, B. LÖSSNER and H. MATTHIES	43
Potentiation of apomorphine-induced stereotypies by naloxone and L-prolyl-L-leucyl-glycinamide.	
QUOCK, R. M., T. S. LUCAS and T. J. HARTL	49
Production of physical dependence on ethanol by a short drinking episode each day.	
TANG, M. and J. L. FALK	53
Automated analysis of stereotypic behavior induced by psychomotor stimulants.	
BRANN, M. R., M. HACKER, M. FINNERTY, J. ELLIS, R. H. LENOX and Y. H. EHRLICH	57
Genotypic variation in the dopaminergic inhibitory control of striatal and hippocampal cholinergic activity in mice.	
DURKIN, T. P., H. HASHEM-ZADEH, P. MANDEL, J. KEMPF and A. EBEL	63

Contents continued

Effects of acarbose on food intake, body weight and fat depots in lean and obese rats.	71
GLICK, Z. and G. A. BRAY	
Antinociception following microinjection of dibutyryl cyclic nucleotides into the caudal reticular formation and periaqueductal gray of the rat brain.	79
LEVY, R. A., H. K. PROUDFIT and B. D. GOLDSTEIN	
Effects of a glucosidase inhibitor (Acarbose, Bay g 5421) on the development of obesity and food motivated behavior in Zucker (fa/fa) rats.	85
VASSELLI, J. R., E. HARACZKIEWICZ, C. A. MAGGIO and M. R. C. GREENWOOD	
Discriminative stimulus properties of buspirone compared to central nervous system depressants in rats.	97
HENDRY, J. S., R. L. BALSTER and J. A. ROSECRANS	
Quantitation of tolerance development after chronic oxotremorine treatment.	103
MARKS, M. J., L. D. ARTMAN and A. C. COLLINS	
Tolerance to ethanol in rats bred on essential-fatty-acid deficient diets.	115
JONES, A. W., C. ALLING, W. BECKER and E. ÄNGGÅRD	
T-maze learning, spontaneous activity and food intake recovery following systemic administration of the noradrenaline neurotoxin, DSP4.	121
ARCHER, T., A. K. MOHAMMED, S. B. ROSS and U. SÖDERBERG	
Antagonism of alcohol hypnosis by blockade of prostaglandin synthesis and activity: Genotype and time course effects.	131
GEORGE, F. R., T. C. HOWERTON, G. I. ELMER and A. C. COLLINS	
Effects of amphetamine and apomorphine on locomotor activity after 6-OHDA and electrolytic lesions of the nucleus accumbens septi.	137
KELLY, P. H. and D. C. S. ROBERTS	

BRIEF COMMUNICATIONS

The discriminative stimulus properties of cocaine in the rhesus monkey.	
GARZA, R. DE LA and C. E. JOHANSON	145
The effects of levonantradol on rewarding brain stimulation thresholds in the rat.	
KUCHARSKI, L. T., J. E. G. WILLIAMS and C. KORNETSKY	149
Spontaneous and apomorphine-induced locomotor changes parallel dopamine receptor differences in two rat strains.	
HELMESTE, D. M.	153

CONTENTS

Influence of luteinizing hormone releasing hormone (LHRH) on the behavioral effects of amphetamine in rats.	
MORA, S. and G. DÍAZ-VÉLIZ	157
Opiate Effects on isolation-induced hyperthermia.	
FROHM, K. D. and L. B. WALLNAU	163
A biphasic influence of globus pallidus lesions: Spontaneous catalepsy followed by anticataleptic effect.	
OSSOWSKA, K., M. ŚMIAŁOWSKA and S. WOLFARTH	169
Differential clonidine effects on EEG following lesions of the dorsal and median raphe nuclei in rats.	
DYR, W., W. KOSTOWSKI, B. ZACHARSKI and A. BIDZINSKI	177
The influence of environmental variables on amphetamine-induced activity in the preweanling rat.	
RASKIN, L. A.	187
Effects of the chronic ingestion of therapeutic doses of chlorimipramine on the behavioral action of agonists and antagonists of serotonin in male rats.	
RODRÍGUEZ ECHANDÍA, E. L., S. T. BROITMAN and M. R. FÓSCOLO ..	193
The effects of chronic haloperidol administration on GABA receptor binding.	
HUFFMAN, R. D. and M. K. TICKU	199
Nisoxetine and amphetamine share discriminative stimulus properties in mice.	
SNODDY, A. M. and R. E. TESSEL	205
Effects of agonists and antagonists of D1 and D2 dopamine receptors on self-stimulation of the medial prefrontal cortex in the rat.	
FERRER, J. M. R., A. M. SANGUINETTI, F. VIVES and F. MORA	211
Tolerance to amphetamine-induced inhibition of neuronal activity in the central amygdaloid nucleus.	
REBEC, G. W. and E. H. LEE	219
The involvement of nigral serotonin innervation in the control of punishment-induced behavioral inhibition in rats.	
THIÉBOT, M.-H., M. HAMON and P. SOUBRIÉ	225
An <i>in-vivo</i> method for testing drugs that influence striatal dopaminergic functions.	
FUNG, Y. K. and R. D. SCHWARZ	231
Nalmefene decreases meal size, food and water intake and weight gain in Zucker rats.	
McLAUGHLIN, C. L. and C. A. BAILE	235
Facilitation of an operant task in the rat following injection of whole brain extract.	
MORRIS, P. E. and J. M. BEATON	241

Contents continued

Serine and glycine-induced catalepsy porphyric rats: An animal model for psychosis?	
SCHOUTEN, M. J., J. BRUINVELS, L. PEPPLINKHUIZEN and J. H. P. WILSON	245
Effects of heat-stress on behavior and the pituitary-adrenal axis in rats.	
GALINA, Z. H., C. J. SUTHERLAND and Z. AMIT	251
Strain dependent rate of Li⁺ elimination associated with toxic effects of lethal doses of lithium chloride in mice.	
EL-KASSEM, M. and S. M. SINGH	257
Drug-induced changes in motor activity after selective MAO inhibition.	
GIANUTSOS, G., G. M. CARLSON and J. G. GODFREY	263
The effects of morphine sulphate on ovulation in the immature rat treated with PMSG.	
HULSE, G. K. and G. J. COLEMAN	269
Long-lasting reduction in ethanol selection after involuntary intake of ethanol/chlordiazepoxide.	
CHAN, A. W. K., D. L. SCHANLEY and F. W. LEONG	275
Unilateral injection of GABA agonists in the superior colliculus: Asymmetry to tactile stimulation.	
DI SCALA, G., P. SCHMITT and P. KARLI	281
Regional rat brain noradrenaline turnover in response to restraint stress.	
GLAVIN, G. B., M. TANAKA, A. TSUDA, Y. KOHNO, Y. HOAKI and N. NAGASAKI	287
Nicotine dependence in cigarette smoking: An empirically-based, multivariate model.	
POMERLEAU, O. F., J. B. FERTIG and S. O. SHANAHAN	291
Morphine applied to the mesencephalic central gray suppresses brain stimulation induced escape.	
JENCK, F., P. SCHMITT and P. KARLI	301
Loss of cholinergic neurons in the rat neocortex produces deficits in passive avoidance learning.	
FRIEDMAN, E., B. LERER and J. KUSTER	309
Increased shock-induced fighting with supersensitive β-adrenergic receptors.	
HEGSTRAND, L. R. and B. EICHELMAN	313
Brain biogenic amines and pituitary-adrenocortical function in the rat.	
MAICKEL, R. P. and R. R. MARTEL	321
The role of associative factors in tolerance to the hypothermic effects of morphine in mice.	
SHAPIRO, N. R., B. C. DUDEK and R. A. ROSELLINI	327
Muscimol inhibits ADH release induced by hypertonic sodium chloride in rats.	
IOVINO, M., G. DE CARO, M. MASSI, L. STEARDO and S. POENARU	335
Caffeine modification of kindled amygdaloid seizures.	
ALBERTSON, T. E., R. M. JOY and L. G. STARK	339
Dose-dependent preconvulsant and anticonvulsant actions of the alpha₂ adrenergic agonist, xylazine, on kindled seizures in the rat.	
JOY, R. M., L. G. STARK and T. E. ALBERTSON	345
Suppression of lordotic responsiveness in the female rat during mesencephalic electrical stimulation.	
ARENDASH, G. W. and R. A. GORSKI	351

Autonomic drug effects and gastric secretion in a new experimental model of stress ulcers in rats.

- MINE, K., T. NODA, M. FUJIWARA, N. TSURUTA, S. UEKI and
T. NAKAGAWA 359

BRIEF COMMUNICATIONS**Cardiovascular and plasma prolactin responses to stereoisomers of phencyclidine.**

- BAYORH, M. A., D. LOZOVSKY, K. C. RICE, T. R. BURKE, JR., and
I. J. KOPIN 365

Therapeutic effects of GABA-ergic drugs in affective disorders. A preliminary report.

- EMRICH, H. M., H. ALTMANN, M. DOSE and D. VON ZERSSEN 369

Adrenalectomy potentiates drinking induced by renal artery constriction.

- ATKINSON, J. 373

**Abolition of conditioned heart-rate responses in rabbits following central administration of [N-MePhe³,
D-Pro⁴] morphiceptin.**

- LAVOND, D. G., M. D. MAUK, J. MADDEN, IV., J. D. BARCHAS and
R. F. THOMPSON 379

ANNOUNCEMENTS 383

*CONTENTS***Drug dependence: Myth or motive?**

FALK, J. L., Presidential Address, Division 28 of the American Psychological Association 385

Daily increase in noradrenaline turnover in brain regions of activity-stressed rats.TSUDA, A., M. TANAKA, Y. KOHNO, Y. IDA, Y. HOAKI, K. IIMORI,
R. NAKAGAWA, T. NISHIKAWA and N. NAGASAKI 393**Opiate antagonists, morphine and spatial memory in rats.**

BEATTY, W. W. 397

Adrenal modulation of opiate induced feeding.

LEVINE, A. S. and J. E. MORLEY 403

Behavioral effects of lesions of the central noradrenergic bundles in the rat.

VERLEYE, M. and F. BERNET 407

Phenytoin: Similarity to tricyclic antidepressants.

SCHECHTER, M. D. and N. L. GREER 415

Synergistic effect of propranolol and quipazine on desipramine enhanced shock-elicited fighting in rats.

PRASAD, V. and M. H. SHEARD 419

Effect of high doses of naloxone on shuttle avoidance acquisition in rats.TURNBULL, B. A., D. L. HILL, L. H. MILLER, J. MCELROY and
R. S. FELDMAN 423**The effect of opiate treatment on the postdecapitation reflex and monoamine metabolism
in the rat spinal cord.**

PLAZNIK, A., M. G. DE SIMONI and S. ALGERI 427

Hydrocortisone reduces auditory sensitivity at high tonal frequencies in adult males.

BECKWITH, B. E., K. LERUD, J. R. ANTES and B. W. REYNOLDS 431

Tolerance and sensitization to the biphasic effects of low doses of morphine in the hamster.

SCHNUR, P., F. BRAVO and M. TRUJILLO 435

Motivational properties of ethanol in naive rats as studied by place conditioning.

VAN DER KOOY, D., M. O'SHAUGHNESSY, R. F. MUCHA and H. KALANT 441

Potentiation of cold-water swim analgesia and hypothermia by clonidine.

BODNAR, R. J., K. P. MERRIGAN and E. SPERBER 447

Effects of body weight reduction and food deprivation on cocaine self-administration.

OEI, T. P. S. 453

Strain specific cholinergic changes in response to stress: Analysis of a time-dependent avoidance variation.

COOPER, D. O., D. E. SCHMIDT and R. J. BARRETT 457

Contents continued

Reserpine-induced rigidity in rats:	
Drug effects on muscle tone from corpus striatum and nucleus accumbens.	
JOHNELS, B.	463
Deuterium substitution enhances the effects of β-phenylethylamine on spontaneous motor activity in the rat.	
DOURISH, C. T., A. J. GREENSHAW and A. A. BOULTON	471
Evaluation of neurotensin's thermolytic action by ICV infusion with receptor antagonists and a Ca^{++} chelator.	
LEE, T. F., J. R. HEPLER and R. D. MYERS	477
Mucosal damage following electrical stimulation of the anterior cingulate cortex and pretreatment with atropine and cimetidine.	
HENKE, P. G.	483
Acute and chronic amphetamine treatment:	
Differential modification of exploratory behavior in a radial maze.	
BRUTO, V. and H. ANISMAN	487
Attenuation of perseverative behavior after repeated amphetamine treatment:	
Tolerance or attentional deficits?	
BRUTO, V., L. KOKKINIDIS and H. ANISMAN	497
Patterns of drinking in the rat following the administration of opiate antagonists.	
COOPER, S. J. and S. G. HOLTZMAN	505
The effects of alcohol induced malnutrition in pregnancy on offspring brain and behavioral development.	
BARTLEY, H. L., I. R. COYLE and G. SINGER	513
On the mechanism of serotonin-induced dipsogenesis in the rat.	
KIKTA, D. C., C. C. BARNEY, R. M. THREATTÉ, M. J. FREGLY, N. E. ROWLAND and J. E. GREENLEAF	519
Harmaline effects on the sensory-motor reactivity: Modifications of the acoustic startle pattern.	
PELLET, J., M. WEISS and M.-J. GOURDON	527
On the mechanism by which methylxanthines enhance apomorphine-induced rotation behaviour in the rat.	
FREDHOLM, B. B., M. HERRERA-MARSCHITZ, B. JONZON, K. LINDSTRÖM and U. UNGERSTEDT	535
Regional characteristics of stress-induced increases in brain noradrenaline release in rats.	
TANAKA, M., Y. KOHNO, R. NAKAGAWA, Y. IDA, S. TAKEDA, N. NAGASAKI and Y. NODA	543
Separation of clonazepam-induced head twitches and muscle relaxation in mice.	
NAKAMURA, M. and J. M. CARNEY	549
BRIEF COMMUNICATIONS	
Effects of urinary pH on the behavioral responses of squirrel monkeys to nicotine.	
GRUNBERG, N. E., D. E. MORSE and J. E. BARRETT	553
The effect of acute nicotine administration on plasma levels of the thyroid hormones and corticosterone in the rat.	
CAM, G. R. and J. R. BASSETT	559
ANNOUNCEMENTS	563

CONTENTS

Arginine vasopressin enhances retention of morphine tolerance.	
MOORE, J. E.	561
Effects of ethanol, given during pregnancy, on the offspring dopaminergic system.	
LUCCHI, L., V. COVELLI, V. V. PETKOV, P.-F. SPANO and M. TRABUCCHI	567
Ethanol preference following hypothalamic stimulation: Relation to stimulation parameters and energy balance.	
ATRENS, D. M., P. MARFAING-JALLAT and J. LE MAGNEN	571
The effect of peripherally administered satiety substances on feeding induced by butorphanol tartrate.	
MORLEY J. E., A. S. LEVINE, J. KNEIP, M. GRACE and C. J. BILLINGTON	577
Estrous cyclicity in rats fed an ethanol diet for four months.	
KRUEGER, W. A., W. J. BO and P. K. RUDEEN	583
Vasopressin and oxytocin content in cerebrospinal fluid and in various brain areas after administration of histamine and pentylenetetrazol.	
MENS, W. B. J., F. LACZI, J. A. D. M. TONNAER, E. R. DE KLOET and TJ. B. VAN WIMERSMA GREIDANUS	587
The effects of chronic amphetamine administration on the acquisition and extinction of an active and passive avoidance response in mice.	
KOKKINIDIS, L.	593
Failure of dexamethasone to influence sex differences in acquisition of discriminated lever press avoidance.	
HEINSBROEK, R. P. W., H. G. VAN OYEN, N. E. VAN DE POLL and G. J. BOER	599
Taste and nicotine as determinants of voluntary tobacco use by hamsters.	
KSIR, C.	605
Opiate regulation of maternal behavior in the rat.	
GRIMM, C. T. and R. S. BRIDGES	609
The involvement of gonads and gonadal steroids in the regulation of food intake, body weight and adiposity in the white leghorn cock.	
SNAPIR, N., B. ROBINSON and B. SHALITA	617
Anti-conflict and depressant effects by GABA agonists and antagonists, benzodiazepines, and non-gabergic anticonvulsants on self-stimulation and locomotor activity.	
HERBERG, L. J. and S. F. WILLIAMS	625
Effects of acrylamide on locomotion and central monoamine function in the rat.	
RAFALES, L. S., S. M. LASLEY, R. D. GREENLAND and T. MANDYBUR	635

Contents continued

Effects of ethanol on behaviour of aggressive mice from two different strains: A comparison of simple and complex behavioural assessments.	645
SMOOTHY, R. and M. S. BERRY	645
Substance P enhancement of passive and active avoidance conditioning in mice.	
SCHLESINGER, K., D. U. LIPSITZ, P. L. PECK, M. A. PELLEYMOUNTER, J. M. STEWART and T. N. CHASE	655
Disinhibition of muricide and irritability by intraseptal muscimol.	
POTEGAL, M., B. YOBURN and M. GLUSMAN	663
Multi-dimensional analyses of behavior in mice treated with morphine, endorphins and [des-tyrosine¹]-γ-endorphin.	
KAMEYAMA, T. and M. UKAI	671
Social isolation: Effects on pain threshold and stress-induced analgesia.	
PUGLISI-ALLEGRA, S. and A. OLIVERIO	679
Initial sensitivity and acute tolerance to ethanol in the P and NP lines of rats.	
WALLER, M. B., W. J. McBRIDE, L. LUMENG and T.-K. LI	683
Increased responsiveness to ethanol with advancing age in rats.	
YORK, J. L.	687
Suppression of exploratory locomotor activity by the local application of dopamine or <i>l</i>-noradrenaline to the nucleus accumbens of the rat.	
SVENSSON, L. and S. AHLENIUS	693
Effects of heroin, methadone, LAAM and cyclazocine on acquisition and performance of response sequences in monkeys.	
MOERSCHBAECHER, J. M., D. M. THOMPSON and P. J. WINSAUER	701
Self-administration of ketocyclazocine and ethylketocyclazocine by the rat.	
YOUNG, G. A. and N. KHAZAN	711
Electromyographic power spectral changes associated with the sleep-awake cycle and with diazepam treatment in the rat.	
YOUNG, G. A. and N. KHAZAN	715
The effects of single and repeated doses of maprotiline, oxaprotiline and its enantiomers on foot-shock induced fighting in rats.	
MOGILNICKA, E., C. G. BOISSARD, P. C. WALDMEIER and A. DELINI-STULA	719
 BRIEF COMMUNICATIONS	
Play soliciting in juvenile male rats: Effects of caffeine, amphetamine and methylphenidate.	
THOR, D. H. and W. R. HOLLOWAY, JR.	725
A microcomputer method for behavioural data acquisition and subsequent analysis.	
DEPAULIS, A.	729

CONTENTS

Amnesia attenuation specificity:**Propranolol reverses norepinephrine but not cycloheximide-induced amnesia.**

ELLIS, M. E., R. F. BERMAN and R. P. KESNER 733

N-allylnormetazocine (SKF-10,047): The induction of feeding by a putative sigma agonist.

GOSNELL, B. A., A. S. LEVINE and J. E. MORLEY 737

Differential effects of selective dopamine, norepinephrine or catecholamine depletion on activity and learning in the developing rat.RASKIN, L. A., B. A. SHAYWITZ, G. M. ANDERSON, D. J. COHEN,
M. H. TEICHER and J. LINAKIS 743**Discriminative stimulus control with imipramine: Transfer to other anti-depressants.**

SCHECHTER, M. D. 751

Interference by a nonpharmacological factor on the action of psychoactive drugs in rats.**A comparative study.**

SILVA-FILHO, A. R., H. M. LODDER and J. MASUR 755

Cataleptogenic potency of the antipsychotic drugs is inversely correlated with neuronal activity in the amygdaloid complex of the rat.

REBEC, G. V., J. GELMAN, K. D. ALLOWAY and T. R. BASHORE 759

Prolonged animal observation by use of digitized videodisplays.

SPRUIJT, B. M. and W. H. GISPEN 765

A comparison of the effects of corticotropin releasing factor and sauvagine on food intake.

GOSNELL, B. A., J. E. MORLEY and A. S. LEVINE 771

Effects of prenatal exposure to morphine sulfate on reproductive function of female rats.

VATHY, I. U., A. M. ETGEN, J. RABII and R. J. BARFIELD 777

Further studies on alterations in male rat copulatory behavior induced by the dopamine-receptor agonist RDS-127.

CLARK, J. T., M. L. STEFANICK, E. R. SMITH and J. M. DAVIDSON 781

Chlordiazepoxide increases the force of two topographically distinct operant responses in rats.

FOWLER, S. C., R. M. LEWIS, S. E. GRAMLING and G. L. NAIL 787

Leucinal inhibits brain aminopeptidase activity and potentiates analgesia induced by leu-enkephalin.

DAVIS, K. R., D. E. HERNANDEZ and R. WOLFENDEN 791

The role of endogenous opioids in the blockade of reproductive function in the rat following exposure to acute stress.

HULSE, G. K. and G. J. COLEMAN 795

Contents continued

Comparative effects of estradiol stereoisomers on pimozide-induced catalepsy.	
JOHNSON, N. J. and R. STEVENS	801
Hypophysectomy-induced striatal hypersensitivity and mesolimbic hyposensitivity to apomorphine.	
GORDON, J. H.	807
Rotational behavior following cholinergic stimulation of the superior colliculus in rats.	
WELDON, D. A., L. C. CALABRESE and K. J. NICKLAUS	813
Tripeplennamine effects on body and organ weights, water intake, and several behaviors of rats.	
NANRY, K. P., R. G. SEWELL, JR., J. A. GALLUS, S. A. VANECEK and A. POLING	821
Systemic naloxone increases the incidence of motion sickness in the cat.	
CRAMPTON, G. H. and N. G. DAUNTON	827
Effects of catecholamine agonist and antagonist drugs on acute stomach ulceration induced by medial hypothalamic lesions in rats.	
NOBREGA, J. N. and N. I. WIENER	831
Increased susceptibility of audiogenic rats to barbital withdrawal convulsions.	
BOURN, W. M. and R. L. GARRETT	839
Effects of minimum-interreinforcer interval on ethanol-maintained performance of rats.	
BEARDSLEY, P. M., G. A. LEMAIRE and R. A. MEISCH	843
Monoamine and metabolite levels in CNS regions of the P line of alcohol-preferring rats after acute and chronic ethanol treatment.	
MURPHY, J. M., W. J. McBRIDE, L. LUMENG and T.-K. LI	849
Behavioral and physiological effects of capsaicin in red-winged blackbirds.	
MASON, J. R. and J. A. MARUNIAK	857
Effects of mu- and kappa-opioid receptor agonists on urinary output in mice.	
RATHBUN, R. C., R. W. KATTAU and J. D. LEANDER	863
Affinity for the dopamine D₂ receptor predicts neuroleptic potency in blocking the reinforcing effect of MFB stimulation.	
GALLISTEL, C. R. and A. J. DAVIS	867
Serotonin receptor antagonists induce hyperalgesia without preventing morphine antinociception.	
BERGE, O.-G., O. B. FASMER and K. HOLE	873
Antinociceptive activity of N-(4-hydroxyphenacetyl)-4-aminoclondidine, a novel analog of clonidine: Role of opioid receptors and <i>alpha</i>-adrenoceptors.	
HYNES, M. D., D. ATLAS and R. R. RUFFOLO, JR.	879
Attack stress and IgE antibody production in rats.	
ITO, Y., K. MINE, Y. AGO, T. NAKAGAWA, M. FUJIWARA and S. UEKI ..	883
Cigarette smokers self-administer intravenous nicotine.	
HENNINGFIELD, J. E., K. MIYASATO and D. R. JASINSKI	887

BRIEF COMMUNICATIONS

Excitatory effects of the vasodilator hydralazine on acoustic startle in the rat.	
COMMISSARIS, R. L. and M. DAVIS	891

PHARMACOLOGY BIOCHEMISTRY & BEHAVIOR

Evidence for intrinsic behavioural activity of the benzodiazepine antagonist, Ro15-1788, in male mice.	
RODGERS, R. J., A. J. WATERS and S. ROSENFIELD	895
Toluene inhalation and anxiolytic activity: Possible synergism with diazepam.	
GELLER, I., R. J. HARTMANN, V. MENDEZ and E. M. GAUSE	899
6-Hydroxydopamine and 5,7-dihydroxytryptamine selectively reduce dopamine and 5-hydroxytryptamine metabolites in cerebroventricular perfusates of rats.	
NIELSEN, J. A. and K. E. MOORE	905
BOOKS RECEIVED
	909

CONTENTS

Effects of pentazocine and tripeleannamine on analgesia.	
CLEARY, J., S. WALLACE, D. GROSSETT, M. PICKER and A. POLING	911
Hypophysectomy prevents yawning and penile erection but not hypomotility induced by apomorphine.	
SERRA, G., M. COLLU, S. LODDO, G. CELASCO and G. L. GESSA	917
The stinging response of the honeybee: Effects of morphine, naloxone and some opioid peptides.	
NÚÑEZ, J., H. MALDONADO, A. MIRALTO and N. BALDERRAMA	921
The lack of effects of somatostatin on gastric responses induced by electrical vagal stimulation.	
CHO, C. H., S. W. CHEN, S. M. CHEN and L. T. HO	925
Intraventricular glucose administration inhibits feeding in sated but not in 24 hours food deprived cocks.	
ROBINSON, B. and N. SNAPIR	929
Effect of exposure to high concentrations of toluene on ethanol preference of laboratory rats.	
GELLER, I., R. J. HARTMANN and E. M. GAUSE	933
Inhibition of morphine-induced analgesia and locomotor activity in strains of mice: A comparison of long-acting opiate antagonists.	
FRISCHKNECHT, H.-R., B. SIEGFRIED, G. RIGGIO and P. G. WASER	939
Feeding behavior induced by central norepinephrine injection is attenuated by discrete lesions in the hypothalamic paraventricular nucleus.	
LEIBOWITZ, S. F., N. J. HAMMER and K. CHANG	945
Strain differences in susceptibility to the convulsant actions of 3-carbomethoxy-β-carboline.	
SCHWERI, M. M., S. M. PAUL and P. SKOLNICK	951
Behavioral comparison of pentylenetetrazol, clonidine, chlordiazepoxide and diazepam in infant rats.	
PAPPAS, B. A. and P. WALSH	957
Effects of cholinergic drugs on delayed match-to-sample performance of rhesus monkeys.	
PENETAR, D. M. and J. H. McDONOUGH, JR.	963
A caerulein-sensitive potentiation of the behavioral effects of apomorphine by dibutyryl-cAMP.	
ELLINWOOD, E. H., JR., W. J. K. ROCKWELL and N. WAGONER	969
Tonic convulsive thresholds and responses during the postnatal development of rats administered 6-hydroxydopamine or 5,7-dihydroxytryptamine within three days following birth.	
WALLER, S. B. and G. G. BUTERBAUGH	973
Ionizing radiation alters beta-endorphin-like immunoreactivity in brain but not blood.	
MICKLEY, G. A., K. E. STEVENS, G. H. MOORE, W. DEERE, G. A. WHITE, G. L. GIBBS and G. P. MUELLER	979

Contents continued

The suppression of ethanol self injection by buprenorphine.	
MARTIN, A., R. PILOTTO, G. SINGER and T. P. S. OEI	985
 MEETING REPORT	
Nicotine as a reinforcer in human subjects and laboratory animals
Nicotine as a reinforcer in human subjects and laboratory animals.
HENNINGFIELD, J. E. and S. R. GOLDBERG	989
 Nicotine self-administration in baboons.	
ATOR, N. A. and R. R. GRIFFITHS	993
 Schedule-induction of nicotine self-administration.	
SLIFER, B. L.	1005
 Control of behavior by intravenous nicotine injections in laboratory animals.	
GOLDBERG, S. R., R. D. SPEALMAN, M. E. RISNER and J. E. HENNINGFIELD	1011
 Control of behavior by intravenous nicotine injections in human subjects.	
HENNINGFIELD, J. E. and S. R. GOLDBERG	1021
 Interrelationships between behavior and pharmacology as factors determining the effects of nicotine.	
BARRETT, J. E.	1027
 BRIEF COMMUNICATIONS	
 Malathion administration: Effects on physiological and physical performance in the heat.	
FRANCESCONI, R., R. HUBBARD and M. MAGER	1031
 CSF-plasma relationships for DSIP and some other neuropeptides.	
BANKS, W. A. and A. J. KASTIN	1037
 Postweaning copper restriction and behavior in the Long-Evans rat.	
THORNE, B. M., K.-N. LIN, M. L. WEAVER, B. N. WU and D. M. MEDEIROS	1041
 The effect of naloxone on intragastric ethanol self-administration.	
SINDEN, J. D., P. MARFAING-JALLAT and J. LE MAGNEN	1045
 A simple and rapid technique for preparing histological sections of brain.	
SHAPIRO, R. M., J. I. BADALAMENTI and S. D. GLICK	1049
 Fate of tritium derived from prenatally administered tritiated methadone in dams and neonatal rats.	
LEVITT, M., D. E. HUTCHINGS and S. R. BODNARENKO	1051
 ERRATUM	1055
 INDEX TO VOLUME 19	1057

PHARMACOLOGY BIOCHEMISTRY & BEHAVIOR

VOLUME 19 1983

SUBJECT INDEX

- Abuse liability, 149
intracranial stimulation
levonantradol
medial forebrain bundle
reward thresholds
- Acarbose
body weight, 71
carbohydrate absorption, 85
diet composition, 71
eating, 71, 85
obesity, 85
obesity, dietary, 71
strain differences, 85
- Acoustic startle reflex
blood pressure, 891
guinea pigs, 527
harmaline, 527
hydralazine, 891
pinna reflex, 527
sensory motor reactivity, 527
vertex potentials, 527
- Acquisition, repeat, 701
lever press
monkeys
multiple schedule
- Acrylamide, 635
histopathology
locomotor activity
- ACTH 4-10, 561
arginine vasopressin
morphine tolerance
retention
- Active avoidance, 655
passive avoidance
retention
strain differences
substance P
- Activity, 251
foot shock
pituitary-adrenal axis
stress, heat induced
- Activity, stress paradigm, 393
gastric ulcers
noradrenaline turnover
wheel running
- Acute ethanol treatment, 849
chronic ethanol treatment
CNS monoamines
- Adenosine, 23
appetite
eating
purines
- ADH release, 335
hypertonic sodium chloride
muscimol
route of administration
- Adipsia, 169
aknesia
aphagia
biphasic effects
catalepsy, spiperone-induced
lesions, globus pallidus
muscular rigidity
ptosis
- Adjunctive behavior, 385
drugs and culture
drug dependence
drugs and violence
- Adrenal cortex, 321
biogenic amines
drug interactions
pituitary-adrenal axis
- Adrenalectomy
butorphanol tartrate, 403
catecholamines, 373
drinking, 373
eating, 403
ethylketocyclazocine, 403
opiates, 403
renin-angiotensin, 373
- Adrenergic agents, 27
biochemical effects
locomotor activity
median raphe nucleus
microinjections
open field
serotonin metabolism
- Adrenergic blockers, 359
aggressive behavior
anticholinergic drugs
gastric secretion
stress ulcers, drug induced
- β -Adrenergic receptors, 313
aggressive behavior
shock-induced fighting
- α -Adrenolytics, 19
apomorphine
dopamine
drug interactions
stereotypy
striatum
- Affective behavior, 33
amphetamine
animal model, affective psychosis
- defensive flight
stereotypy
- Age differences, 687
ethanol
hypnosis
hypothermia
- Aggression
attack, 5
biting, 5
fixed ratio schedule, 5
immunoglobulin E (IgE), 883
irritability, 663
lever-press, 5
muricide, 663
muscimol, 663
response-independent shock, 5
squirrel monkeys, 5
stress, 883
- Aggressive behavior
adrenergic blockers, 359
 β -adrenergic receptors, 313
anticholinergic drugs, 359
gastric secretion, 359
shock-induced fighting, 313
stress ulcers, drug induced, 359
- Agonistic behavior, 645
ethanol
ethological analysis
social interactions
strain differences
- Akinesia, 169
adipsia
aphagia
biphasic effects
catalepsy, spiperone-induced
lesions, globus pallidus
muscular rigidity
ptosis
- Alcohol
ethanol, 683
jump test, 683
malnutrition, alcohol induced, 513
prenatal exposure, 513
selective breeding, 683
tolerance, 683
- Alcohol hypnosis, 131
central nervous system depression
genetic factors
prostaglandin synthesis
selective breeding
sex differences

- N-Allylnormetazocine, 737
 eating
 opiate receptors
 SKF-10,047
- Alpha₂** adrenergic agonists, 345
 kindling
 nervous system
 seizures, drug induced
- Alpha-adrenoceptors**, 879
 opioid receptors
 writhing
- Alzheimer disease, 309
 choline acetyltransferase
 lesions, kainic acid
 lesions, ventrolateral globus pallidus
 memory
 passive avoidance
- Aminopeptidases**, 791
 analgesia
 leucine
 neuropeptides
- Amnesia**, 733
 aversion
 memory mechanisms
- Amphetamine**
 affective behavior, 33
 animal model, affective psychosis, 33
 apomorphine, 57, 137
 avoidance, 593
 caffeine, 725
 conditioned avoidance, 157
 defensive flight, 33
 discrimination, 205
 dopaminergic mechanisms, 157
 drug interaction, 725
 exploration, 487, 497
 extinction, 593
 familiar cues, 187
 fixed ratio schedule, 205
 hyperactivity, 137, 187
 lesions, electrolytic, 137
 lesions, 6-hydroxydopamine, 137
 lesions, nucleus accumbens, 137
 LHRH, 157
 locomotor activity, 137
 methylphenidate, 725
 morphine, 57
 nisoxetine, 205
 perseveration, 487, 497
 play soliciting, juvenile rats, 725
 preweanling treatment, 187
 radial maze, 487, 497
 rotation sensing device, 57
 spontaneous motor activity, 157
 stereotypy, 33, 57
- d-Amphetamine, 219
 apomorphine
 central amygdaloid nucleus
 postsynaptic dopamine receptors
 tolerance
- Amygdaloid complex**, 759
 antipsychotic drugs
 catalepsy
 drug interaction
- Analgesia**
 aminopeptidase, 791
 antinociception, 79
 caudal reticular formation, 79
 clonidine, 447
 cold water swim, 447
 cyclic nucleotides, 79
 drug interaction, 911
- group housing, 679
 hypothermia, 447
 inbred mice, 939
 isolated housing, 679
 lesions, locus coeruleus, 447
 leucine, 791
 locomotor activity, 939
 neuropeptides, 791
 nociceptive threshold, 79
 pentazocine, 911
 periaqueductal gray, 79
 social isolation, 679
 tail flick, 447
 tripeptidylamine, 911
- Analysis**, 729
 behavioral data acquisition
 microcomputer
- Animal model**, 245
 catalepsy
 glycine
 psychosis
 serine
- Animal model, affective psychosis, 33
 affective behavior
 amphetamine
 defensive flight
 stereotypy
- Anticholinergic drugs**, 359
 adrenergic blockers
 aggressive behavior
 gastric secretion
 stress ulcers, drug induced
- Anticonvulsants**, 369
 depression
 GABA
 human studies
- Antinociception**, 79
 analgesia
 caudal reticular formation
 cyclic nucleotides
 nociceptive threshold
 periaqueductal gray
- Antipsychotic drugs**, 759
 amygdaloid complex
 catalepsy
 drug interaction
- Anxiety**
 benzodiazepine antagonists, 39
 convulsants, 39
 GABA, 39
 punishment, 225
 RO 5-3663, 39
 RO 15-1788, 39
 serotonin, 225
 substantia nigra, 225
- Anxiolytic action**, 899
 conflict behavior
 diazepam
 drug interactions
 toluene exposure
- Aphagia**, 169
 adipsia
 akinesia
 biphasic effects
 catalepsy, spiperone-induced
 lesions, globus pallidus
 muscular rigidity
 ptosis
- Apomorphine**
 α-adrenolytics, 19
 amphetamine, 57, 137
 d-amphetamine, 219
- caerulein, 969
 central amygdaloid nucleus, 219
 dibutyryl-cAMP, 969
 dopamine, 19
 dopaminergic activity, 49
 dopamine receptor system, 153
 dopaminergic supersensitivity, 199
 drug interactions, 19
 GABA receptor binding, 199
 gastrin peptides, 969
 haloperidol, 199
 hyperactivity, 137
 lesions, electrolytic, 137
 lesions, 6-hydroxydopamine, 49, 137
 lesions, nucleus accumbens, 137
 lesions, substantia nigra, 49
 locomotor activity, 137, 153
 morphine, 57
 muscimol, 199
 naloxone, 49
 L-prolyl-L-leucyl-glycinamide, 49
 postsynaptic dopamine receptors, 219
 rotation sensing device, 57
 stereotypy, 19, 49, 57, 153, 199
 strain differences, 153
 striatum, 19
 tolerance, 219
- Apomorphine sensitivity**, 1
 drug discrimination
 operant learning
- Apparatus**
 automated rotation measurement
 device, 13
 microcomputer, 729
 radial maze, 487, 497
 rotation sensing device, 57
 shuttle avoidance, 423
- Appetite**, 23
 adenosine
 eating
 purines
- Arginine vasopressin**, 561
 ACTH 4-10
 morphine tolerance
 retention
- Attack**, 5
 aggression
 biting
 fixed ratio schedules
 lever-press
 response-independent shock
 squirrel monkeys
- Audiogenicity**, 839
 barbiturate withdrawal
 convulsions
 epilepsy
- Auditory stimulus**, 53
 drinking
 ethanol dependence
 polydipsia, schedule-induced
 withdrawal
- Auditory threshold**, 431
 human studies
 hydrocortisone
 neuroendocrine
 perception
- Automated rotation measurement**, 13
 circling behavior
 lesions, 6-hydroxydopamine
 lesions, striatum
 striatal dopaminergic system

- Aversion**
 amnesia, 733
 ethanol, 441
 memory mechanisms, 733
 place conditioning, 441
- Avoidance**
 amphetamine, 593
 catecholamines, 743
 copper deficiency, 1041
 dexamethasone, 599
 drinking, 1041
 escape latency, 423
 extinction, 593
 human studies, 1021
 intertrial response, 423
 lever press, 599
 muricide, 1041
 naloxone, 423
 neonatal depletion, 743
 nicotine, 1021
 open field, 1041
 opioid receptors, 423
 pituitary adrenocortical system, 599
 post shock motor suppression, 457
 reinforcement schedule, 1021
 self-administration, 1021
 sex differences, 599
 strain differences, 457
 stress, 457
- Baboons**, 993
 drug reinforcement
 nicotine
 self-administration
- Barbiturates**, 625
 GABA
 locomotor activity
 self stimulation
- Barbiturate withdrawal**, 839
 audiogenicity
 convulsions
 epilepsy
- Beagle dogs**, 1011
 fixed ratio schedule
 nicotine
 squirrel monkeys
- Behavioral consequences**, 1027
 electric shock
 nicotine
 pharmacology
- Behavioral data acquisition**, 729
 analysis
 microcomputer
- Benzodiazepines**, 957
 drug interaction
 seizures
- Benzodiazepine antagonists**
 anxiety, 39
 3-carbomethoxy- β -carboline, 951
 convulsants, 39
 exploration, 895
 GABA, 39
 locomotor activity, 895
 RO 5-3663, 39
 RO 15-1788, 39, 895
 strain differences, 951
- Biochemical effects**, 27
 adrenergic agents
 locomotor activity
 median raphe nucleus
 microinjections
- open field**
 serotonin metabolism
- Biogenic amines**, 321
 adrenal cortex
 drug interactions
 pituitary-adrenal axis
- Biphasic effects**, 169
 adipisia
 akinesia
 aphagia
 catalepsy, spiperone-induced
 lesions, globus pallidus
 muscular rigidity
 ptosis
- Biting**, 5
 aggression
 attack
 fixed ratio schedule
 lever-press
 response-independent shock
 squirrel monkeys
- Blackbirds**, 857
 discrimination
 drinking
 thermoregulation
- Blood pressure**
 acoustic startle, 891
 heart rate, 365
 hydralazine, 891
 phencyclidine, 365
 plasma prolactin, 365
- Body temperature**, 103
 choline uptake
 chronic administration
 muscarinic receptors
 oxotremorine
 rotarod performance
 tolerance
- Body weight**
 acarbose, 71
 catalepsy, 801
 cocaine, 453
 diet composition, 71
 drinking, 821
 eating, 71
 estradiol stereoisomers, 801
 food deprivation, 453
 locomotor activity, 801, 821
 obesity, dietary, 71
 organ weight, 821
 self-administration, 453
- Brain**
 adrenal medulla, 403
 amygdala, 339, 345, 393, 543, 733, 759
 basal ganglia, 393, 543
 blood-brain barrier, 1037
 brainstem, 527
 caudal reticular formation, 79
 central amygdaloid nucleus, 219
 central nervous system, 97, 403, 567, 725
 cerebellum, 121, 849
 cerebral cortex, 393, 543, 849
 cerebral ventricle, 477
 cingulate cortex, 483
 corpus striatum, 463
 cortex, 121, 321, 587
 dorsal noradrenergic bundle, 403
 dorsal raphe nuclei, 351
 globus pallidus, 169
 hippocampus, 43, 63, 121, 393, 457, 543, 587, 849
- hypothalamus**, 393, 477, 543, 587, 795, 831, 849, 929, 945
 lateral hypothalamus, 571
 medial forebrain bundle, 149
 medial hypothalamus, 301
 medial prefrontal cortex, 211
 median raphe nucleus, 27
 mesencephalic central gray, 301
 mesencephalic median, 351
 mesolimbus, 807
 midbrain, 393, 849, 929
 midbrain reticular formation, 813
 neocortex, 309
 neostriatum, 693
 nigrostriatal pathway, 57
 nigro-striatum, 535
 nucleus accumbens, 463, 693
 nucleus accumbens septi, 137, 807
 olfactory tubercle, 153
 paraventricular nucleus, 945
 periaqueductal gray, 79, 351
 pituitary, 251, 321, 917
 pons-medulla, 849
 pons medulla oblongata, 393, 543
 raphe nuclei, 177, 225
 septum, 587, 635, 663
 striatum, 13, 19, 63, 153, 231, 635, 807, 849
 substantia nigra, 49, 199, 225
 superior colliculus, 281, 813
 thalamus, 543, 635, 849
 ventral globus pallidus, 309
 ventral noradrenergic bundle, 407
- Brain catecholamines**, 407
 conditioned emotional response
 lesions, central noradrenergic bundle
 open field
 startle response
- Brightness discrimination**, 43
 fucokinase
 fucosyltransferase
 glycoprotein synthesis
 hippocampus
 L-fucose
- Buprenorphine**, 985
 ethanol
 schedule induced self injection
- Buspirone**, 97
 central nervous system
 discrimination
- Butorphanol**, 577
 eating
 opiates
- Butorphanol tartrate**, 403
 adrenalectomy
 eating
 ethylketocyclazocine
 opiates
- Caerulein**, 969
 apomorphine
 dibutyryl-cAMP
 gastric peptides
- Caffeine**
 amphetamine, 725
 drug interaction, 725
 kindled amygdaloid seizures, 339
 methylphenidate, 725
 play soliciting, juvenile rats, 725
 seizure threshold, 339

- Carbohydrate absorption, 85
 acarbose
 eating
 obesity
 strain differences
- 3-Carbomethoxy- β -carboline, 951
 benzodiazepine
 strain differences
- Cats, 827
 emesis
 motion sickness
 naloxone
- Catalepsy
 amygdaloid complex, 759
 animal model, 245
 antipsychotic drugs, 759
 body weight, 801
 drug interaction, 759
 estradiol stereoisomers, 801
 glycine, 245
 locomotor activity, 801
 psychosis, 245
 serine, 245
- Catalepsy, spiperone-induced, 169
 adipisia
 akinesia
 aphagia
 biphasic effects
 lesions, globus pallidus
 muscular rigidity
 ptosis
- Catecholamines
 adrenalectomy, 373
 avoidance, 743
 convulsions, 973
 drinking, 373
 drug interaction, 831, 973
 electroshock, 973
 gastric ulcers, 831
 lesions, hypothalamic, 831
 neonatal depletion, 743
 renin-angiotensin, 373
- Caudal reticular formation, 79
 analgesia
 antinociception
 cyclic nucleotides
 nociceptive threshold
 periaqueductal gray
- Central amygdaloid nucleus, 219
 d-amphetamine
 apomorphine
 postsynaptic dopamine receptors
 tolerance
- Central nervous system, 97
 buspirone
 discrimination
- Central nervous system depression, 131
 alcohol hypnosis
 genetic factors
 prostaglandin synthesis
 selective breeding
 sex differences
- Cerebrospinal fluid, 1037
 delta sleep-inducing peptide
 neurohormones
 neuropeptides
- Cerebroventricular perfusates, 905
 dopamine metabolites
 5-hydroxytryptamine metabolite
- Chickens
 eating, 929
 food deprivation, 929
- glucose, 929
 hyperthermia, 163
 isolation housing, 163
 opiates, 163
 social isolation, 163
- Chlordiazepoxide
 drug interaction, 275
 ethanol preference, 275
 operant behavior, 787
 response force, 787
- Chlorimipramine, 193
 chronic administration
 exploratory behavior
 locomotor activity
 myoclonus
 resting time
 serotonin
- Cholin acetyltransferase, 309
 Alzheimer disease
 lesions, kainic acid
 lesions, ventrolateral globus pallidus
 memory
 passive avoidance
- Choline uptake, 103
 body temperature
 chronic administration
 muscarinic receptors
 oxotremorine
 rotarod performance
 tolerance
- Cholinergic drugs, 963
 delayed match-to-sample
 rhesus monkeys
 short-term memory
- Cholinergic drug interaction, 63
 dopamine receptors
 genotypic variation
 hippocampus
 neuroleptics
 striatum
- Cholinesterase inhibition, 1031
 heat injury
 hyperthermic exhaustion
 malathion
- Chronic administration
 body temperature, 103
 chlorimipramine, 193
 choline uptake, 103
 exploratory behavior, 193
 locomotor activity, 193
 maprotiline, 719
 muscarinic receptors, 103
 myoclonus, 193
 oxaprotiline, 719
 oxotremorine, 103
 resting time, 193
 rotarod performance, 103
 serotonin, 193
 shock induced fighting, 719
 tolerance, 103
- Chronic ethanol treatment, 849
 acute ethanol treatment
 CNS monoamines
- Cigarette smoking, 291
 human studies
 nicotine dependence
 plasma cotinine
- Cingulate cortex, 483
 gastric pathology
 mucosal erosions
 stimulation, electrical
- Circling behavior
 automated rotation measurement, 13
 dopamine, 231
 drug interaction, 231
 lesions, 6-hydroxydopamine, 13
 lesions, striatum, 13
 striatal dopaminergic system, 13
 striatum, 231
- Clonazepam, 549
 drug interaction
 head twitches
 muscle relaxation
- Clonidine
 analgesia, 447
 cold water swim, 447
 EEG, 177
 hypothermia, 447
 lesions, electrolytic, 177
 lesions, locus coeruleus, 447
 lesions, raphe nuclei, 177
 tail flick, 447
- CNS monoamines, 849
 acute ethanol treatment
 chronic ethanol treatment
- Cocaine
 body weight, 453
 discriminative stimulus properties, 145
 food deprivation, 453
 rhesus monkeys, 145
 self-administration, 453
- Cold water swim, 447
 analgesia
 clonidine
 hypothermia
 lesions, locus coeruleus
 tail flick
- Computerized animal observation, 765
 microcomputer
 videodigitizer
- Conditioned avoidance, 157
 amphetamine
 dopaminergic mechanisms
 LHRH
 spontaneous motor activity
- Conditioned emotional response, 407
 brain catecholamines
 lesions, central noradrenergic bundle
 open field
 startle response
- Conditioned fear, 379
 heart rate conditioning
 opiates
 rabbits
- Conditioned response, 327
 morphine
 thermoregulation
 tolerance
- Conditioned taste aversion
 CRF, 771
 deuterium substitution, 471
 eating, 771
 motor activity, 471
 β -phenylethylamine, 471
 sauvagine, 771
- Conflict behavior, 899
 anxiolytic action
 diazepam
 drug interactions
 toluene exposure
- Convulsants, 39
 anxiety

- benzodiazepine antagonists
 GABA
 RO 5-3663
 RO 15-1788
 Convulsions
 audiogenicity, 839
 barbiturate withdrawal, 839
 catecholamines, 973
 drug interaction, 973
 electroshock, 973
 epilepsy, 839
 Copper deficiency, 1041
 avoidance
 drinking
 muricide
 open field
 Corpus striatum, 463
 muscle tone
 nucleus accumbens
 reserpine rigidity
 CRF, 771
 conditioned taste aversion
 eating
 sauvagine
 Cyclic AMP, 535
 dopamine receptors
 drug interaction
 lesions, nigro-striatal pathway
 pharmacokinetics
 rotation behavior
 Cyclic nucleotides, 79
 analgesia
 antinociception
 caudal reticular formation
 nociceptive threshold
 periaqueductal gray

 Defensive flight, 33
 affective behavior
 amphetamine
 animal model, affective psychosis
 stereotypy
 Delayed match-to-sample, 963
 cholinergic drugs
 rhesus monkeys
 short-term memory
 Delta sleep-inducing peptide, 1037
 cerebrospinal fluid
 neurohormones
 neuropeptides
 Depression, 369
 anticonvulsants
 GABA
 human studies
 Deuterium substitution, 471
 conditioned taste aversion
 motor activity
 β -phenylethylamine
 Dexamethasone, 599
 avoidance
 lever press
 pituitary-adrenocortical system
 sex differences
 Diazepam
 anxiolytic action, 899
 conflict behavior, 899
 drug interactions, 899
 EMG activity, 715
 power spectral analysis, 715
 sleep-wake cycle, 715
 toluene exposure, 899

 Dibutyryl-cAMP, 969
 apomorphine
 caerulein
 gastric peptides
 Diet composition, 71
 acarbose
 body weight
 eating
 obesity, dietary
 Diet deficiency, 115
 drinking
 eating
 essential fatty acids
 ethanol metabolism
 ethanol tolerance
 Dipsogenesis, serotonin-induced, 519
 drinking
 drug interaction
 5-hydroxytryptophan
 Discrimination
 amphetamine, 205
 blackbirds, 857
 buspirone, 97
 central nervous system, 97
 drinking, 857
 drug interaction, 415
 fixed ratio schedule, 205
 nisoxetine, 205
 operant behavior, 415
 thermoregulation, 857
 Discriminative stimulus properties, 145
 cocaine
 rhesus monkeys
 Dopamine
 α -adrenolytics, 19
 apomorphine, 19
 circling behavior, 231
 drug interaction, 19, 231
 extinction, 867
 receptor affinities, 867
 self-stimulation, 867
 stereotypy, 19
 striatum, 19, 231
 Dopamine metabolism, 427
 seizures, post decapitation
 spinal cord
 Dopamine metabolites, 905
 cerebroventricular perfusates
 5-hydroxytryptamine metabolite
 Dopamine receptor system, 153
 apomorphine
 locomotor activity
 stereotypy
 strain differences
 Dopamine receptors
 cholinergic drug interaction, 63
 cyclic AMP, 535
 drug interaction, 535
 genotypic variation, 63
 hippocampus, 63
 lesions, nigro-striatal pathway, 535
 neuroleptics, 63
 pharmacokinetics, 535
 prefrontal cortex, 211
 rotation behavior, 535
 self-stimulation, 211
 spontaneous motor activity, 211
 striatum, 63
 Dopaminergic activity, 49
 apomorphine
 lesions, 6-hydroxydopamine
 lesions, substantia nigra

 naloxone
 L-prolyl-L-leucyl-glycinamide
 stereotypy
 Dopaminergic mechanisms, 157
 amphetamine
 conditioned avoidance
 LHRH
 spontaneous motor activity
 Dopaminergic supersensitivity, 199
 apomorphine
 GABA receptor binding
 haloperidol
 muscimol
 stereotypy
 Dopaminergic transmission, 567
 ethanol
 fetal alcohol syndrome
 Drinking
 adrenalectomy, 373
 auditory stimulus, 53
 avoidance, 1041
 blackbirds, 857
 body weight, 821
 catecholamines, 373
 copper deficiency, 1041
 diet deficiency, 115
 dipsogenesis, serotonin-induced, 519
 discrimination, 857
 drug interaction, 519
 eating, 115, 235
 energy balance, 571
 essential fatty acids, 115
 ethanol, 571, 1045
 ethanol dependence, 53
 ethanol metabolism, 115
 ethanol tolerance, 115
 5-hydroxytryptophan, 519
 lever press, 843
 locomotor activity, 821
 meal size, 235
 metabolism, 571
 minimum-interreinforcer interval, 843
 muricide, 1041
 nalmefene, 235
 naloxone, 1045
 open field, 1041
 opioid antagonists, 235
 opiates, 505
 organ weight, 821
 renin-angiotensin, 373
 schedule-induced polydipsia, 53, 505
 self-administration, ethanol, 843
 stimulation, electrical, 571
 thermoregulation, 857
 withdrawal, 53
 Drug
 acarbose, 71, 85
 aceperone, 19
 acetazolamide, 625
 acetylcholine, 813
 acrylamide, 635
 adenine, 23
 adenosine, 23, 535
 adenosine monophosphate, 23
 alcohol, 5, 683
 N-allylnormetazocine, 737
 N-(4-hydroxyphenacyl)-4-aminoclonidine
 879
 amitriptyline, 751
 amitryptaline, 415
 ammonium chloride, 553

- amphetamine, 57, 187, 231, 263, 327, 487, 497, 593, 725, 831
 d-amphetamine, 5, 145, 157, 205, 219, 635
 d-amphetamine sulfate, 33, 137
 apomorphine, 1, 19, 49, 57, 63, 137, 153, 169, 199, 211, 219, 327, 463, 535, 807, 917, 969
 atropine, 477, 483, 577, 719, 963
 atropine methylbromide, 359
 baclofen, 281
 benactyzine, 963
 benperidol, 867
 benzodiazepine, 625
 bicuculline, 335
 bremazocine, 863
 bromocriptine, 211
 buspirone, 97
 butaclamol, 477
 caffeine, 5, 339, 535, 725
 capsaicin, 857
 carbachol, 813
 carbamylcholine, 103
 3-carbomethoxy- β -carboline, 951
 l-cathinone, 145
 chlordiazepoxide, 5, 39, 275, 415, 625, 787, 957
 chlorimipramine, 193
 chlorpromazine, 5, 321, 755, 759, 831, 869
 β -chlornaltrexamine, 939
 cimeditine, 483
 cinanserin, 519
 clonazepam, 549, 625
 clonidine, 27, 117, 447, 519, 879, 891, 957
 clorgyline, 263
 clozapine, 759, 831, 867
 cocaine, 5, 145, 453, 887, 993
 CGS 8216, 549
 cyclazocine, 701
 cycloheximide, 733
 2-deoxyguanosine, 23
 2-deoxyinosine, 23
 desipramine, 121, 415, 419, 831, 973
 desmethylimipramine, 743, 751
 dexamethasone, 251, 599
 dextrophan, 609
 diazepam, 5, 23, 369, 715, 755, 899, 951, 957
 dibutyryl cyclic adenosine monophosphate, 79
 dibutyryl cyclic guanosine monophosphate, 79
 diethylstilbestrol, 617
 5,7-dihydroxytryptamine, 225, 905, 973
 diprenorphine, 505
 L-DOPA, 263
 dopamine, 63, 121, 231, 463, 593, 693, 743, 781, 807, 867
 DSP4, 121
 EGTA, 477
 EHNA, 535
 estradiol benzoate, 351
 ethanol, 53, 115, 131, 275, 441, 513, 567, 571, 583, 645, 683, 687, 755, 843, 849, 1045
 ethylene glycol-bis-(β -amino-ethyl ether), 231
 ethylketazocine, 863
 ethylketocyclazocine, 771
 fentanyl, 863
 fluoxetine, 193
 β -funtrexamine, 939
 GABA, 951
 glycine, 245
 haloperidol, 63, 199, 313, 577, 759, 831, 867
 halothane, 231
 harmaline, 527
 heroin, 701
 hexamethonium, 359
 histamine, 587, 925
 homotaurine, 625
 hydrocortisone, 431
 6-hydroxydopamine, 13, 49, 137, 359, 743, 905, 973
 5-hydroxytryptamine, 873
 5-hydroxytryptophan, 519
 imipramine, 415, 751
 indoleamine, 527
 indomethacin, 131
 inosine, 23
 isoproterenol, 519, 831
 isotonic glucose, 929
 kainic acid, 169
 ketocyclazocine, 711
 LAAM, 701
 lergotrile, 211
 leucine, 791
 levonantradol, 149
 lithium chloride, 257
 malathion, 1031
 maprotiline, 719
 mecamylamine, 813
 5-MeODMT, 873
 metergoline, 663, 873
 methadone, 701
 7-methyl-inosine, 23
 methylphenidate, 725
 methysergide, 193, 477, 519, 549
 metoclopramide, 867
 metoprolol, 313
 metrazol, 625
 mianserin, 873
 morphine, 5, 57, 163, 301, 327, 397, 427, 435, 561, 609, 679, 711, 863, 873, 879, 887, 921, 939
 morphine sulphate, 269, 777
 muscimol, 199, 231, 281, 335, 663
 nalmefene, 235
 naloxazone, 939
 naloxone, 49, 163, 397, 403, 423, 505, 609, 671, 679, 795, 827, 863, 873, 879, 921, 1045
 naltrexone, 397, 505
 nicotine, 5, 145, 291, 553, 559, 605, 887, 989, 993, 1005, 1011, 1021, 1027
 nisoxetine, 205
 noradrenaline, 719
 l-noradrenaline, 693
 norepinephrine, 313, 593, 733, 743, 891
 6-OHDA, 883
 oxazepam, 97
 oxaprotiline, 719
 oxcarbazepine, 369
 oxotremorine, 103
 pargyline, 263, 321
 pentazocine, 911
 pentobarbital, 97, 145, 205, 415, 755
 pentylenetetrazol, 587, 957
 phenacyclidine, 365
 phenobarbital, 5
 phenoxybenzamine, 19, 27, 891
 phenolamine, 27, 359, 477, 831
 phenylephrine, 27
 phenylethylamine, 263
 N⁶-phenylisopropyl-adenosine, 535
 8-phenyl-theophylline, 535
 phenytoin, 415, 625
 physostigmine, 813, 963
 picrotoxin, 231, 625
 pilocarpine, 231
 pimozide, 211, 759, 867
 pindolol, 313
 pranlol, 519
 probenecid, 543
 procaine, 145
 promazine, 867
 promethazine, 719
 propranolol, 27, 313, 419, 733, 831
 prostaglandin E₂, 231
 quipazine, 419, 663
 RDS-127, 781
 reserpine, 321, 463
 rolipram, 535
 RO 5-3663, 39
 RO 15-1788, 39, 549, 895
 salbutamol, 27
 scopolamine, 231, 725, 813
 SC-19220, 131
 serine, 245
 serotonin, 415, 519, 663
 sodium barbital, 839
 sodium bicarbonate, 553
 sodium chloride, 335
 spiperone, 169
 spiroperidol, 211, 807, 867
 sulpiride, 63, 211
 testosterone propionate, 617
 N,N'-tetraacetic acid, 231
 THC, 755
 theophylline, 535
 thioridazine, 759, 867
 THIP, 281, 369
 toluene, 899, 933
 tripeptenamine, 821, 911
 tritiated methadone, 1051
 L-tryptophan, 905
 tyrosine hydroxylase, 807
 valproate, 369, 625
 xylazine, 345, 879
 yohimbine, 27, 879
Drug dependence, 385
 adjunctive behavior
 drugs and culture
 drugs and violence
Drug discrimination
 apomorphine sensitivity, 1
 operant learning, 1
 tricyclic anti-depressants, 751
Drug interactions
 adrenal cortex, 321
 α -adrenolytics, 19
 amphetamine, 725
 amygdaloid complex, 759
 analgesia, 911
 antipsychotic drugs, 759
 anxiolytic action, 899
 apomorphine, 19
 benzodiazepines, 957
 biogenic amines, 321
 caffeine, 725
 catalepsy, 759
 catecholamines, 831, 973
 chlordiazepoxide, 275

- circling behavior, 231
 clonazepam, 549
 conflict behavior, 899
 convulsions, 973
 cyclic AMP, 535
 diazepam, 899
 dipsogenesis, serotonin-induced, 519
 discrimination, 415
 dopamine, 19, 231
 dopamine receptors, 535
 drinking, 519
 DSP4, 121
 eating, 121
 electroshock, 973
 ethanol preference, 275
 fixed interval, 553
 gastric ulcers, 831
 head twitches, 549
 histamine, 587
 5-hydroxytryptophan, 519
 lesions, hypothalamic, 831
 lesions, nigro-striatal pathway, 535
 locomotor activity, 693
 locus coeruleus-noradrenaline system, 121
 methylphenidate, 725
 monoamine oxidase, 263
 morphine, 873
 motor activity, 121, 263
 muscle relaxation, 549
 nicotine, 553
 nociception, 873
 nonpharmacological influence, 755
 open field, 693
 operant behavior, 415
 oxytocin, 587
 pentazocine, 911
 pentylenetetrazol, 587
 pharmacokinetics, 535
 pituitary-adrenal axis, 321
 play soliciting, juvenile rats, 725
 propranolol, 419
 psychoactive drugs, 755
 quipazine, 419
 rotation behavior, 535, 813
 seizures, 957
 serotonin antagonists, 873
 shock-elicited fighting, 419
 squirrel monkeys, 553
 stereotypy, 19
 stimulus shock termination, 553
 striatum, 19, 231
 superior colliculus, 813
 T maze, 121
 toluene exposure, 899
 tripeptenamine, 911
 vasopressin, 587
 wet dog shakes, 813
- Drug reinforcement**, 993
 baboons
 nicotine
 self-administration
- Drugs and culture**, 385
 adjunctive behavior
 drug dependence
 drugs and violence
- Drugs and violence**, 385
 adjunctive behavior
 drugs and culture
 drug dependence
- DSP4, 121
 drug interaction
- eating
 locus coeruleus-nonadrenaline system
 motor activity
 T maze
- Eating**
 acarbose, 71, 85
 adenosine, 23
 adrenalectomy, 403
 N-allylnormetazocine, 737
 appetite, 23
 body weight, 71
 butorphanol, 577
 butorphanol tartrate, 403
 carbohydrate absorption, 85
 chickens, 929
 conditioned taste aversion, 771
 CRF, 771
 diet composition, 71
 diet deficiency, 115
 drinking, 115, 235
 drug interaction, 121
 DSP4, 121
 essential fatty acids, 115
 ethanol, 1045
 ethanol metabolism, 115
 ethanol tolerance, 115
 ethylketocyclazocine, 403
 food deprivation, 929
 glucose, 929
 gonadal steroids, 617
 lesions, hypothalamus, 945
 locus coeruleus-noradrenaline system, 121
 meal size, 235
 motor activity, 121
 nalmefene, 235
 naloxone, 1045
 norepinephrine, 945
 obesity, 85, 617
 obesity, dietary, 71
 opiates, 403, 577
 opiate receptors, 737
 opioid antagonists, 235
 purines, 23
 sauvagine, 771
 SKF-10,047, 737
 strain differences, 85
 T maze, 121
 white leghorn cocks, 617
- EEG, 177
 clonidine
 lesions, electrolytic
 lesions, raphe nuclei
- Electric shock**, 1027
 behavioral consequences
 nicotine
 pharmacology
- Electroshock**, 973
 catecholamines
 convulsions
 drug interaction
- Emesis**, 827
 cats
 motion sickness
 naloxone
- EMG activity**, 715
 diazepam
 power spectral analysis
 sleep-wake cycle
- Endogenous opioids**, 795
 LHRH
 lordosis
 stress, shock induced
- Endorphins**, 671
 locomotor activity
- Energy balance**, 571
 drinking
 ethanol
 metabolism
 stimulation, electrical
- Epilepsy**, 839
 audiogenicity
 barbiturate withdrawal
 convulsions
- Escape**, 301
 mesencephalic central gray
 microinjections
 morphine
 nociceptive stimuli
 stimulation, electrical
- Escape latency**, 423
 avoidance
 intertrial response
 naloxone
 opioid receptors
- Essential fatty acids**, 115
 diet deficiency
 drinking
 eating
 ethanol metabolism
 ethanol tolerance
- Estradiol stereoisomers**, 801
 body weight
 catalepsy
 locomotor activity
- Estrous cycle**, 583
 ethanol
 ovarian function
- Ethanol**
 age differences, 687
 agonistic behavior, 645
 alcohol, 683
 aversion, 441
 buprenorphine, 985
 dopaminergic transmission, 567
 drinking, 571, 1045
 eating, 1045
 energy balance, 571
 estrous cycle, 583
 ethological analysis, 645
 fetal alcohol syndrome, 567
 hypnosis, 687
 hypothermia, 687
 jump test, 683
 metabolism, 571
 naloxone, 1045
 ovarian function, 583
 place conditioning, 441
 schedule induced self injection, 985
 selective breeding, 683
 social interactions, 645
 stimulation, electrical, 571
 strain differences, 645
 tolerance, 683
- Ethanol dependence**, 53
 auditory stimulus
 drinking
 polydipsia, schedule-induced withdrawal
- Ethanol metabolism**, 115
 diet deficiency

drinking
eating
essential fatty acids
ethanol tolerance
Ethanol preference
chlor diazepoxide, 275
drug interaction, 275
toluene preference, 933
Ethanol tolerance, 115
diet deficiency
drinking
eating
essential fatty acids
ethanol metabolism
Ethological analysis, 645
agonistic behavior
ethanol
social interactions
strain differences
Ethylketocyclazocene
adrenalectomy, 403
butorphanol tartrate, 403
eating, 403
ketocyclazocene, 711
opiates, 403
opioid agonists, 711
physical dependence, 711
self-administration, 711
Exploration
amphetamine, 487, 497
benzodiazepine antagonist, 895
chlorimipramine, 193
chronic administration, 193
locomotor activity, 193
myoclonus, 193
perseveration, 487, 497
radial maze, 487, 497
resting time, 193
Ro15-1788, 895
serotonin, 193
Extinction
amphetamine, 593
avoidance, 593
dopamine, 867
receptor affinities, 867
self-stimulation, 867
Familiar cues, 187
amphetamine
hyperactivity
preweanling treatment
Feminization, 777
morphine sulfate
neuralestrogen receptors
prenatal exposure, female rats
Fetal alcohol syndrome, 567
dopaminergic transmission
ethanol
Fixed-interval schedule, 555
drug interaction
nicotine
squirrel monkeys
stimulus shock termination
Fixed ratio schedule
aggression, 5
amphetamine, 205
attack, 5
beagle dogs, 1011
biting, 5
discrimination, 205
lever-press, 5
nicotine, 1011
nisoxetine, 205
response-independent shock, 5
squirrel monkeys, 5, 1011
Food deprivation
body weight, 453
chickens, 929
cocaine, 453
eating, 929
glucose, 929
self-administration, 453
Foot shock, 251
activity
pituitary-adrenal axis
stress, heat induced
Fucokinase, 43
brightness discrimination
fucosyltransferase
glycoprotein synthesis
hippocampus
L-fucose
L-Fucose, 43
brightness discrimination
fucokinase
fucosyltransferase
glycoprotein synthesis
hippocampus
L-fucose
Fucosyltransferase, 43
brightness discrimination
fucokinase
glycoprotein synthesis
hippocampus
L-fucose
GABA
anticonvulsants, 369
anxiety, 39
barbiturates, 625
benzodiazepine antagonists, 39
convulsants, 39
depression, 369
human studies, 369
locomotor activity, 625
RO 5-3663, 39
RO 15-1788, 39
self stimulation, 625
GABA agonist, 281
stimulation, tactile
superior colliculus
GABA receptor binding, 199
apomorphine
dopaminergic supersensitivity
haloperidol
muscimol
stereotypy
Gastric pathology, 483
cingulate cortex
mucosal erosions
stimulation, electrical
Gastric peptides, 969
apomorphine
caerulein
dibutyryl-cAMP
Gastric secretion, 359
adrenergic blockers
aggressive behavior
anticholinergic drugs
stress ulcers, drug induced
Gastric ulcers
activity, stress paradigm, 393
catecholamines, 831
drug interactions, 831
histamine, 925
lesions, hypothalamic, 831
noradrenaline turnover, 393
somatostatin, 925
stimulation, vagal, 925
wheel running, 393
Genetic factors, 131
alcohol hypnosis
central nervous system depression
prostaglandin synthesis
selective breeding
sex differences
Genital grooming, 917
hypomotility
locomotor activity
penile erection
Genotypic variation, 63
cholinergic drug interaction
dopamine receptors
hippocampus
neuroleptics
striatum
Glucose, 929
chickens
eating
food deprivation
Glycine, 245
animal model
catalepsy
psychosis
serine
Glycoprotein synthesis, 43
brightness discrimination
fucokinase
fucosyltransferase
hippocampus
L-fucose
Gonadal steroids, 617
eating
obesity
white leghorn cocks
Group housing, 679
analgesia
isolated housing
social isolation
Guinea pigs, 527
acoustic startle reflex
harmaline
pinna reflex
sensory motor reactivity
vertex potentials
Haloperidol, 199
apomorphine
dopaminergic supersensitivity
GABA receptor binding
muscimol
stereotypy
Hamsters, 435
locomotor activity
morphine
sensitization
tolerance
Harmaline, 527
acoustic startle reflex
guinea pigs
pinna reflex
sensory motor reactivity
vertex potentials

- Head twitches**, 549
 clonazepam
 drug interaction
 muscle relaxation
- Heart rate**, 365
 blood pressure
 phencyclidine
 plasma prolactin
- Heart rate conditioning**, 379
 conditioned fear
 opiates
 rabbits
- Heat injury**, 1031
 cholinesterase inhibition
 hyperthermic exhaustion
 malathion
- Hippocampus**
 brightness discrimination, 43
 cholinergic drug interaction, 63
 dopamine receptors, 63
 fucokinase, 43
 L-fucose, 43
 fucosyltransferase, 43
 genotypic variation, 63
 glycoprotein synthesis, 43
 neuroleptics, 63
 striatum, 63
- Histamine**
 drug interaction, 587
 gastric ulcer, 925
 oxytocin, 587
 pentylenetetrazol, 587
 somatostatin, 925
 stimulation, vagal, 925
 vasopressin, 587
- Histological sectioning**, 1049
 staining
- Histopathology**, 635
 acrylamide
 locomotor activity
- Honeybees**, 921
 morphine
 naloxone
- Hormone**
 corticosterone, 251, 321
 insulin, 85
 LHRH, 157
 noradrenaline, 27
 pregnant mares serum gonadotrophin, 269
 progesterone, 269
 prostaglandin, 131
- Human studies**
 anticonvulsants, 369
 auditory threshold, 431
 avoidance, 291, 1021
 cigarette smoking, 291
 depression, 369
 GABA, 369
 hydrocortisone, 431
 neuroendocrine, 431
 nicotine, 887, 989, 1021
 nicotine dependence, 291
 perception, 431
 plasma cotinine, 291
 reinforcement schedule, 989, 1021
 self-administration, 989, 1021
- Hydralazine**, 891
 acoustic startle
 blood pressure
- Hydrocortisone**, 431
 auditory threshold
- human studies**
 neuroendocrine
 perception
- 5-Hydroxytryptamine metabolite**, 905
 cerebroventricular perfusates
 dopamine metabolites
- 5-Hydroxytryptophan**, 519
 dipsogenesis, serotonin-induced
 drinking
 drug interaction
- Hyperactivity**
 amphetamine, 137, 187
 apomorphine, 137
 familiar cues, 187
 immunoreactivity, 979
 lesions, electrolytic, 137
 lesions, nucleus accumbens, 137
 locomotor activity, 137, 979
 preweanling treatment, 187
 radiation exposure, 979
- Hypersensitivity**, 807
 hypophsectomy
 hyposensitivity
- Hyperthermia**, 163
 chickens
 isolation housing
 opiates
 social isolation
- Hyperthermic exhaustion**, 1031
 cholinesterase inhibition
 heat injury
 malathion
- Hypertonic sodium chloride**, 335
 ADH release
 muscimol
 route of administration
- Hypnosis**, 687
 age differences
 ethanol
 hypothermia
- Hypomotility**, 917
 genital grooming
 locomotor activity
 penile erection
- Hypophsectomy**, 807
 hypersensitivity
 hyposensitivity
- Hyposensitivity**, 807
 hypersensitivity
 hypophsectomy
- Hypothermia**
 age differences, 687
 analgesia, 447
 clonidine, 447
 cold water swim, 447
 ethanol, 687
 hypnosis, 687
 lesions, locus coeruleus, 447
 lithium chloride, 257
 pharmacodynamics, 257
 strain differences, 257
 tail flick, 447
 toxicity, 257
- Immobilization**, 543
 MHPG-SO₄
 noradrenaline release
- Immunoglobulin E (IgE)**, 883
 aggression
 stress
- Immunoreactivity**, 979
 hyperactivity
 locomotor activity
 radiation exposure
- Inbred mice**, 939
 analgesia
 locomotor activity
- Intertrial response**, 423
 avoidance
 escape latency
 naloxone
 opioid receptors
- Intracranial stimulation**, 149
 abuse liability
 levonantradol
 medial forebrain bundle
 reward thresholds
- Irritability**, 663
 aggression
 muricide
 muscimol
- Isolation housing**
 analgesia, 679
 chickens, 163
 group housing, 679
 hyperthermia, 163
 opiates, 163
 social isolation, 163, 679
- Jump test**, 683
 alcohol
 ethanol
 selective breeding
 tolerance
- Ketocyclazocene**, 711
 ethylketocyclazocene
 opioid agonists
 physical dependence
 self-administration
- Kindled amygdaloid seizures**, 339
 caffeine
 seizure threshold
- Kindling**, 345
 alpha₂ adrenergic agonists
 nervous system
 seizures, drug induced
- Lesions, central noradrenergic bundle**, 407
 brain catecholamines
 conditioned emotional response
 open field
 startle response
- Lesions, electrolytic**
 amphetamine, 137
 apomorphine, 137
 clonidine, 177
 EEG, 177
 hyperactivity, 137
 lesions, 6-hydroxydopamine, 137
 lesions, nucleus accumbens, 137
 lesions, raphe nuclei, 177
 locomotor activity, 137
- Lesions, globus pallidus**, 169
 adipisia
 akinesia
 aphagia
 biphasic effects
 catalepsy, spiperone-induced

- muscular rigidity
- ptosis
- Lesions, 6-hydroxydopamine**
 - amphetamine, 137
 - apomorphine, 49, 137
 - automated rotation measurement, 13
 - circling behavior, 13
 - dopaminergic activity, 49
 - hyperactivity, 137
 - lesions, electrolytic, 137
 - lesions, nucleus accumbens, 137
 - lesions, striatum, 13
 - lesions, substantia nigra, 49
 - locomotor activity, 137
 - naloxone, 49
 - L-prolyl-L-leucyl-glycinamide, 49
 - stereotypy, 49
 - striatal dopaminergic system, 13
- Lesions, hypothalamic**
 - catecholamines, 831
 - drug interactions, 831
 - eating, 945
 - gastric ulcers, 831
 - norepinephrine, 945
- Lesions, kainic acid, 309**
 - Alzheimer disease
 - choline acetyltransferase
 - lesions, ventrolateral globus pallidus
 - memory
 - passive avoidance
- Lesions, locus coeruleus, 447**
 - analgesia
 - clonidine
 - cold water swim
 - hypothermia
 - tail flick
- Lesions, nigro-striatal pathway, 535**
 - cyclic AMP
 - dopamine receptors
 - drug interactions
 - pharmacokinetics
 - rotation behavior
- Lesions, nucleus accumbens, 137**
 - amphetamine
 - apomorphine
 - hyperactivity
 - lesions, electrolytic
 - lesions, 6-hydroxydopamine
 - locomotor activity
- Lesions, raphe nuclei, 177**
 - clonidine
 - EEG
 - lesions, electrolytic
- Lesions, striatum, 13**
 - automated rotation measurement
 - circling behavior
 - lesions, 6-hydroxydopamine
 - striatal dopaminergic system
- Lesions, substantia nigra, 49**
 - apomorphine
 - dopaminergic activity
 - lesions, 6-hydroxydopamine
 - naloxone
 - L-prolyl-L-leucyl-glycinamide
 - stereotypy
- Lesions, ventrolateral globus pallidus, 309**
 - Alzheimer disease
 - choline acetyltransferase
 - lesions, kainic acid
 - memory
 - passive avoidance
- Leucine, 791**
 - aminopeptidase
 - analgesia
 - neurotensin
- Lever press**
 - acquisition, repeat, 701
 - aggression, 5
 - attack, 5
 - avoidance, 599
 - biting, 5
 - dexamethasone, 599
 - drinking, 843
 - fixed ratio schedule, 5
 - minimum-interreinforcer interval, 843
 - monkeys, 701
 - multiple schedule, 701
 - pituitary adrenocortical system, 599
 - response-independent shock, 5
 - self-administration, ethanol, 843
 - sex differences, 599
 - squirrel monkeys, 5
- Levonantradol, 149**
 - abuse liability
 - intracranial stimulation
 - medial forebrain bundle
 - reward thresholds
- LHRH**
 - amphetamine, 157
 - conditioned avoidance, 157
 - dopaminergic mechanisms, 157
 - endogenous opioids, 795
 - lordosis, 795
 - spontaneous motor activity, 157
 - stress, shock induced, 795
- Lithium chloride, 257**
 - hypothermia
 - pharmacodynamics
 - strain differences
 - toxicity
- Locomotor activity**
 - acrylamide, 635
 - adrenergic agents, 27
 - amphetamine, 137
 - analgesia, 939
 - apomorphine, 137
 - barbiturates, 625
 - benzodiazepine antagonist, 895
 - biochemical effects, 27
 - body weight, 801, 821
 - catalepsy, 801
 - chlorimipramine, 193
 - chronic administration, 193
 - dopamine receptor, 153
 - drinking, 821
 - drug interaction, 693
 - endorphins, 671
 - estradiol stereoisomers, 801
 - exploratory behavior, 193, 895
 - GABA, 625
 - genital grooming, 917
 - hamsters, 435
 - histopathology, 635
 - hyperactivity, 137, 979
 - hypomotility, 917
 - immunoreactivity, 979
 - inbred mice, 939
 - lesions, electrolytic, 137
 - lesions, 6-hydroxydopamine, 137
 - lesions, nucleus accumbens, 137
 - median raphe nucleus, 27
 - microinjections, 27
 - morphine, 435
- myoclonus, 193**
 - open field, 27, 693
 - organ weight, 821
 - penile erection, 917
 - radiation exposure, 979
 - RDS-127, 781
 - resting time, 193
 - RO15-1788, 895
 - self stimulation, 625
 - seminal emission, 781
 - sensitization, 435
 - serotonin, 193
 - serotonin metabolism, 27
 - sexual behavior, male rats, 781
 - stereotypy, 153
 - strain differences, 153
 - tolerance, 435
- Locus coeruleus-noradrenaline system, 121**
 - drug interaction
 - DSP4
 - eating
 - motor activity
 - T maze
- Lordosis**
 - endogenous opioids, 795
 - LHRH, 795
 - raphe nuclei, 351
 - stimulation, electrical, 351
 - stress, shock induced, 795
- Malathion, 1031**
 - cholinesterase inhibition
 - heat injury
 - hyperthermic exhaustion
- Malnutrition, alcohol induced, 513**
 - alcohol
 - prenatal exposure
- Maprotiline, 719**
 - chronic administration
 - oxaprotiline
 - shock induced fighting
- Maternal behavior, rats, 609**
 - open field
 - opioids
- Meal size, 235**
 - drinking
 - eating
 - nalmefene
 - opioid antagonists
- Medial forebrain bundle, 149**
 - abuse liability
 - intracranial stimulation
 - levonantradol
 - reward thresholds
- Median raphe nucleus, 27**
 - adrenergic agents
 - biochemical effects
 - locomotor activity
 - microinjections
 - open field
 - serotonin metabolism
- Memory, 309**
 - Alzheimer disease
 - choline acetyltransferase
 - lesions, kainic acid
 - lesions, ventrolateral globus pallidus
 - passive avoidance
- Memory mechanisms, 733**
 - amnesia
 - aversion

- Mesencephalic central gray, 301
 escape
 microinjections
 morphine
 nociceptive stimuli
 stimulation, electrical
- Metabolism**, 571
 drinking
 energy balance
 ethanol
 stimulation, electrical
- Method**
 electron microscopy, 635
 ethological analysis, 645
 hot plate test, 251, 561
 light microscopy, 635
 power spectral analysis, 715
 rapid brain histology, 1049
- Methylphenidate**, 725
 amphetamine
 caffeine
 drug interaction
 play soliciting, juvenile rats
- MHPG-SO₄**
 immobilization, 543
 noradrenaline activity, 287
 noradrenaline release, 543
 restraint, 287
 stress, 287
- Mice**, 863
 opioid receptor agonists
 urinary output
- Microcomputer**
 analysis, 729
 behavioral data acquisition, 729
 computerized animal observation, 765
 videodigitizer, 765
- Microinjections**
 adrenergic agents, 27
 biochemical effects, 27
 escape, 301
 locomotor activity, 27
 median raphe nucleus, 27
 mesencephalic central gray, 301
 morphine, 301
 nociceptive stimuli, 301
 open field, 27
 serotonin metabolism, 27
 stimulation, electrical, 301
- Minimum-interreinforcer interval**, 843
 drinking
 lever press
 self-administration, ethanol
- Monkeys**, 701
 acquisition, repeat
 lever press
 multiple schedule
- Monoamine oxidase**, 263
 drug interactions
 motor activity
- Morphine**
 amphetamine, 57
 apomorphine, 57
 conditioned response, 327
 drug interaction, 873
 escape, 301
 hamsters, 435
 honeybees, 921
 locomotor activity, 435
 mesencephalic central gray, 301
 microinjections, 301
 naloxone, 921
 nociception, 873
 nociceptive stimuli, 301
 opiate antagonists, 397
 retention, 397
 rotation sensing, 57
 sensitization, 435
 serotonin antagonists, 873
 spatial memory, 397
 stereotypy, 57
 stimulation, electrical, 301
 thermoregulation, 327
 tolerance, 327, 435
- Morphine sulfate**
 feminization, 777
 neurelastrogen receptors, 777
 ovulation, immature rat, 269
 pregnant mares serum gonadotrophin pretreatment, 269
 prenatal exposure, female rats, 777
 progesterone release, 269
- Morphine tolerance**, 561
 ACTH 4–10
 arginine vasopressin
 retention
- Motion sickness**, 827
 cats
 emesis
 naloxone
- Motor activity**
 conditioned taste aversion, 471
 deuterium substitution, 471
 drug interactions, 121, 263
 DSP4, 121
 eating, 121
 locus coeruleus-noradrenaline system, 121
 monoamine oxidase, 263
 β-phenylethylamine, 471
 T maze, 121
- Mucosal erosions**, 483
 cingulate cortex
 gastric pathology
 stimulation, electrical
- Multiple schedule**, 701
 acquisition, repeat
 lever press
 monkeys
- Muricide**
 aggression, 663
 avoidance, 1041
 copper deficiency, 1041
 drinking, 1041
 irritability, 663
 muscimol, 663
 open field, 1041
- Muscarinic receptors**, 103
 body temperature
 choline uptake
 chronic administration
 oxotremorine
 rotarod performance
 tolerance
- Muscimol**
 ADH release, 335
 aggression, 663
 apomorphine, 199
 dopaminergic supersensitivity, 199
 GABA receptor binding, 199
 haloperidol, 199
 hypertonic sodium chloride, 335
 irritability, 663
 muricide, 663
- route of administration**, 335
stereotypy, 199
- Muscle relaxation**, 549
 clonazepam
 drug interaction
 head twitches
- Muscle tone**, 463
 corpus striatum
 nucleus accumbens
 reserpine rigidity
- Muscular rigidity**, 169
 adipsia
 akinesia
 aphagia
 biphasic effects
 catalepsy, spiperone-induced lesions, globus pallidus ptosis
- Myoclonus**, 193
 chlorimipramine
 chronic administration
 exploratory behavior
 locomotor activity
 resting time
 serotonin
- Nalmefene**, 235
 drinking
 eating
 meal size
 opioid antagonists
- Naloxone**
 apomorphine, 49
 avoidance, 423
 cats, 827
 dopaminergic activity, 49
 drinking, 1045
 eating, 1045
 emesis, 827
 escape latency, 423
 ethanol, 1045
 honeybees, 921
 intertrial response, 423
 lesions, 6-hydroxydopamine, 49
 lesions, substantia nigra, 49
 morphine, 921
 motion sickness, 827
 opioid receptors, 423
 L-prolyl-L-leucyl-glycinamide, 49
 stereotypy, 49
- Neonatal depletion**, 743
 avoidance
 catecholamines
- Nervous system**, 345
 alpha₂ adrenergic agonists
 kindling
 seizures, drug induced
- Neurelastrogen receptors**, 777
 feminization
 morphine sulfate
 prenatal exposure, female rats
- Neurobehavioral effects**, 1051
 opiates
 prenatal administration
 tritiated methadone
- Neuroendocrine**, 431
 auditory threshold
 human studies
 hydrocortisone
 perception

- Neurohormones**, 1037
 cerebrospinal fluid
 delta sleep-inducing peptide
 neuropeptides
Neuroleptics, 63
 cholinergic drug interaction
 dopamine receptors
 genotypic variation
 hippocampus
 striatum
Neuropeptides, 1037
 cerebrospinal fluid
 delta sleep-inducing peptide
 neurohormones
Neurotensin
 aminopeptidases, 791
 analgesia, 791
 leucine, 791
 thermoregulation, 477
Nicotine
 avoidance, 1021
 baboons, 993
 beagle dogs, 1011
 behavioral consequences, 1027
 drug interaction, 553
 drug reinforcement, 993
 electric shock, 1027
 fixed interval schedule, 553
 fixed ratio schedule, 1011
 human studies, 989, 1021
 pharmacology, 1027
 plasma corticosterone, 559
 reinforcement schedule, 989, 1021
 schedule-induced behavior, 1005
 self-administration, 989, 993, 1005,
 1021
 squirrel monkeys, 553, 1011
 stimulus shock termination, 553
 Syrian hamsters, 605
 taste, 605
 thyroid hormones, 559
 tobacco, 605
 Nicotine dependence, 291
 cigarette smoking
 human studies
 plasma cotinine
Nisoxetine, 205
 amphetamine
 discrimination
 fixed ratio schedule
Nociception, 873
 drug interaction
 morphine
 serotonin antagonists
Nociceptive stimuli, 301
 escape
 mesencephalic central gray
 microinjections
 morphine
 stimulation, electrical
Nociceptive threshold, 79
 analgesia
 antinociception
 caudal reticular formation
 cyclic nucleotides
 periaqueductal gray
Nonpharmacological influence, 755
 drug interaction
 psychoactive drugs
Noradrenaline activity, 287
 MHPG-SO₄
 restraint
 stress
Noradrenaline release, 543
 immobilization
 MHPG-SO₄
Noradrenaline turnover, 393
 activity, stress paradigm
 gastric ulcers
 wheel running
Norepinephrine, 945
 eating
 lesions, hypothalamus
Nucleus accumbens, 463
 corpus striatum
 muscle tone
 reserpine rigidity
Obesity
 acarbose, 85
 carbohydrate absorption, 85
 eating, 85, 617
 gonadal steroids, 617
 strain differences, 85
 white leghorn cocks, 617
Obesity, dietary, 71
 acarbose
 body weight
 diet composition
 eating
Open field
 adrenergic agents, 27
 avoidance, 1041
 biochemical effects, 27
 brain catecholamines, 407
 conditioned emotional response, 407
 copper deficiency, 1041
 drinking, 1041
 drug interaction, 693
 lesions, central noradrenergic bundle,
 407
 locomotor activity, 27, 693
 maternal behavior, rats, 609
 median raphe nucleus, 27
 microinjections, 27
 muricide, 1041
 opioids, 609
 serotonin metabolism, 27
 startle response, 407
Operant behavior
 chlordiazepoxide, 787
 discrimination, 415
 drug interaction, 415
 response force, 787
 whole brain extract, 241
Operant learning, 1
 apomorphine sensitivity
 drug discrimination
Opiate antagonists, 397
 morphine
 retention
 spatial memory
Opiate receptors, 737
 N-allylnormetazocine
 eating
 SKF-10,047
Opiates
 adrenalectomy, 403
 butorphanol, 577
 butorphanol tartrate, 403
 chickens, 163
 conditioned fear, 379
 drinking, 505
 eating, 403, 577
 ethylketocyclazocine, 403
 heart rate conditioning, 379
 hyperthermia, 163
 isolation housing, 163
 neurobehavioral effects, 1051
 prenatal administration, 1051
 rabbits, 379
 schedule-induced polydipsia, 505
 social isolation, 163
 tritiated methadone, 1051
Opioid agonists, 711
 ethylketocyclazocine
 ketocyclazocine
 physical dependence
 self-administration
Opioid antagonists, 235
 drinking
 eating
 meal size
 naloxene
Opioid receptor agonists, 863
 mice
 urinary output
Opioid receptors
 alpha-adrenoceptors, 879
 avoidance, 423
 escape latency, 423
 intertrial response, 423
 naloxone, 423
 writhing, 879
Opioids, 609
 maternal behavior, rats
 open field
Organ weight, 821
 body weight
 drinking
 locomotor activity
Ovarian function, 583
 estrous cycle
 ethanol
Ovulation, immature rat, 269
 morphine sulphate
 pregnant mares serum gonadotrophin
 pretreatment
 progesterone release
Oxaprotiline, 719
 chronic administration
 maprotiline
 shock induced fighting
Oxotremorine, 103
 body temperature
 choline uptake
 chronic administration
 muscarinic receptors
 rotarod performance
 tolerance
Oxytocin, 587
 drug interaction
 histamine
 pentylenetetrazol
 vasopressin
Passive avoidance
 active avoidance, 655
 Alzheimer disease, 309
 choline acetyltransferase, 309
 lesions, kainic acid, 309
 lesions, ventrolateral globus pallidus,
 309

- memory, 309
 retention, 655
 strain differences, 655
 substance P, 655
Penile erection, 917
 genital grooming
 hypomotility
 locomotor activity
Pentazocine, 911
 analgesia
 drug interaction
 tripeleannamine
Peptide
 ACTH, 251
 ACTH 4–10, 561
 arginine vasopressin, 561
 bombesin, 577
 caerulein, 969
 calcitonin, 577, 1037
 cholecystokinin, 577, 969
 corticotropin releasing factor (CRF), 771
 delta sleep-induced peptide, 1037
 endorphin, 235
 β -endorphin, 791, 979
 [des-tyrosine¹]- γ -endorphin, 671
 gastric-releasing peptide, 577
 glucagon, 577
 kyotorphin, 921
 leu-enkephalin, 791, 921
 LHRH, 795
 [D-Ala²]-met-enkephalinamide, 791
 met-enkephalin, 921
 methionine-enkephalinamide, 921
 [D-Ala]³methionine enkephaline-amide, 427
 neuropeptins, 477, 791, 1037
 oxytocin, 587
 L-prolyl-L-leucyl-glycinamide, 49
 sauvagine, 771
 somatostatin, 577, 925
 substance P, 655
 thyrotropin-releasing hormone, 577
 vasoactive intestinal peptide, 1037
 vasopressin, 587
Pentylenetetrazol, 587
 drug interaction
 histamine
 oxytocin
 vasopressin
Perception, 431
 auditory threshold
 human studies
 hydrocortisone
 neuroendocrine
Periaqueductal gray, 79
 analgesia
 antinociception
 caudal reticular formation
 cyclic nucleotides
 nociceptive threshold
Perseveration, 487, 497
 amphetamine
 exploration
 radial maze
Pharmacodynamics, 257
 hypothermia
 lithium chloride
 strain differences
 toxicity
Pharmacokinetics, 535
 cyclic AMP
- dopamine receptors
 drug interaction
 lesions, nigro-striatal pathway
 rotation behavior
Pharmacology, 1027
 behavioral consequences
 electric shock
 nicotine
Phencyclidine, 365
 blood pressure
 heart rate
 plasma prolactin
 β -Phenylethylamine, 471
 conditioned taste aversion
 deuterium substitution
 motor activity
Physical dependence, 711
 ethylketocyclazocene
 ketocyclazocene
 opioid agonists
 self-administration
Pinna reflex, 527
 acoustic startle reflex
 guinea pigs
 harmaline
 sensory motor reactivity
 vertex potentials
Pituitary-adrenal axis
 activity, 251
 adrenal cortex, 321
 biogenic amines, 321
 drug interactions, 321
 foot shock, 251
 stress, heat induced, 251
Pituitary adrenocortical system, 599
 avoidance
 dexamethasone
 lever press
 sex differences
Place conditioning, 441
 aversion
 ethanol
Plasma corticosterone, 559
 nicotine
 thyroid hormone
Plasma cotinine, 291
 cigarette smoking
 human studies
 nicotine dependence
Plasma prolactin, 365
 blood pressure
 heart rate
 phencyclidine
Play soliciting, juvenile rats, 725
 amphetamine
 caffeine
 drug interaction
 methylphenidate
Polydipsia, schedule-induced, 53
 auditory stimulus
 drinking
 ethanol dependence
 withdrawal
Post shock motor suppression, 457
 avoidance
 strain differences
 stress
Postsynaptic dopamine receptors, 219
 d-amphetamine
 apomorphine
 central amygdaloid nucleus
 tolerance
- Power spectral analysis, 715
 diazepam
 EMG activity
 sleep-wake cycle
Prefrontal cortex, 211
 dopamine receptors
 self-stimulation
 spontaneous motor activity
Pregnant mares serum gonadotrophin pretreatment, 269
 morphine sulphate
 ovulation, immature rat
 progesterone release
Prenatal administration, 1051
 neurobehavioral effects
 opiates
 tritiated methadone
Prenatal exposure, 513
 alcohol
 malnutrition, alcohol induced
Prenatal exposure, female rats, 777
 feminization
 morphine sulfate
 neurelasterogen receptors
Preweanling treatment, 187
 amphetamine
 familiar cues
 hyperactivity
Progesterone release, 269
 morphine sulphate
 ovulation, immature rat
 pregnant mares serum gonadotrophin pretreatment
L-Prolyl-L-leucyl-glycinamide, 49
 apomorphine
 dopaminergic activity
 lesions, 6-hydroxydopamine
 lesions, substantia nigra
 stereotypy
Propranolol, 419
 drug interaction
 quipazine
 shock-elicited fighting
Prostaglandin synthesis, 131
 alcohol hypnosis
 central nervous system depression
 genetic factors
 selective breeding
 sex differences
Psychoactive drugs, 755
 drug interaction
 nonpharmacological influence
Psychosis, 245
 animal model
 catalepsy
 glycine
 serine
Ptosis, 169
 adipisia
 akinesia
 aphagia
 biphasic effects
 catalepsy, spiperone-induced
 lesions, globus pallidus
 muscular rigidity
Punishment, 225
 anxiety
 punishment
 serotonin
Purines, 23
 adenosine

- appetite
- eating

- Quipazine, 419
 - drug interaction
 - propranolol
 - shock-elicited fighting

- Rabbits, 379
 - conditioned fear
 - heart rate conditioning
 - opiates
- Radial maze, 487, 497
 - amphetamine
 - exploration
 - perseveration
- Radiation exposure, 979
 - hyperactivity
 - immunoreactivity
 - locomotor activity
- Raphe nuclei, 351
 - lordosis
 - stimulation, electrical
- RDS-127, 781
 - locomotor activity
 - seminal emission
 - sexual behavior, male rats
- Receptor affinities, 867
 - dopamine
 - extinction
 - self-stimulation
- Reinforcement schedule
 - avoidance, 1021
 - human studies, 989, 1021
 - nicotine, 989, 1021
 - self-administration, 989, 1021
- Renin-angiotensin, 373
 - adrenalectomy
 - catecholamines
 - drinking
- Reserpine rigidity, 463
 - corpus striatum
 - muscle tone
 - nucleus accumbens
- Response force, 787
 - chloridiazepoxide
 - operant behavior
- Response-independent shock, 5
 - aggression
 - attack
 - biting
 - fixed ratio schedule
 - lever press
 - squirrel monkeys
- Resting time, 193
 - chlorimipramine
 - chronic administration
 - exploratory behavior
 - locomotor activity
 - myoclonus
 - serotonin
- Restraint, 287
 - MHPG-SO₄
 - noradrenaline activity
 - stress
- Retention
 - ACTH 4-10, 561
 - active avoidance, 655
 - arginine vasopressin, 561
 - morphine, 397

- morphine tolerance, 561
 - opiate antagonists, 397
 - passive avoidance, 655
 - spatial memory, 397
 - strain differences, 655
 - substance P, 655
- Reward thresholds, 149
 - abuse liability
 - intracranial stimulation
 - levonantradol
 - medial forebrain bundle
- Rhesus monkeys
 - cholinergic drugs, 963
 - cocaine, 145
 - delayed to-match-sample, 963
 - discriminative stimulus properties, 145
 - short-term memory, 963
- RO 5-3663, 39
 - anxiety
 - benzodiazepine antagonists
 - convulsants
 - GABA
 - RO 15-1788
- RO 15-1788
 - anxiety, 39
 - benzodiazepine antagonists, 39, 895
 - convulsants, 39
 - exploration, 895
 - GABA, 39
 - locomotor activity, 895
 - RO 5-3663, 39
- Rotarod performance, 103
 - body temperature
 - choline uptake
 - chronic administration
 - muscarinic receptors
 - oxotremorine
 - tolerance
- Rotation sensing device, 57
 - amphetamine
 - apomorphine
 - morphine
 - stereotypy
- Rotational behavior
 - cyclic AMP, 535
 - dopamine receptors, 535
 - drug interaction, 535, 813
 - lesions, nigro-striatal pathway, 535
 - pharmacokinetics, 535
 - superior colliculus, 813
 - wet dog shakes, 813
- Route of administration, 335
 - ADH release
 - hypertonic sodium chloride
 - muscimol

- Sauvagine, 771
 - conditioned taste aversion
 - CRF
 - eating
- Schedule-induced behavior, 1005
 - nicotine
 - self-administration
- Schedule-induced polydipsia, 505
 - drinking
 - opiates
- Schedule induced self injection, 985
 - buprenorphine
 - ethanol
- Seizure threshold, 339
 - caffeine

- kindled amygdaloid seizures
- Seizures, 957
 - benzodiazepines
 - drug interaction
- Seizures, drug induced, 345
 - alpha₂ adrenergic agonists
 - kindling
 - nervous system
- Seizures, post decapitation, 427
 - dopamine metabolism
 - spinal cord
- Selective breeding
 - alcohol, 683
 - alcohol hypnosis, 131
 - central nervous system depression, 131
 - ethanol, 683
 - genetic factors, 131
 - jump test, 683
 - prostaglandin synthesis, 131
 - sex differences, 131
 - tolerance, 683
- Self-administration
 - avoidance, 1021
 - baboons, 993
 - body weight, 453
 - cocaine, 453
 - drug reinforcement, 993
 - ethylketocyclazocene, 711
 - food deprivation, 453
 - human studies, 989, 1021
 - ketocyclazocene, 711
 - nicotine, 989, 993, 1005, 1021
 - opioid agonists, 711
 - physical dependence, 711
 - reinforcement schedule, 989, 1021
 - schedule-induced behavior, 1005
- Self-administration, ethanol, 843
 - drinking
 - lever press
 - minimum-interreinforcer interval
- Self-stimulation
 - barbiturates, 625
 - dopamine, 867
 - dopamine receptors, 211
 - extinction, 867
 - GABA, 625
 - locomotor activity, 625
 - prefrontal cortex, 211
 - receptor affinities, 867
 - spontaneous motor activity, 211
- Seminal emission, 781
 - locomotor activity
 - RDS-127
 - sexual behavior, male rats
- Sensitization, 435
 - hamsters
 - locomotor activity
 - morphine
 - tolerance
- Sensory motor reactivity, 527
 - acoustic startle reflex
 - guinea pigs
 - harmaline
 - pinna reflex
 - vertex potentials
- Serine, 245
 - animal model
 - catalepsy
 - glycine
 - psychosis
- Serotonin
 - anxiety, 225

- chlorimipramine, 193
- chronic administration, 193
- exploratory behavior, 193
- locomotor activity, 193
- myoclonus, 193
- punishment, 225
- resting time, 193
- substantia nigra, 225
- Serotonin antagonists, 873
 - drug interaction
 - morphine
 - nociception
- Serotonin metabolism, 27
 - adrenergic agents
 - biochemical effects
 - locomotor activity
 - median raphe nucleus
 - microinjections
 - open field
- Sex differences
 - alcohol hypnosis, 131
 - avoidance, 599
 - central nervous system depression, 131
 - dexamethasone, 599
 - genetic factors, 131
 - level press, 599
 - pituitary adrenocortical system, 599
 - prostaglandin synthesis, 131
 - selective breeding, 131
- Sexual behavior, male rats, 781
 - locomotor activity
 - RDS-127
 - seminal emission
- Shock-induced fighting
 - β -adrenergic receptors, 313
 - aggressive behaviors, 313
 - chronic administration, 719
 - drug interaction, 419
 - maprotiline, 719
 - oxaprotiline, 719
 - propranolol, 419
 - quipazine, 419
- Short-term memory, 963
 - cholinergic drugs
 - delayed match-to-sample
 - rhesus monkeys
- SKF-10,047, 737
 - N-allylnormetazocine
 - eating
 - opiate receptors
- Sleep-wake cycle, 715
 - diazepam
 - EMG activity
 - power spectral analysis
- Social interactions, 645
 - agonistic behavior
 - ethanol
 - ethological analysis
 - strain differences
- Social isolation
 - analgesia, 679
 - chickens, 163
 - group housing, 679
 - hyperthermia, 163
 - isolated housing, 679
 - isolation, 163
 - opiates, 163
- Somatostatin, 925
 - gastric ulcer
 - histamine
 - stimulation, vagal
- Spatial memory, 397
- morphine
 - opiate antagonists
 - retention
- Spinal cord, 427
 - dopamine metabolism
 - seizures, post decapitation
- Spontaneous motor activity
 - amphetamine, 157
 - conditioned avoidance, 157
 - dopamine receptors, 211
 - dopaminergic mechanisms, 157
 - LHRH, 157
 - prefrontal cortex, 211
 - self-stimulation, 211
- Squirrel monkeys
 - aggression, 5
 - attack, 5
 - beagle dogs, 1011
 - biting, 5
 - drug interaction, 553
 - fixed interval schedule, 553
 - fixed ratio schedule, 5, 1011
 - lever-press, 5
 - nicotine, 553, 1011
 - response-independent shock, 5
 - stimulus, shock termination, 553
- Staining, 1049
 - histological sectioning
- Startle response, 407
 - brain catecholamines
 - conditioned emotional response
 - lesions, central noradrenergic bundle
 - open field
- Stereotypy
 - α -adrenolytics, 19
 - affective behavior, 33
 - amphetamine, 33, 57
 - animal model, affective psychosis, 33
 - apomorphine, 19, 49, 57, 153, 199
 - defensive flight, 33
 - dopamine, 19
 - dopamine receptor system, 153
 - dopaminergic activity, 49
 - dopaminergic supersensitivity, 199
 - drug interactions, 19
 - GABA receptor binding, 199
 - haloperidol, 199
 - lesions, 6-hydroxydopamine, 49
 - lesions, substantia nigra, 49
 - locomotor activity, 153
 - morphine, 57
 - muscimol, 199
 - naloxone, 49
 - L-prolyl-L-leucyl-glycinamide, 49
 - rotation sensing device, 57
 - strain differences, 153
 - striatum, 19
- Stimulation, electrical
 - cingulate cortex, 483
 - drinking, 571
 - energy balance, 571
 - escape, 301
 - ethanol, 571
 - gastric pathology, 483
 - lodrosis, 351
 - mesencephalic central gray, 301
 - metabolism, 571
 - microinjections, 301
 - morphine, 301
 - mucosal erosions, 483
 - nociceptive stimuli, 301
 - raphe nuclei, 351
- Stimulation, tactile, 281
 - GABA agonist
 - superior colliculus
- Stimulation, vagal, 925
 - gastric ulcer
 - histamine
 - somatostatin
- Stimulus shock termination, 553
 - drug interaction
 - fixed-interval
 - nicotine
 - squirrel monkeys
- Strain differences
 - acarbose, 85
 - active avoidance, 655
 - agonistic behavior, 645
 - apomorphine, 153
 - avoidance, 457
 - benzodiazepine, 951
 - carbohydrate absorption, 85
 - 3-carbomethoxy- β -caroline, 951
 - dopamine receptor system, 153
 - eating, 85
 - ethanol, 645
 - ethological analysis, 645
 - hypothermia, 257
 - lithium chloride, 257
 - locomotor activity, 153
 - obesity, 85
 - passive avoidance, 655
 - pharmacodynamics, 257
 - post shock motor suppression, 457
 - retention, 655
 - social interactions, 645
 - stereotypy, 153
 - stress, 457
 - substance P, 655
 - toxicity, 257
- Stress
 - aggression, 883
 - avoidance, 457
 - immunoglobulin E (IgE), 883
 - MHPG-SO₄, 287
 - noradrenaline activity, 287
 - post shock motor suppression, 457
 - restraint, 287
 - strain differences, 457
- Stress, heat induced, 251
 - activity
 - foot shock
 - pituitary-adrenal axis
- Stress, shock induced, 795
 - endogenous opioids
 - LHRH
 - lordosis
- Stress ulcers, drug induced, 359
 - adrenergic blockers
 - aggressive behavior
 - anticholinergic drugs
 - gastric secretion
- Striatal dopaminergic system, 13
 - automated rotation measurement
 - circling behavior
 - lesions, 6-hydroxydopamine
 - lesions, striatum
- Striatum
 - α -adrenolytics, 19
 - apomorphine, 19
 - cholinergic drug interaction, 63
 - circling behavior, 231
 - dopamine, 19, 231
 - dopamine receptors, 63

- drug interactions, 19, 231
- genotypic variation, 63
- hippocampus, 63
- neuroleptics, 63
- stereotypy, 19
- Substance P**, 655
 - active avoidance
 - passive avoidance
 - retention
 - strain differences
- Substantia nigra**, 225
 - anxiety
 - punishment
 - serotonin
- Superior colliculus**
 - drug interaction, 813
 - GABA agonist, 281
 - rotational behavior, 813
 - stimulation, tactile, 281
 - wet dog shakes, 813
- Syrian hamsters**, 605
 - nicotine
 - taste
 - tobacco

- Tail flick**, 447
 - analgesia
 - clonidine
 - cold water swim
 - hypothermia
 - lesions, locus coeruleus
- Taste**, 605
 - nicotine
 - Syrian hamsters
 - tobacco
- Thermoregulation**
 - blackbirds, 857
 - conditioned response, 327
 - discrimination, 857
 - drinking, 857
 - morphine, 327
 - neurotensin, 477
 - tolerance, 327
- Thyroid hormone**, 559
 - nicotine
 - plasma corticosterone

- T maze**, 121
 - drug interaction
 - DSP4
 - eating
 - locus coeruleus-noradrenaline system
 - motor activity
- Tobacco**, 605
 - nicotine
 - Syrian hamsters
 - taste
- Tolerance**
 - alcohol, 683
 - d-amphetamine, 219
 - apomorphine, 219
 - body temperature, 103
 - central amygdaloid nucleus, 219
 - choline uptake, 103
 - chronic administration, 103
 - conditioned response, 327
 - ethanol, 683
 - hamsters, 435
 - jump test, 683
 - locomotor activity, 435
 - morphine, 327, 435
 - muscarinic receptors, 103
 - oxotremorine, 103
 - postsynaptic dopamine receptors, 219
 - rotarod performance, 103
 - selective breeding, 683
 - sensitization, 435
 - thermoregulation, 327
- Toluene exposure**, 899
 - anxiolytic action
 - conflict behavior
 - diazepam
 - drug interactions
- Toluene preference**, 933
 - ethanol preference
- Toxicity**, 257
 - hypothermia
 - lithium chloride
 - pharmacodynamics
 - strain differences
- Tricyclic anti-depressants**, 751
 - drug discrimination
- Tripeptenamine**, 911
 - analgesia
 - drug interaction

- penzocine**
- Tritiated methadone**, 1051
- neurobehavioral effects
- opiates
- prenatal administration

- Urinary output**, 863
 - mice
 - opioid receptor agonists

- Vasopressin**, 587
 - drug interaction
 - histamine
 - oxytocin
 - pentylenetetrazol
- Vertex potentials**, 527
 - acoustic startle reflex
 - guinea pigs
 - harmaline
 - pinna reflex
 - sensory motor reactivity
- Videodigitizer**, 765
 - computerized animal observation
 - microcomputer

- Wet dog shakes**, 813
 - drug interaction
 - rotational behavior
 - superior colliculus
- Wheel running**, 393
 - activity, stress paradigm
 - gastric ulcers
 - noradrenaline turnover
- White leghorn cocks**, 617
 - eating
 - gonadal steroids
 - obesity
- Whole brain extract**, 241
 - operant behavior
- Withdrawal**, 53
 - auditory stimulus
 - drinking
 - ethanol dependence
 - polydipsia, schedule-induced
- Writhing**, 879
 - alpha-adrenoceptors
 - opioid receptors

AUTHOR INDEX

- Ago, Y., 883
 Ahlenius, S., 693
 Albertson, T. E., 339, 345
 Algeri, S., 427
 Alling, C., 115
 Alloway, K. D., 759
 Altmann, H., 369
 Amit, Z., 251
 Anderson, G. M., 743
 Ånggård, E., 115
 Anisman, H., 487, 497
 Antes, J. R., 431
 Archer, T., 121
 Arendash, G. W., 351
 Artman, L. D., 103
 Atkinson, J., 373
 Atlas, D., 879
 Ator, N. A., 993
 Atrens, D. M., 571
 Badalamenti, J. I., 1049
 Baile, C. A., 235
 Balderrama, N., 921
 Balster, R. L., 97
 Banks, W. A., 1037
 Barchas, J. D., 379
 Barfield, R. J., 777
 Barney, C. C., 519
 Barrett, J. E., 553, 1027
 Barrett, R. J., 457
 Bartley, H. L., 513
 Bashore, T. R., 759
 Bassett, J. R., 559
 Bayorh, M. A., 365
 Beardsley, P. M., 843
 Beaton, J. M., 241
 Beatty, W. W., 397
 Becker, W., 115
 Beckwith, B. E., 431
 Berge, O.-G., 873
 Berman, R. F., 733
 Bernet, F., 407
 Berry, M. S., 645
 Bidziński, A., 27, 177
 Billington, C. J., 577
 Bo, W. J., 583
 Bodnar, R. J., 447
 Bodnarenko, S. R., 1051
 Boer, G. J., 599
 Boissard, C. G., 719
 Boulton, A. A., 471
 Bourn, W. M., 839
 Brann, M. R., 57
 Bravo, F., 435
 Bray, G. A., 71
 Bridges, R. S., 609
 Broitman, S. T., 193
 Bruinvels, J., 245
 Bruto, V., 487, 497
 Burke, T. R., Jr., 365
 Buterbaugh, G. G., 973
 Calabrese, L. C., 813
 Cam, G. R., 559
 Carlson, G. M., 263
 Carney, J. M., 549
 Celasco, G., 917
 Chan, A. W. K., 275
 Chang, K., 945
 Chase, T. N., 655
 Chen, S. M., 925
 Chen, S. W., 925
 Cho, C. H., 925
 Clark, J. T., 781
 Cleary, J., 911
 Cohen, D. J., 743
 Coleman, G. J., 269, 795
 Collins, A. C., 103, 131
 Collu, M., 917
 Commissaris, R. L., 891
 Cooper, D. O., 457
 Cooper, S. J., 505
 Covelli, V., 567
 Coyle, I. R., 513
 Crampton, G. H., 827
 Czekajewski, J., 13
 Danek, L., 19
 Danysz, W., 27
 Daunton, N. G., 827
 Davidson, J. M., 781
 Davis, A. J., 867
 Davis, K. R., 791
 Davis, M., 891
 Deere, W., 979
 de Caro, G., 335
 de Kloet, E. R., 587
 Delini-Stula, A., 719
 DePaulis, A., 729
 De Simoni, M. G., 427
 Di Scala, G., 281
 Díaz-Vélez, G., 157
 Dose, M., 369
 Dourish, C. T., 471
 Dudek, B. C., 327
 Durkin, T. P., 63
 Dyr, W., 177
 Ebel, A., 63
 Ehrlich, Y. H., 57
 Eichelman, B., 313
 El-Kassem, M., 257
 Ellinwood, E. H., Jr., 969
 Ellis, J., 57
 Ellis, M. E., 733
 Elmer, G. I., 131
 Emley, G. S., 5
 Emrich, H. M., 369
 Etgen, A. M., 777
 Falk, J. L., 53, 385
 Fasmer, O. B., 873
 Feldman, R. S., 423
 Feldon, J., 39
 Ferrer, J. M. R., 211
 Fertig, J. B., 291
 Fijiwara, M., 883
 Finnerty, M., 57
 Foscolo, M. R., 193
 Fowler, S. C., 787
 Francesconi, R., 1031
 Fredholm, B. B., 535
 Fregly, M. J., 519
 Friedman, E., 309
 Frischknecht, H.-R., 939
 Frohm, K. D., 163
 Fujiwara, M., 359
 Fung, Y. K., 13, 231
 Galina, Z. H., 251
 Gallistel, C. R., 867
 Gallus, J. A., 821
 Garrett, R. L., 839
 Garza, R. de la, 145
 Gause, E. M., 899, 933
 Geller, I., 899, 933
 Gelman, J., 759
 George, F. R., 131
 Gessa, G. L., 917
 Gianutsos, G., 263
 Gibbs, G. L., 979
 Gispens, W. H., 765
 Glavin, G. B., 287
 Glick, S. D., 1049
 Glick, Z., 71
 Glusman, M., 663
 Godfrey, J. G., 263
 Goldberg, S. R., 989, 1011, 1021
 Goldstein, B. D., 79
 Gordon, J. H., 807
 Gorski, R. A., 351
 Gosnell, B. A., 737, 771
 Gourdon, M.-J., 527
 Grace, M., 577
 Gramling, S. E., 787
 Greenland, R. D., 635
 Greenleaf, J. E., 519
 Greenshaw, A. J., 471
 Greenwood, M. R. C., 85
 Greer, N. L., 415
 Griffiths, R. R., 993
 Grimm, C. T., 609
 Grossett, D., 911
 Grunberg, N. E., 553
 Hacker, M., 57
 Hammer, N. J., 945
 Hamon, M., 225
 Haraczkiewicz, E., 85
 Hartl, T. J., 49
 Hartmann, R. J., 899, 933
 Hashem-Zedeh, H., 63
 Hauptmann, M., 27
 Hegstrand, L. R., 313
 Heinsbroek, R. P. W., 599
 Helmeste, D. M., 153
 Hendry, J. S., 97
 Henke, P. G., 483
 Henningfield, J. E., 887, 989,
 1011, 1021
 Hepler, J. R., 477
 Herberg, L. J., 625
 Hernandez, D. E., 791
 Herrera-Marschitz, M., 535
 Hill, D. L., 423
 Ho, L. T., 925
 Hoaki, Y., 287, 393
 Hole, K., 873
 Holloway, W. R., Jr., 725
 Holtzman, S. G., 505
 Howerton, T. C., 131
 Hubbard, R., 1031
 Huffman, R. D., 199
 Hulse, G. K., 269, 795
 Hutchings, D. E., 1051
 Hutchinson, R. R., 5
 Hynes, M. D., 879
 Ida, Y., 393, 543
 Iimori, K., 393
 Iovino, M., 335
 Ito, Y., 883
 Jackson, C., 33
 Jasinski, D. R., 887
 Jenck, F., 301
 Johanson, C. E., 145
 Johnels, B., 463
 Johnson, N. J., 801
 Jones, A. W., 115
 Jonzon, B., 535
 Jork, R., 43
 Joy, R. M., 339, 345
 Kalant, H., 441
 Kameyama, T., 671
 Karli, P., 281, 301
 Kastin, A. J., 1037
 Kattau, R. W., 863
 Kelly, P. H., 137
 Kempf, J., 63
 Kesner, R. P., 733
 Khazan, N., 711, 715
 Kikta, D. C., 519
 Kneip, J., 577
 Kober, K. J., 13
 Kohno, Y., 287, 393, 543
 Kokkinidis, L., 497, 593
 Kopin, I. J., 365
 Kornetsky, C., 149
 Kostowski, W., 27, 177
 Krueger, W. A., 583
 Ksir, C., 605
 Kucharski, L. T., 149
 Kuster, J., 309
 Laczi, F., 587
 Lasley, S. M., 635
 Lavond, D. G., 379
 Leander, J. D., 863
 Lee, E. H., 219
 Lee, T. F., 477
 Leibowitz, S. F., 945
 Le Magne, J., 571, 1045
 Lemaire, G. A., 843
 Lenox, R. H., 57
 Leong, F. W., 275
 Lerer, B., 309
 Lerner, T., 39
 Lerud, K., 431
 Levin, D., 39
 Levine, A. S., 23, 403, 577, 737,
 771
 Levitt, M., 1051
 Lin, K.-N., 1041
 Levy, R. A., 79
 Lewis, R. M., 787
 Li, T.-K., 683, 849
 Linakis, J., 743
 Lindström, K., 535
 Lipsitz, D. U., 655
 Lodder, H. M., 755
 Loddio, S., 917
 Lössner, B., 43
 Lozovsky, D., 365
 Lucas, T. S., 49
 Lucchi, L., 567

- Lumeng, L., 683, 849
- McBride, W. J., 683, 849
- McDonough, J. H., Jr., 963
- McElroy, J., 423
- McLaughlin, C. L., 235
- Madden, J., IV, 379
- Mager, M., 1031
- Maggio, C. A., 85
- Maickel, R. P., 321
- Maldonado, H., 921
- Mandel, P., 63
- Mandybur, T., 635
- Marfaing-Jallat, P., 571, 1045
- Marks, M. J., 103
- Martel, R. R., 321
- Martin, A., 985
- Maruniak, J. A., 857
- Massi, M., 335
- Mason, J. R., 857
- Masur, J., 755
- Matthies, H., 43
- Mauk, M. D., 379
- Medeiros, D. M., 1041
- Meisch, R. A., 843
- Mendez, V., 899
- Mens, W. B. J., 587
- Merrigan, K. P., 447
- Mickley, G. A., 979
- Miller, L. H., 423
- Mine, K., 359, 883
- Miraldo, A., 921
- Miyasato, K., 887
- Moerschbaecher, J. M., 701
- Mogilnicka, E., 719
- Mohammed, A. K., 121
- Mollenauer, A., 33
- Moore, G. H., 979
- Moore, J. E., 561
- Moore, K. E., 905
- Mora, F., 211
- Mora, S., 157
- Morley, J. E., 23, 403, 577, 737, 771
- Morris, P. E., 241
- Morse, D. E., 553
- Mucha, R. E., 441
- Mueller, G. P., 979
- Murphy, J. M., 849
- Myers, R. D., 477
- Myslobodsky, M., 39
- Nagasaki, N., 287, 393, 543
- Nail, G. L., 787
- Nakagawa, R., 393, 543
- Nakagawa, T., 359, 883
- Nakamura, M., 549
- Nanry, K. P., 821
- Nicklaus, K. J., 813
- Nielsen, J. A., 905
- Nishikawa, T., 393
- Nobrega, J. N., 831
- Noda, T., 359
- Noda, Y., 543
- Núñez, J., 921
- Oei, T. P. S., 453, 985
- Oliverio, A., 679
- O'Shaughnessy, M., 441
- Ossowska, K., 169
- Pappas, B. A., 957
- Paul, S. M., 951
- Peck, P. L., 655
- Pellet, J., 527
- Pelleymounter, M. A., 655
- Penetar, D. M., 963
- Pepplinkhuizen, L., 245
- Petkov, V. V., 567
- Picker, M., 911
- Pilotto, R., 985
- Płaźnik, A., 27, 427
- Poenaru, S., 335
- Poling, A., 821, 911
- Pollack, T., 33
- Pomerleau, O. F., 291
- Popov, N., 43
- Potegal, M., 663
- Potter, E. A., 13
- Prasad, V., 419
- Proudfit, H. K., 79
- Puglisi-Allegra, S., 679
- Quock, R. M., 49
- Rabii, J., 777
- Rafales, L. S., 635
- Raskin, L. A., 187, 743
- Rathbun, R. C., 863
- Rebec, G. V., 219, 759
- Reichenberg, K., 19
- Reynolds, B. W., 431
- Rice, K. C., 365
- Riggio, G., 939
- Risner, M. E., 1011
- Roberts, D. C. S., 137
- Robinzon, B., 617, 929
- Rockwell, W. J. K., 969
- Rodgers, R. J., 895
- Rodríguez Echandía, E. L., 193
- Rosecrans, J. A., 97
- Rosellini, R. A., 327
- Rosenfield, S., 895
- Ross, S. B., 121
- Rowland, N. E., 519
- Rudeen, P. K., 583
- Ruffolo, R. R., Jr., 879
- Sanguinetti, A. M., 211
- Schanley, D. L., 275
- Schechter, M. D., 1, 415, 751
- Schlesinger, K., 655
- Schmidt, D. E., 457
- Schmidt, S., 43
- Schmitt, P., 301
- Schnur, P., 435
- Schouten, M. J., 245
- Schulzeck, S., 43
- Schwarz, R. D., 231
- Schweri, M. M., 951
- Serra, G., 917
- Sewell, R. G., Jr., 821
- Shalita, B., 617
- Shanahan, S. O., 291
- Shapiro, N. R., 327
- Shapiro, R. M., 1049
- Shaywitz, B. A., 743
- Sheard, M. H., 419
- Siegfried, B., 939
- Silva-Filho, A. R., 755
- Sinden, J. D., 1045
- Singer, G., 513, 985
- Singh, S. M., 257
- Skolnick, P., 951
- Slifer, B. L., 1005
- Smiałowska, M., 169
- Smith, E. R., 781
- Smoothy, R., 645
- Snapir, N., 617, 929
- Snoddy, A. M., 205
- Söderberg, U., 121
- Soubrie, P., 225
- Spano, P.-F., 567
- Spealman, R. D., 1011
- Sperber, E., 447
- Spruiji, B. M., 765
- Stark, L. G., 339, 345
- Steardo, L., 335
- Stefanick, M. L., 781
- Stevens, K. E., 979
- Stevens, R., 801
- Stewart, J. M., 655
- Sutherland, C. J., 251
- Svensson, L., 693
- Takeda, S., 543
- Tanaka, M., 287, 393, 543
- Tang, M., 53
- Teicher, M. H., 743
- Tessel, R. E., 205
- Thiébot, M.-H., 225
- Thompson, D. M., 701
- Thompson, R. F., 379
- Thor, D. H., 725
- Thorne, B. M., 1041
- Threatte, R. M., 519
- Ticku, M. K., 199
- Tonnaer, J. A. D. M., 587
- Torello, M. W., 13
- Trabucchi, M., 567
- Trujillo, M., 435
- Tsuda, A., 287, 393
- Tsuruta, N., 359
- Turnbull, B. A., 423
- Ueki, S., 359, 883
- Ukai, M., 671
- Ungerstedt, U., 535
- van de Poll, N. E., 599
- van der Kooy, D., 441
- Vanecek, S. A., 821
- van Oyen, H. G., 599
- van Wimersma Greidanus, T.J. B., 587
- Vasselli, J. R., 85
- Vathy, I. U., 777
- Verleye, M., 407
- Vetulani, J., 19
- Vives, F., 211
- von Zerssen, D., 369
- Wagoner, N., 969
- Waldmeier, P. C., 719
- Wallace, S., 911
- Waller, M. B., 683
- Waller, S. B., 973
- Wallnau, L. B., 163
- Walsh, P., 957
- Waser, P. G., 939
- Waters, A. J., 895
- Weaver, M. L., 1041
- Weiss, M., 527
- Weldon, D. A., 813
- White, G. A., 979
- Wiener, N. I., 831
- Williams, J. E. G., 149
- Williams, S. F., 625
- Wilson, J. H. P., 245
- Winsauer, P. J., 701
- Wiszniewska-Szafraniec, G., 19
- Wolfarth, S., 169
- Wolfenden, R., 791
- Wu, B. N., 1041
- Yoburn, B., 663
- York, J. L., 687
- Young, G. A., 711, 715
- Zacharski, B., 177