

CONTENTS

VOLUME 79, 2004

CONTENTS

VOLUME 79 NUMBER 1 2004

ARTICLES

- Behavioral and immunological effects of substance P in female and male mice.**
TEIXEIRA, R.M., F.S. DUARTE and T.C.M. DE LIMA 1
- Effect of leaves of *Butea frondosa* on stress, anxiety, and cognition in rats.**
SOMAN, I., S.A. MENGI and S.B. KASTURE 11
- Therapeutic doses of diazepam do not alter impulsive behavior in humans.**
REYNOLDS, B., J.B. RICHARDS, M. DASSINGER and H. DE WIT 17
- A 5-HT_{2C} receptor-mediated interaction between 2,5-dimethoxy-4-methylamphetamine and citalopram in the rat.**
ECKLER, J.R., C.J. REISSIG, R.A. RABIN and R.J.C. WINTER 25
- Rapid eye movement sleep deprivation-induced down-regulation of beta-adrenergic receptors in the rat brainstem and hippocampus.**
PEDRAZZOLI, M. and M.A.C. BENEDITO 31
- Diurnal rhythms in cocaine sensitization and in Period1 levels are common across rodent species.**
AKHISAROGLU, M., R. AHMED, M. KURTUNCU, H. MANEV and T. UZ 37
- Tolerance to response-disruptive effects of cocaine is facilitated by opportunity to respond in the absence of drug.**
MILLER, M.L. and M.N. BRANCH 43
- Development of acute withdrawal during periodic administration of amphetamine in rats.**
WHITE, W., J. FELDON and I.M. WHITE 55
- Individual differences in rats' reactivity to novelty and the unconditioned and conditioned locomotor effects of methamphetamine.**
BEVINS, R.A. and J.L. PETERSON 65
- Towards a topographical model of narghile water-pipe café smoking: a pilot study in a high socioeconomic status neighborhood of Beirut, Lebanon.**
SHIHADDEH, A., S. AZAR, C. ANTONIOS and A. HADDAD 75
- The multiple effects of ketamine on electroencephalographic activity and behavior in WAG/Rij rats.**
MIDZYANOVSKAYA, I.S., D.V. SALONIN, D.Y. BOSNYAKOVA, G.D. KUZNETSOVA
and E.L.J.M. VAN LUIJTELAAR 83
- Disruption of G_{i/o} protein signaling in the nucleus accumbens results in a D1 dopamine receptor-mediated hyperactivity.**
SCHROEDER, J.A., M. HUMMEL and E.M. UNTERWALD 93
- Brain reward deficits accompany naloxone-precipitated withdrawal from acute opioid dependence.**
LIU, J. and G. SCHULTEIS 101
- Cholecystokinin tetrapeptide improves water maze performance of neonatally 6-hydroxydopamine-lesioned young rats.**
REX, A. and H. FINK 109
- Hydroxyzine prevents isolation-induced vocalization in guinea pig pups: comparison with chlorpheniramine and imipip.**
LAMBERTY, Y. and A.J. GOWER 119
- Attenuation of the gerbil writhing response by μ -, κ - and δ -opioids, and NK-1, -2 and -3 receptor antagonists.**
GALLANTINE, E.L. and T.F. MEERT 125
- A potential aphrodisiac for female macaques.**
PERTOVAARA, A., I. LINNANKOSKI, D. ARTCHAKOV, P. RÄMÄ and S. CARLSON 137
- Nonredundant roles for hippocampal and entorhinal cortical plasticity in spatial memory storage.**
HEBERT, A.E. and P.K. DASH 143
- Evaluation of antioxidant and neuroprotective effect of *Ocimum sanctum* on transient cerebral ischemia and long-term cerebral hypoperfusion.**
YANPALLEWAR, S.U., S. RAI, M. KUMAR and S.B. ACHARYA 155
- The effects of cocaine on the rate independent brain stimulation reward threshold in the mouse.**
GILL, B.M., C.M. KNAPP and C. KORNETSKY 165

Operant self-administration of ethanol in C57BL/6 mice lacking β-endorphin and enkephalin.	
HAYWARD, M.D., S.T. HANSEN, J.E. PINTAR and M.J. LOW	171
NMDA-R1 antisense oligodeoxynucleotides modify formalin-induced nociception and spinal c-Fos expression in rat spinal cord.	
LEE, I.-O., R. YUKHANANOV, D.G. STANDAERT and G. CROSBY	183
Histaminergic H₁ and H₂ receptors located within the ventromedial hypothalamus regulate food and water intake in rats.	
MAGRANI, J., E. DE CASTRO E SILVA, B. VARJÃO, G. DUARTE, A.C. RAMOS, R. ATHANAZIO, M. BARBETTA, P. LUZ and J.B. FREGONEZE	189

CONTENTS

VOLUME 79 NUMBER 2 2004

ARTICLES

Analgesic and behavioral effects of amphetamine enantiomers, <i>p</i>-methoxyamphetamine and <i>n</i>-alkyl-<i>p</i>-methoxyamphetamine derivatives.	
BUSTAMANTE, D., G. DÍAZ-VÉLIZ, C. PAEILE, G. ZAPATA-TORRES and B.K. CASSELS	199
Social crowding sensitizes high-responding rats to psychomotor-stimulant effects of morphine.	
XIGENG, Z., L. YONGHUI, L. XIAOJING, X. LIN, W. DONGMEI, L. JIE, Y. XIAOYAN and S. NAN	213
Effects of abused inhalants and GABA-positive modulators in dizocilpine discriminating inbred mice.	
SHELTON, K.L. and R.L. BALSTER	219
Socially mediated alcohol preferences in adolescent rats following interactions with an intoxicated peer.	
FERNÁNDEZ-VIDAL, J.M. and J.C. MOLINA	229
Bone cancer pain model in mice: evaluation of pain behavior, bone destruction and morphine sensitivity.	
VERMEIRSCH, H., R.M. NUYDENS, P.L. SALMON and T.F. MEERT	243
Decrease of immobility behavior in forced-swimming test and immune system enhancing effect of traditional medicine Gamisipjundaebo-tang.	
SHIN, H.-Y., T.-Y. SHIN, S.-W. SEO, H.-J. NA, Y.-T. KWON, B.-K. SONG, E.-J. LEE, Y.-K. KIM, M.-C. HONG, M.-K. SHIN, S.-H. HONG and H.-M. KIM	253
Direct relation between etonitazene dose and response rate: responding under a single FI per session.	
GOMEZ, T.H. and R.A. MEISCH	261
Prevention of diazepam withdrawal syndrome by nifedipine—behavioural and neurochemical studies.	
EL GANOUNI, S., N. HANOUN, C. BONI, A. TAZI, F. HAKKOU and M. HAMON	269
Bidirectional effects of benzodiazepine binding site ligands in the elevated plus-maze: differential antagonism by flumazenil and β-Cct.	
SAVIĆ, M.M., D.I. OBRADOVIĆ, N.D. UGREŠIĆ, J.M. COOK, W. YIN and D.R. BOKONJIĆ	279
Motivation of heroin-seeking elicited by drug-associated cues is related to total amount of heroin exposure during self-administration in rats.	
ZHANG, F., W. ZHOU, S. TANG, M. LAI, H. LIU and G. YANG	291
Anti-inflammatory and anti-hyperalgesic effects of sesquiterpene lactones from Magnolia and Bear's foot.	
FELTENSTEIN, M.W., W. SCHÜHLY, J.E. WARNICK, N.H. FISCHER and K.J. SUFKA	299
Lithium-chloride-induced conditioned taste aversions in the Lewis and Fischer 344 rat strains.	
FOYNES, M.M. and A.L. RILEY	303
α_2-Adrenergic inhibition prevents the accompanied anticonvulsant effect of swim stress on behavioral convulsions induced by lithium and pilocarpine.	
GALIC, M.A., N.M. FOURNIER and L.J. MARTIN	309
Heroin attenuates the negative consequences of cocaine in a runway model of self-administration.	
GUZMAN, D. and A. ETTEMBERG	317
Effects of amphetamine, dexfenfluramine, and diazepam on responding during extinction in nonhuman primates.	
FOLTIN, R.W.	325
Preexposure to MDMA ("Ecstasy") delays acquisition but facilitates MDMA-induced reinstatement of amphetamine self-administration behavior in rats.	
MORLEY, K.C., J.L. CORNISH, K.M. LI and I.S. MCGREGOR	331
Baclofen interactions with nicotine in rats: effects on memory.	
LEVIN, E.D., E. WEBER and L. ICENOGLE	343
Differential effects of naproxen and rofecoxib on the development of hypersensitivity following nerve injury in rats.	
PADI, S.S.V. and S.K. KULKARNI	349
Dopaminergic mechanisms in the conditioned and unconditioned fear as assessed by the two-way avoidance and light switch-off tests.	
REIS, F.L.V., S. MASSON, A.R. DE OLIVEIRA and M.L. BRANDÃO	359

Role of muscarinic and nicotinic cholinergic receptors in an experimental model of epilepsy-induced analgesia. DE FREITAS, R.L., R.C. DE OLIVEIRA, A.D. DE CARVALHO, T.T. FELIPPOTTI, G.S. BASSI, D.H. ELIAS-FILHO and N.C. COIMBRA	367
The effects of angelica essential oil in three murine tests of anxiety. CHEN, S.W., L. MIN, W.J. LI, W.X. KONG, J.F. LI and Y.J. ZHANG.	377
Circulating androgens enhance sensitivity to testosterone self-administration in male hamsters. DIMEO, A.N. and R.I. WOOD	383

CONTENTS

VOLUME 79 NUMBER 3 2004

ARTICLES

Effect of 5-HT_{1B/D} receptor agonist and antagonist administration on motor function in haloperidol and MPTP-treated common marmosets. JACKSON, M.J., G. AL-BARGHOUTHY, R.K.B. PEARCE, L. SMITH, J.J. HAGAN and P. JENNER.	391
Improved cognitive performance in human volunteers following administration of guarana (<i>Paullinia cupana</i>) extract: comparison and interaction with <i>Panax ginseng</i>. KENNEDY, D.O., C.F. HASKELL, K.A. WESNES and A.B. SCHOLEY	401
Recovery of experimental Parkinson's disease with the melatonin analogues ML-23 and S-20928 in a chronic, bilateral 6-OHDA model: a new mechanism involving antagonism of the melatonin receptor. WILLIS, G.L. and A.D. ROBERTSON	413
Increasing the selectivity of the discriminative stimulus effects of Δ^9-tetrahydrocannabinol: complete substitution with methanandamide. ALICI, T. and J.B. APPEL	431
Recent advances in animal models of alcohol craving and relapse. RODD, Z.A., R.L. BELL, H.J.K. SABLE, J.M. MURPHY and W.J. MCBRIDE	439
Chronic cocaine pretreatment facilitates Pavlovian sexual conditioning in male Japanese quail. LEVENS, N. and C.K. AKINS	451
Effects of MDMA administration on scopolamine-induced disruptions of learning and performance in rats. WINSAUER, P.J., M.S. QUINTON, J.R. PORTER, C.B. CORLL, J.M. MOERSCHBAECHER, M.S. DELATTE, S.T. LEONARD and S.B. STROBLE	459
Mechanisms of the anti-inflammatory activity of the leaf extracts of <i>Culcasia scandens</i> P. Beauv (Araceae). OKOLI, C.O. and P.A. AKAH.	473
Effects of morphine on brain-stimulation reward thresholds in young and aged rats. JHA, S.H., C.M. KNAPP and C. KORNETSKY	483
Increased sensitization to morphine-induced oral stereotypy in aged rats. KNAPP, C.M., S.H. JHA and C. KORNETSKY	491
The effect of venlafaxine on behaviour, body weight and striatal monoamine levels on sleep-deprived female rats. DE OLIVEIRA, R.A., G.M.A. CUNHA, K.D.M. BORGES, G.S. DE BRUIN, E.A. DOS SANTOS-FILHO, G.S.B. VIANA and V.M.S. DE BRUIN	499
Reinstatement of nicotine self-administration in rats by presentation of nicotine-paired stimuli, but not nicotine priming. LESAGE, M.G., D. BURROUGHS, M. DUFEK, D.E. KEYLER and P.R. PENTEL	507
Effects of morphine or naloxone on cocaine-induced genital reflexes in paradoxical sleep-deprived rats. ANDERSEN, M.L., R. FRUSSA-FILHO and S. TUFIK	515
Evidence for zolpidem-induced hyperphagia, but not anxiolysis, in a successive negative contrast paradigm. MITCHELL, C.P., M.L. OST and C.F. FLAHERTY	523
Behavioral changes after acetylcholinesterase inhibition with physostigmine in mice. MACH, M., R.D. GRUBBS, W.A. PRICE, S.J. PATON and J.B. LUCOT	533
Role of glutamate ionotropic receptors in the dorsomedial hypothalamic nucleus on anxiety and locomotor behavior. JARDIM, M.C. and F.S. GUIMARÃES	541
Absence seizures in succinic semialdehyde dehydrogenase deficient mice: a model of juvenile absence epilepsy. CORTEZ, M.A., Y. WU, K.M. GIBSON and O.C. SNEAD III	547
Metoclopramide attenuates iminodipropionitrile-induced oxidative stress and neurobehavioral toxicity in rats. AHMAD KHAN, H., S. AL DEEB, K. AL MOUTAERY and M. TARIQ	555
Sex differences in mouse behavior following pyrilamine treatment: role of histamine 1 receptors in arousal. EASTON, A., J. NORTON, A. GOODWILLIE and D.W. PFAFF	563

Estrogen protects against brain lipid peroxidation in ethanol-withdrawn rats. JUNG, M.E., M. REWAL, E. PEREZ, Y. WEN and J.W. SIMPKINS	573
--	-----

CONTENTS

VOLUME 79 NUMBER 4 2004

ARTICLES

Self-injurious behaviour: a comparison of caffeine and pemoline models in rats. KIES, S.D. and D.P. DEVINE	587
In alcohol-treated rats, naloxone decreases extracellular dopamine and increases acetylcholine in the nucleus accumbens: evidence of opioid withdrawal. RADA, P., D.F. JOHNSON, M.J. LEWIS and B.G. HOEBEL	599
Chronic lithium decreases Nurr1 expression in the rat brain and impairs spatial discrimination. AL BANCHABOUCI, M., S. PEÑA DE ORTÍZ, R. MENÉNDEZ, K. REN and C.S. MALDONADO-VLAAR.	607
Ethanol preexposure increases ethanol self-administration in C57BL/6J and DBA/2J mice. CAMARINI, R. and C.W. HODGE	623
Fear conditioning is associated with altered integration of PLC and ERK signaling in the hippocampus. BUCKLEY, C.T. and K.K. CALDWELL	633
Behavioral reactivity to a noradrenergic challenge after chronic oral methylphenidate (Ritalin®) in rats. LEBLANC-DUCHIN, D. and H.K. TAUKULIS	641
Protective effect of chronic ethyl docosahexaenoate administration on brain injury in ischemic gerbils. CAO, D.-H., J.-F. XU, R.-H. XUE, W.-F. ZHENG and Z.-L. LIU.	651
Continuous administration of opioids produces locomotor sensitization. TRUJILLO, K.A., K.S. KUBOTA and K.P. WARMOTH	661
Allotaxis and dysregulation of corticotropin-releasing factor and neuropeptide Y systems: implications for the development of alcoholism. VALDEZ, G.R. and G.F. KOOB	671
Phosphodiesterase inhibition by sildenafil citrate attenuates the learning impairment induced by blockade of cholinergic muscarinic receptors in rats. DEVAN, B.D., D. SIERRA-MERCADO JR., M. JIMENEZ, J.L. BOWKER, K.B. DUFFY, E.L. SPANGLER and D.K. INGRAM	691
Adolescent γ-hydroxybutyric acid exposure decreases cortical N-methyl-D-aspartate receptor and impairs spatial learning. SIRCAR, R. and A. BASAK	701
Thirst changes in offspring of hyperreninemic rat dams. PERILLAN, C., M. COSTALES, F. DIAZ, M. VIJANDE and J. ARGUELLES.	709
Scopolamine during the paradoxical sleep window impairs radial arm maze learning in rats. LEGAULT, G., C.T. SMITH and R.J. BENINGER	715
Memory deficit and reduced anxiety in young adult rats given repeated intermittent MDMA treatment during the periadolescent period. PIPER, B.J. and J.S. MEYER.	723
Melatonin inhibits the development of tolerance to U-50,488H analgesia via benzodiazepine-GABA_Aergic mechanisms. DHANARAJ, E., K.V.S. NEMMANI and P. RAMARAO	733
Handling blocks expression of conditioned place aversion but not conditioned place preference produced by ethanol in mice. BECHTHOLT, A.J., C.M. GREMEL and C.L. CUNNINGHAM.	739
Antiparkinsonian-like effects of <i>Plumbago scandens</i> on tremorine-induced tremors methodology. MORAIS, L.C.S.L., L.J. QUINTANS-JÚNIOR, C.I.F. FRANCO, J.R.G.S. ALMEIDA and R.N. ALMEIDA	745
(+)-Methamphetamine-induced spontaneous behavior in rats depends on route of (+)METH administration. GENTRY, W.B., A.U. GHAFOR, W.D. WESSINGER, E.M. LAURENZANA, H.P. HENDRICKSON and S.M. OWENS	751
Evidence for bidirectional cues as a function of time following treatment with amphetamine: implications for understanding tolerance and withdrawal. BARRETT, R.J., W.F. CAUL and R.L. SMITH	761
Contents of Volume 79	773
Author Index	777
Keyword Index	779