

VOLUME 59, 1998 KEYWORD INDEX

- Abecarnil, 657
Acetylcholine, 1069
Acetylcholine release, 657
Acetylcholinesterase inhibitors, 1069
Acquisition and performance, 295
Activity, 115
Acute, 151
Acute tolerance, 945
Addiction, 1
Adrenal medulla, 97
 α_2 -Adrenoceptors, 477
Adrenocorticotrophic hormone, 663
 α -Ethyltryptamine, 265
Affect, 215
Affective disorders, 369
Age, 1039
Aggression, 747, 793, 891
Aging, 255
Agonist, 439
Agonistic behavior, 347
Alcohol, 67, 91, 649, 949
Alcohol abuse, 627
Alcohol dependence, 955
Alcohol preference, 627
Alcohol-preferring rats, 209
Alcohol self-administration, 281
Alertness, 1039
Allopregnanolone, 819
Ambulatory activity, 239
Amino acids, 115
Amnesia, 527
AMPA receptors, 1087
Amperozide, 91
Amphetamine, 59, 271, 275, 505, 619, 703, 737, 807, 873, 993, 1003
d-Amphetamine, 249, 459, 1011
Analgesia, 109, 123, 201, 331, 759, 993
Anandamide, 347
Anesthesia, 945
Angiotensin, 521
Animal model of anxiety, 677
Anorectic activity, 439, 709
Anti-inflammatory agents, 759
Anticholinergic drugs, 641
Antidepressants, 171, 331, 547
Antihistamines, 753
Antinociception, 77, 295, 339, 399, 477, 723
Antipsychotics, 487
Antisense, 399
Anxiety, 45, 221, 313, 387, 677, 787
Anxiolytics, 33, 527, 935
AP-7, 685
Apomorphine, 619, 737, 747, 873
ARL15849, 439
Associative, 123
Atipamezole, 477
Atropine, 903
Attention, 145
Autoradiography, 51, 925
Autoreceptors, 377
Aversive properties, 249
Baclofen, 685
Barbituates, 511
Basal forebrain (BF) lesion, 129
Basolateral nucleus of the amygdala, 27
Behavior, 83, 305, 313, 459, 567, 595, 619, 961, 1061, 1081
Behavioral economics, 557
Behavioral selectivity, 221
Behavioral sensitization, 1011
Behavioral tests, 685
Benzodiazepine, 33, 511, 527, 909, 925, 939, 949, 1069
Beta-FNA, 627
Biphasic effects, 347
Bipolar affective disorder, 191
Blink reflex, 469
Blood pressure, 305
Body composition, 577
Borna disease virus, 1047
Bradykinesia, 445
Brain, 671, 1081
Brain cholinesterase, 897
Brain concentrations, 945
Brain temperature, 261
Brainstem, 145
Breath-holding, 405
Burying behavior, 45
Buspirone, 387, 729
Butorphanol, 723
Cabergoline, 717
Caffeine, 39, 145, 433, 1039
Caffeine withdrawal, 1039
cAMP, 859
Cannabinoids, 287, 347, 993
Capsaicin, 339
Carbamazepine, 191
Carbon monoxide, 767
Cardiovascular, 305
Catalepsy, 347
Catecholamines, 97, 709
Cats, 619
C57BL/6J mice, 135
CCK, 261, 439, 451, 843, 967
CCK-A receptors, 439
CCK-B receptors, 439
CCK-8S, 179
Cell-mediated immunity, 151
Central, 151
Central nervous system stimulants, 59
Cerebral cortex, 657
CGP 37849, 159
CGS 10746B, 215
Chemoreceptors, drug effects, 759
Chicken embryo, 585
Chlordiazepoxide, 33, 387, 663
Chloride influx, 209
Chlorimipramine, 369
1-(*m*-Chlorophenyl)-biguanide, 975
Cholecystokinin. See CCK
Cholera toxin, 191
Choline acetyltransferase, 361
Cholinesterase, 1061
Chromaffin cells, 97
Chronic, 151
Chronic administration, 717
Chronopharmacology, 459
Cigarettes, 767
Circadian, 369
Cirrhosis, 949
[³H]Citalopram binding, 747
Classical conditioning, 427, 469
Clonidine, 109
Cocaethylene, 649
Cocaine, 159, 215, 265, 275, 305, 567, 595, 637, 649, 697, 703, 1047
Cocaine multiple injections, 585
Cognition, 949
Cold restraint stress, 27
Common marmosets, 717
Conditional response, 39
Conditioned place aversion, 427
Conditioned place preference, 105, 215, 813
Conditioned taste aversion, 379, 649, 975
Conditioning, 33, 451, 1011
Core body temperature, 777
Corticosterone, 255, 663
Craving, 1031
Crossfamiliarization, 975
Crosstolerance, 511
Cue, 1031
Cytokines, 759
Cytolytic activity, 151
DBA/2J mice, 135
Defensive behavior strategy, 793
2-Deoxyglucose autoradiography, 925
Dependence, 83, 697, 925, 1021, 1031
Depression, 171, 369, 777, 787
Desipramine, 171, 547
Devazepide, 843
Development, 201, 829, 853
Diazepam, 221, 319, 917, 925
Diazepam dependence, 939
Dichlovros, 1081
Discrimination, 375
Discriminative properties, 249
Dizocilpine, 159
DOI, 585, 729
DOM, 1003
Dopamine, 91, 238, 275, 305, 327, 557, 737, 859, 993, 1003, 1021
Dopamine antagonists, 281
Dopamine D₃ antagonists, 487
Dopamine D₂ receptors, 275
Dopamine D₃ receptors, 487
Dopamine receptor agonists, 717
Dopamine release, 215

- Dorsolateral striatum, 1021
 Dose response, 19, 459
 Drug abuse, 59, 67, 379
 Drug dependence, 1
 Drug discrimination, 19, 159, 265, 295, 319, 413, 419, 495, 505, 691, 703, 709
 Drug interactions, 649
 Drug reinforcement, 1039
 Drug reward, 33
 Dynorphin, 399
- E2020, 897
 EEG, 83, 945
 Eight-arm radial maze, 361
 Electrolytic lesion, 619
 Electrophysiology, 1061
 Elevated plus-maze, 807
 Emotional state, 657
 Encephalitis, 1047
 Endocrine, 171
 Endogenous ligands, 949
 Enriched open field, 807
 Environment dependent, 123
 Environment independent, 123
 Environmental enrichment, 379
 Esterases, 1081
 Estradiol, 521, 551
 Estrous, 521
 Ethanol, 19, 51, 91, 123, 135, 427, 511, 567, 691, 917, 961, 967, 975, 981
 Excitotoxicity, 981
 Expectancy, 39, 287
 Exploratory behavior, 51
 Expression of aggression, 27
- FAST mice, 135
 Fawn-Hooded rats, 105, 265
 Feeding, 179, 657, 753
 Fenfluramine, 709
 Fentanyl, 295
 Fetal development, 577
 Fever, 835
 Filter ventilation, 767
 Fischer rats, 799, 813
 Fixed-interval response, 641
 Flavor, 451
 Flumazenil, 537
 Flumenazil, 19
 Flunitrazepam, 19
 Fluoxetine, 151, 595
 Food deprivation, 677
 Food intake, 677
 Foot shock stress, 255
 Foraging task, 641
 Forced swim test, 171, 547
 Freezing behavior, 45
 FSL rat, 777
- G protein, 191
 GABA, 51, 239, 319, 819
 GABA_A agonists, 993
 GABA_A receptors, 209, 925, 955
 GABA transaminase inhibitors, 319
 Gallbladder contraction, 439
 Gamma-aminobutyric acid. See GABA
 Gamma-hydroxybutyric acid. See GHB
 Gastric lesions, 27
 Gender differences, 799
 Gene expression, 853, 925
 Generalization, 19, 265
 Genetic differences, 799
 Genetic selection, 627, 793
- Genetics, 353
 GHB, 697
 Ginger, 527
 Glutamate receptors, 233
 Glutamate release inhibitors, 691
 Guinea pig, 1061
- H₁ receptors, 753
 H₃ receptors, 255
 Habituation, 59, 145
 Hallucinogens, 419
 Haloperidol, 275, 1053
 Handling, 807
 Heart rate, 1031
 Hereditary catalepsy, 793
 Herniated umbilici, 585
 Hexobarbital, 945
 Hippocampal lesion, 361
 Hippocampus, 657, 787, 853
 Histamine, 753
 Histamine release, 255
 Homotaurine, 955
 Honeybee, 903
 HPA system, 799
 HPLC, 945
 5-HT. See also Serotonin
 5-HT_{1A} agonists, 729
 5-HT₂ agonists, 729
 5-HT₃ agonists, 935
 5-HT receptors, 115
 5-HT_{1A} receptors, 595, 787, 891
 5-HT_{2A} receptors, 91, 275, 595, 891
 5-HT_{2A/2C} receptors, 469
 5-HT₂ receptors, 585
 5-HT_{2C} receptors, 595
 5-HT₃ receptors, 527, 975
 5-HT_{1A} serotonergic receptors, 793
 Human, 39, 51, 145
 Human aging, 445
 6-Hydroxydopamine, 327, 619, 737
 Hyperactivity, 271
 Hyperalgesia, 77, 835
 Hyperthermia, 77, 91, 353
 Hypoalgesia, 835
 Hypothalamus, 91, 179, 255, 375
 Hypothermia, 91, 353
- Ibogaine, 413, 419, 495
 Ibotenic acid, 619
 Idazoxan, 477
 Imipramine, 369
 Immune, 171
 Immunocompetence, 835
 Impulsivity, 115
 Inbred mice, 67, 135, 353, 567, 637
 Incentive motivation, 1011
 Infant-mother interactions, 843
 Inhibition, 305, 897
 Initiation, 445
 Interstimulus interval, 427
 Intraduodenal infusions, 451
 Intranasal, 439
 Intrathecal injection, 339, 723
 Intravenous self-administration, 697
 Isolation rearing, 859
 Isometric force, 737
- JTP-4819, 361
- Ketanserin, 595
- Lactation, 45
 Lamotrigine, 691
 Latent inhibition, 873, 1053
 Learning, 469, 613, 729
 Lewis rats, 799, 813
 Lithium, 191
 Locomotor activity, 135, 271, 353, 427, 433, 487, 595, 737, 883, 897, 1021
 Locomotor activity nucleus accumbens, 191
 Locus coeruleus, 109
 Lordosis, 551
 Low-yield cigarettes, 767
 LPS, 835
 LSD, 105, 265, 413, 469
 Lymphocytes, 151
 Lysergic acid diethylamide. See LSD
- Magnesium chloride, 159
 Male rats, 945
 Marijuana, 287, 405
 Maternal, 201
 Maternal behavior, 843
 Maternal separation, 853, 873
 Mazes
 - eight-arm radial maze, 361
 - elevated plus-maze, 807
 - Morris water maze, 129, 1087
 - plus-maze, 221
 - radial maze, 641, 897
 - tunnel maze performance, 183
 - water maze, 729
- Mazindol, 1047
 MDA, 1003
 MDE, 265
 MDL 28,133A, 275
 MDMA, 215, 265, 1003
 Medetomidine, 477
 Memory, 613, 641, 903, 909, 917
 Mescaline, 265
 Mesolimbic dopamine, 1
 N-Methyl-D-aspartate, 413
 Methylenedioxymethamphetamine, 215
 (R)-alpha-Methylhistamine, 255
 Methysergide, 595
 Metoprine, 753
 MF268, 897
 Mice, 135, 183, 221, 239, 313, 637, 829, 891, 1011
 Microdialysis, 51, 179, 1003
 - in vivo, 859
- Mineral content, 577
 Mirfentanil, 295
 MK-801, 135, 159, 433, 613
 Monkeys, 295
 Monoamine oxidase, 671
 Monoamine uptake, 305
 Mood, 1039
 Morphine, 123, 249, 353, 663, 723
 - adverse effects, 759
- Morris water maze, 129, 1087
 Motivation, 1, 405, 557, 1031
 Motor, 445
 Motor activity, 51, 459
 Motor behavior, 1087
 Motor reflexes, 97
 Mouse spinal cord, 339
 Movement, 557
 mRNA, 627
 Mu opioid antagonist, 261
 Muscarinic-1 receptor rat, 361
 Muscarinic antagonists, 903
 Muscarinic blockers, 1069

- Muscarinic receptors, 369, 777, 1061
 Muscimol, 319, 955
- Naloxone, 961
 (+)-Naloxone, 271
dextro-Naloxone, 271
l-Naloxone, 271
d-Naloxone, 271
 Naltrexone, 201
 Natural killer cell activity, 835
 NBQX, 1087
 Neonatal rats, 843
 Neophobia, 239
 Nerve growth factor, 853
 Neural transplants, 97
 Neuroactive steroids, 221, 819
 Neuropeptide Y, 375
 Neurosteroids, 819
 Neurotoxic, 709
 Nicotine, 313, 1021, 1031
 Nictitating membrane, 469
 Nitric oxide, 981
 Nitric oxide pathway, 703
 NK cells, 151
 NMDA, 413, 433, 613, 981, 1021
 NMDA antagonists, 159, 495, 993
 NMDA receptor antagonists, 339
 NMDA receptors, 135, 339
 Nociception, 201
 Nonadrenergic, 551
 Nonassociative, 123
 Noradrenaline release, 27
 Norepinephrine, 109
 Norfenfluramine, 709
 Novelty seeking, 1011
 NPC 17742, 159
 NPY, 375
 Nucleus accumbens, 619, 737, 859, 1021
- Offspring, 313
 8-OH-DPAT, 45, 729, 777
 [³H]8-OH-DPAT binding, 793
 OHM3507, 295
 Ondansetron, 935
 Ontogeny, 777
 Open field, 115, 347, 387, 677, 807, 813, 873, 1087
 Operant, 557
 Operant behavior, 1069
 Operant responses, 737
 Opiate, 1, 83, 835
 Opiate receptors, 495
 Opioid antagonists, 627
 Opioid receptors, 201, 627
 Opioids, 201, 295, 759, 993
 Organophosphate, 1081
 Oxazepam, 917, 935
 Oximes, 1069
 Oxotremorine, 777
 Oxygen consumption, 261
- Pain, 97, 115, 123, 201, 477
 Palatability, 33
 Papez circuit, 925
 Parachlorophenylalanine, 387
 Paradoxical effects, 405
 Parkinsonism, 445, 717
 Pavlovian conditioning, 903
 Pb exposure, 183
 PCP, 159, 413
 Pentobarbital, 209
- Performance, 917
 Peripheral benzodiazepine receptor, 949
 Peripheral neuropathy, 97
 Phagocytosis, 347
 Pharmacogenetics, 567
 Pharmacokinetics, 637
 Phencyclidine, 433. See PCP
 Phenobarbital, 209
 Phosphoinositide hydrolysis, 439
 Physostigmine, 1061
 Pirenzepine, 903
 Pituitary gland, 627
 Place aversion, 33
 Place conditioning, 1, 427
 Place preference, 33
 Placebo, 39
 Plasma concentrations, 917
 Plus-maze, 221, 807
 Polyamines, 233
 Polycose, 451
 Porsolt test, 331
 Postnatal, 201
 Precipitated withdrawal, 939
 Precursor, 115
 Preference, 451
 Prenatal, 201, 313
 Prenatal alcohol, 577
 Prenatal cocaine, 577
 Prenatal morphine, 835
 Prenatal stress, 799
 Prenatal undernutrition, 577
 Prepulse inhibition, 883
 Pressor neurons, 233
 Pretreatment, 1061
 Primates, 717
 Progabide, 319
 Proglumide, 1053
 Prolactin, 663
 Proliferation, 151
 Prolyl endopeptidase, 361
 Propranolol, 387
 Protein content, 577
 Pseudoephedrine, 505
 Psychomotor performance, 1039
 Psychomotor stimulant, 459
 Puberty, 551
 PVG rats, 807
- Quinpirole, 77
- Rabbits, 469
 Raclopride, 1021
 Radial maze, 641, 897
 Radioligand binding, 419, 495
 Rapid tolerance, 511
 Rats, 19, 83, 129, 171, 233, 249, 265, 275, 281, 319, 331, 361, 379, 427, 433, 477, 505, 627, 641, 649, 677, 685, 691, 697, 703, 737, 747, 753, 777, 793, 799, 807, 853, 873, 897, 925, 945, 975, 1047, 1053, 1069, 1081, 1087
 Rebound, 537
 Receptors, 51, 399, 1021
 Reflex, 145
 Reinforcement, 557, 993
 Remoxipride, 281
 Reserpine, 387
 Respiration
 drug effects, 759
 physiology, 759
 Restraint stress, 663
 Review, 1
- Reward, 67, 215
 Rewarding properties, 249
Rhazya stricta, 547, 671
 Rhesus monkey, 295
 Rhythms, 369
 Riluzole, 691
 Risperidone, 275, 327
 Ritanserin, 469
 Rohypnol, 19
- SA4503, 129
 Sarin, 1069
 Sarmazenil, 939
 Satiation, 451
 SCH-23390, 327
 Schedule-controlled behavior, 159
 Schizophrenia, 883
 Scopolamine, 369, 641, 1061
 Sedation, 405, 909
 Selected mouse lines, 135
 Selective serotonin reuptake inhibitors (SSRIs). See SSRIs
 Self-mutilation, 327
 Self-stimulation, 275
 Serotonergic metabolism, 891
 Serotonin, 91, 151, 179, 275, 327, 419, 469, 527, 709, 777, 993, 1003. See also 5-HT
 Serotonin receptors, 729
 Sex, 255
 Sex differences, 105
 Sexual behavior, 551
 Sexual differentiation, 829
 Sickness behavior, 835
 Sigma receptors, 495
 Sleep deprivation, 909
 Sleep-wake states, 955
 Smoking, 767, 1031
 Social interaction, 787
 Social isolation, 379, 883, 891
 Sodium channel blockade, 305
 Soman, 1061, 1069
 Spatial, 613
 Spatial learning performance, 129
 Spatial memory, 361, 1087
 Specific serotonin reuptake inhibitors, 151
 Spinal, 399
 Spinal cord, 97
 Spontaneous, 83
 Spontaneously hypertensive rats (SHR), 109
 Sprague Dawley rats, 807
 SSRIs, 747
 Startle, 39, 145, 1031
 Startle reflex, 1031
 Starvation, 657
 Stereotypy, 873, 1011
 Steroid hormones, 829
 Steroids
 neuroactive, 221, 819
 neurosteroids, 819
 Stimulation, 405
 Stress, 67, 671
 Stress-induced analgesia, 663
 Stroke, 981
 Subacute Pb exposure, 183
 Subchronic, 1061
 Subchronic intoxication, 961
 Subjective drug effects, 287
 Subjective effects, 405
 Substance abuse, 993
 Sufentanil, 663
 Synaptosomal plasma membranes, 829
 Synaptosomes, 709

- T-cells, 151
Tachyphylaxis, 537
Tacrine, 897
Tail-flick, 77
Taste avoidance, 33
Taste reactivity, 33
Tegmental pedunculopontine nucleus, 1
Temperature, 77
Testosterone, 521
 Δ^9 -Tetrahydrocannabinol. See Δ^9 -THC
Tetratology, 577
 Δ^9 -THC, 287, 399, 405
Thermoregulation, 91, 261, 353
Thiopramide, 753
THIP, 319
Thirst, 521
- Tiagabine, 319
Time course, 19
Time factors, 51
Tolerance, 123, 399, 433, 925, 935, 939
Tribulin, 671
Tryptophan, 115
Tunnel maze performance, 183
- Ultrasonic vocalization, 843
- Valproic acid, 319
Vasoconstriction, 585
Vent blocking, 767
Ventilatory control, 759
Ventral tegmental area, 275
- Vigabatrin, 319
Voltammetry, 109
Voluntary movement, 445
- Water intake, 521
Water maze, 129, 729, 1087
WAY 100635, 595
Withdrawal, 1, 83, 925, 955
Withdrawal syndrome, 967
Writhing test, 331
- Xenobiotics, 829
- Zolpidem, 917
Zopiclone, 917