

Curriculum Vitae
October, 2011
Michael Thomas Bardo

ADDRESS

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DEGREES

- B.S. Eastern Illinois University, Charleston, IL 1974
Major: Psychology
M.A. Eastern Illinois University, Charleston, IL 1976
Major: Psychology
Ph.D. Iowa State University, Ames, IA 1980
Major: Psychology
Minor: Statistics

POSITIONS HELD

- 1975-76 Research Assistant, Department of Psychology, Eastern Illinois University, Charleston, IL
1978-79 Instructor, Des Moines Area Community College, Boone, IA
1979 Instructor, Department of Psychology, Drake University, Des Moines, IA
1976-80 Research Assistant, Department of Psychology, Iowa State University, Ames, IA
1980-82 Postdoctoral Research Fellow, Department of Pharmacology, University of Iowa, Iowa City, IA
1982-88 Assistant Professor, Department of Psychology, University of Kentucky, Lexington, KY
1989, 95-96 Visiting Scientist, Department of Anatomy and Neurobiology and Pacific Biomedical Research Center, Bekesy Laboratories, University of Hawaii, Honolulu, HI
1988-94 Associate Professor, Department of Psychology, University of Kentucky, Lexington, KY, Department of Psychology, University of Kentucky, Lexington, KY
1994- Professor, Department of Psychology, University of Kentucky, Lexington, KY, Department of Psychology, University of Kentucky, Lexington, KY
1999-02 Director of Graduate Studies, Department of Psychology, University of Kentucky, Lexington, KY
2001-03 Scientific Director, Center for Prevention Research, University of Kentucky, Lexington, KY
2002-03 Visiting Scientist, Department of Physiology and Neuroscience, Medical University of South Carolina, Charleston, SC

- 2003- Director, Center for Drug Abuse Research Translation (CDART), University of Kentucky, Lexington, KY
- 2005-11 Scientific Advisor, Yaupon Therapeutics Inc., Radnor PA.
- 2008- Faculty Associate, Spinal Cord & Brain Injury Research Center, University of Kentucky, Lexington, KY
- 2010- Special Assistant to the Dean for Translational and Interdisciplinary Research

PHD GRADUATE STUDENTS TRAINED

- 1988 Janet L. Neisewander, Ph.D.
Dissertation Title: "Behavioral and neurochemical effects of chronic opiate antagonist treatment in senescent rats."
Present Position: Professor, Department of Biology, Arizona State University, Tempe, AZ.
- 1992 Shana L. Pack (formerly Bowling), Ph.D.
Dissertation Title: "The effects of environmental enrichment on responsiveness to amphetamine in rats: Neurochemistry and behavior."
Present Position: Core Faculty in the School of Social and Behavioral Sciences, Capella University, Minneapolis, MN.
- 1992 Cynthia A. Crawford, Ph.D.
Dissertation Title: "Age-related behavioral and neurochemical differences in the effect of irreversible antagonism of dopamine receptors in the rat."
Present Position: Professor, Department of Psychology, University of California, San Bernardino, CA.
- 1993 James K. Rowlett, Ph.D.
Dissertation Title: "Locomotor and rewarding effects of the opioid mixed agonist-antagonist buprenorphine assessed with conditioned place preference."
Present Position: Associate Professor of Psychiatry, Department of Psychiatry, Beth Israel Deaconess Medical Center, Harvard Medical School, New England Primate Research Center, Southborough, MA.
- 1994 Nancy A. Honeycutt, Ph.D.
Dissertation Title: "Lateralized function in patients with complex partial seizures of temporal origin."
Present Position: Assistant Professor, Department of Psychiatry, Division of Psychiatric Neuroimaging, Johns Hopkins School of Medicine, Baltimore, MD.
- 1998 Patricia M. Robinet, Ph.D.
Dissertation Title: "The role of dopamine D3 receptors in rotational behavior following a 6-hydroxydopamine lesion of the medial forebrain bundle."
Most Recent Position: Assistant Professor, Department of Psychology, Colby College, Waterville, ME.
- 1999 Jennifer E. Klebaur, Ph.D.
Dissertation Title: "The role of novelty in disruption of amphetamine self-administration."
Present Position: Instructor, Central Piedmont Community College, Charlotte NC
- 2002 Thomas A. Green, Ph.D.

Dissertation Title: “Environmental enrichment and incentive salience factors affecting operant responding for drug and non-drug reinforcers.”

Present Position: Assistant Professor, Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, TX

2004 Brenda J. Gehrke, Ph.D.

Dissertation Title: “Effects of environmental enrichment on methamphetamine-induced neurotoxicity.”

Present Position: Pharmacologist, Division of Drug Oncology Products, Food and Drug Administration, Silver Spring, MD

2005 Emily D. Klein, Ph.D

Dissertation Title: “Cocaine and sucrose cross-sensitization.”

Present Position: Postdoctoral Scholar, The Language Research Center, Department of Psychology, Georgia State University, Atlanta, GA.

2007 Dustin J. Stairs, Ph.D.

Dissertation Title: “Enrichment-induced differences in corticosterone: differential response to amphetamine and glucocorticoid receptor blockade in low dose amphetamine self-administration.”

Present Position: Assistant Professor, Department of Psychology, Creighton University, Omaha, NE.

2008 Nichole M. Neugebauer, Ph.D.

Dissertation Title: “The Effects of Lobeline on Methamphetamine-induced Conditioned Place Preference and Dopaminergic Alterations in the Nucleus Accumbens Shell.”

Present Position: Postdoctoral Scholar, Department of Psychiatry, Yale University, New Haven, CT.

2010 Thomas E. Wooters, Ph.D.

Dissertation Title: “The Effects of Oral Methylphenidate on Cocaine-induced Hyperactivity and Cocaine Self-administration.”

Present Position: Contract Medical Writer, Targacept, Inc., Winston-Salem, NC.

2010 Cassandra D. Gipson, Ph.D.

Dissertation Title: “A Translational Model of Mood-Based Rash Action.”

Present Position: Postdoctoral Scholar, Department of Neurosciences, Medical University of South Carolina, SC

POSTDOCTORAL SCHOLARS TRAINED

1993-96 Rick A. Bevins, Ph.D. from University of Massachusetts

Present Position: Professor, Department of Psychology, University of Nebraska, Lincoln, NE.

1999-02 Anthony S. Rauhut, Ph.D. from University of Massachusetts

Present Position: Associate Professor, Department of Psychology, Dickinson College, Carlisle, PA.

1999-03 Steven B. Harrod, Ph.D. from Kent State University

Present Position: Assistant Professor, Department of Psychology, University of

South Carolina, Columbia, SC.

- 2002-04 Mary E. Cain, Ph. D. from University of Vermont
Present Position: Associate Professor, Department of Psychology,
 Kansas State University, Manhattan, KS
- 2006-07 Jennifer L. Perry, Ph.D. from University of Minnesota
Present Position: Visiting Assistant Professor, Kalamazoo College, Kalamazoo,
 MI
- 2008-10 Julie Marusich, Ph.D. from University of Florida
Present Position: Research Pharmacologist, RTI International, Research
 Triangle Park NC

RESEARCH SCIENTIST TRAINED

- 2005-07 Shafiqur Rahman, Ph.D. from Memorial University of Newfoundland (CANADA)
Present Position: Associate Professor, College of Pharmacy, South Dakota
 State University, Brookings SD

GRADUATE STUDENTS PRESENTLY IN TRAINING

- 2005- Andrew Meyer
 2009- Kristin Alvers
 2009- Justin Yates

POSTDOCTORAL SCHOLARS PRESENTLY IN TRAINING

- 2008- Joshua Beckmann (Ph.D. from Southern Illinois University)
 2010- Carrie Wilmouth (Ph.D. from Binghamton University)

EXTRAMURAL GRANTS AND CONTRACTS AS PRINCIPAL INVESTIGATOR (Total Award)

- NIH F32 DA05195, postdoctoral trainee on individual national research service award, G. F. Gebhart (Sponsor), "Opiate receptor ontogeny and morphine-induced effects," 1981-1983, \$38,080.
- NIH R03 DA03487, principal investigator for small research grant, "Classical conditioning of drug reward," 1984-1985, \$21,601.
- Bristol-Myers Company, principal investigator for contract grant, "Reward and aversion with non-benzodiazepine anxiolytic drugs," 1985-1986, \$7,705.
- NIH R01 DA03460, principal investigator for individual research grant, "Chronic naltrexone treatment and opiate action," 1985-1988, \$241,886.
- NIH P50 DA05312, principal investigator for Project 1 in Center for Prevention Research (R. Clayton, PI), "Drug abuse prevention: A lifecourse perspective," 1987-1992, \$254,970.
- NIH R01 DA06924, principal investigator for individual research grant, "Novelty, dopamine and drug reward," 1992-1995, \$356,811.
- NIH R01 DA07746, principal investigator for individual research grant, "Taste cues in morphine conditioning," 1992-1995, \$260,726.
- NIH P50 DA05312, principal investigator for Project 1 in center grant, Center for Prevention Research (R. Clayton, PI), "Drug abuse prevention: A lifecourse perspective II," 1992-1995, \$616,615.

NIH P50 DA05312, principal investigator for Project 1 in center grant, Center for Prevention Research (R. Clayton, PI), "Drug abuse prevention: A lifecourse perspective III," 1995-1998, \$660,750.

NIH R01 DA07746, principal investigator for individual research grant, "Taste cues in morphine conditioning," 1997-2000, \$257,036.

NIH R01 DA12964, principal investigator for individual research grant, "Novelty, dopamine and response to amphetamine," 2000-2003, \$623,246.

NIH P50 DA05312, principal investigator for Project 1 in center grant, Center for Prevention Research (M. Bardo, PI, effective 2003), "Drug abuse prevention: A lifecourse perspective IV," 2001-2007, \$969,271.

NIH R41 DA16521, principal investigator for small business research grant, "STTR: Nornicotine enantiomers and nicotine self-administration," 2003-04, \$59,682.

NIH U19 DA17548, principal investigator for Project 3 in cooperative agreement grant (L. Dwoskin, PI), "Development of Novel Treatments for Nicotine Addiction," 2003-08, \$1,029,562.

NIH R01 DA12964, principal investigator for individual research grant, "Novelty, dopamine and response to amphetamine," 2003-2008, \$1,472,400.

NIH R42 DA16521, principal investigator for small business research grant, "STTR: Nornicotine as a treatment for nicotine addiction," 2005-2008, \$914,898.

Targacept Inc., principal investigator, "Targacept contract," 2007-2008, \$150,000.

Targacept Inc., principal investigator, "Targacept contract #2," 2008, \$150,000

US Worldmeds LLC, principal investigator "Effect of lofexidine on norepinephrine levels," 2008, \$9,700.

NIH P50 DA05312, principal investigator and director for center grant, "CDART-Center for Drug Abuse Research Translation," 2007-2012, \$7,396,789.

NIH R01 DA12964, principal investigator for individual research grant, "Novelty, dopamine and response to amphetamine," 2009-2014, \$1,846,885.

EXTRAMURAL GRANTS AND CONTRACTS AS CO-INVESTIGATOR OR MENTOR (Total Award)

NIH F32 DA05623, R. Bevins (Postdoctoral Trainee), "Morphine conditioning of activity using taste cues," 1995-1997, \$52,300.

NIH R01 DA08645, L. Dwoskin (PI), "Nornicotine contribution to the CNS effect of nicotine," 1996-2001, \$534,011.

Tobacco and Health Research Institute, State of Kentucky, L. Dwoskin (PI), "CNS pharmacology of tobacco alkaloids," 1999-2000, \$80,000.

Pharmacia Corporation, L. Dwoskin (PI), "Preclinical studies to determine the utility of reboxetine as a smoking cessation pharmacotherapy," 2000-2001, \$64,000.

Tobacco and Health Research Institute, State of Kentucky, L. Dwoskin (PI), "CNS pharmacology of tobacco alkaloids," 2000-2001, \$64,601.

NIH F32 DA06018, S. Harrod (Postdoctoral Trainee), "Lobeline analogs and amphetamine self-administration," 2000-2002, \$69,932.

NIH F31 DA06093, T. Green (Predoctoral Trainee), "Environmental enrichment and nicotine reinforcement," 2000-2002, \$52,717.

Tobacco and Health Research Institute, State of Kentucky, L. Dwoskin (PI), "CNS pharmacology of tobacco alkaloids," 2001-2002, \$50,000.

NIH R01 DA13519, L. Dwoskin (PI), "Development of novel therapies for methamphetamine abuse," 2000-2004, \$1,100,860.

NIH F32 DA16013, M. Cain (Postdoctoral Trainee), "The amygdala and amphetamine self-administration," 2002-2004, \$81,390.

- NIH F31 DA15974, B. Gehrke (Predoctoral Trainee), "Enrichment and methamphetamine neurotoxicity," 2002-2004, \$58,754.
- NIH F31 DA18476, E. Klein (Predoctoral Trainee), "Cocaine and sucrose cross-sensitization in rats," 2004-2006, \$47,044.
- NIH R01 DA13519, L. Dvoskin (PI), "Development of novel therapies for methamphetamine abuse," 2005-2010, \$2,822,079.
- NIH F31 DA023853, T. Wooters (Predoctoral Trainee), "Reinforcing and neurochemical effects of cocaine in a rodent model of ADHD," 2008-10, \$58,608.
- NIH F31 DA028018. C. Gipson (Predoctoral Trainee). "A translational model of mood-based drug abuse." 2010-12, \$74,484.

PROFESSIONAL MEMBERSHIPS

Society for Neuroscience
 Association for Psychological Science (Fellow)
 Midwestern Psychological Association
 Society for Prevention Research
 College on Problems of Drug Dependence
 New York Academy of Sciences
 APA Division 28 (affiliate member)

PEER REVIEW EXPERIENCE

- | | |
|------------------|--|
| 1987 | NIDA Contract Review Meeting, ad hoc member |
| 1987 | NIDA Special Biomedical Research Review Committee II, ad hoc member |
| 1988, 2000, 2002 | NSF Proposal Review, ad hoc member |
| 1994, 2000 | The Wellcome Trust, England, ad hoc member |
| 2000 | NIH, NIDA Behavioral-Science Track Award for Research Transition (B/START), ad hoc member |
| 2001 | NIH, NIAAA Special Emphasis Panel for training grants, ad hoc member |
| 2001, 2004 | NIH, NIDA Cutting-Edge Basic Research Award (ZDA1), ad hoc member |
| 2001 | NIH, NIDA Special Emphasis Panel (SSS-C 04), ad hoc member |
| 2002 | NIH, NIDA Imaging-Science Track Award for Research Transition (I/START), ad hoc member |
| 2003-
1999-03 | Philip Morris External Research Program, ad hoc member
NIH, Biobehavioral and Behavioral Processes 1 (BBBP-1), regular member |
| 2004-06 | NIH, Biobehavioral Regulation, Learning and Ethology (BRLE), regular chair |
| 2006 | NIH, NIDA Centers Review Committee (ZDA1-RXL-E 02), ad hoc member |
| 2006 | NIH, NIDA Special Emphasis Panel on Epigenetics of Addiction (ZDA1 RXL-E), ad hoc member |
| 2007-08 | NIH, NIDA Special Emphasis Panel on Extinction of Drug Seeking (ZDA1 RXL-E 23), ad hoc chair |
| 2007-present | NIH, NIDA Centers Review Committee (ZDA1 RXL-E 02), regular member |
| 2008 | NIH, Training in Neurosciences IRG (ZRG1 F02a), ad hoc member |
| 2008-present | Lytmos Group, James and Esther King Biomedical Research Program, ad hoc grant reviewer |
| 2009, 2010 | CIHR (Canada), Team Grant and Catalyst Grant Review, ad hoc member |

2009	NIH, NIDA Special Emphasis Panel on Interactions between Physical Activity and Drug Abuse (ZDA1 GXM-A 05), ad hoc chair
2009	NIH, NIAAA Review of P30 and RC2 applications (ZAA1 DD 02), ad hoc member
2010	NIH, National Cooperative Drug Discovery and Development Group applications (ZMH1 ERB-C 03S), ad hoc member
2010	NIH, Drug Discovery Panel applications (ZRG1 MDCN-C 56), ad hoc member
2010	NIH, Program Project Special Review, Neurotoxicology and Alcohol (NAL) Study Section (ZRG1 IFCN-H40P), ad hoc chair
2011	NIH, Special Emphasis Panel on New Molecular Entities to Treat Substance Use Disorders (ZDA1 JXR-D 06), ad hoc member
2010-12	NIH, College of CSR Reviewers, regular member

Ad hoc reviewer for the following journals:

Pharmacology, Biochemistry and Behavior
Psychobiology
Physiology and Behavior
Life Sciences
Brain Research Bulletin
Psychopharmacology
Learning and Motivation
Journal of Neuroscience Methods
Neuropsychopharmacology
Psychological Reports
Behavioural Brain Research
European Journal of Pharmacology
Journal of Personality and Social Psychology: Personality Processes and Individual Differences
Journal of Pharmacology and Experimental Therapeutics
Science
Alcoholism: Clinical and Experimental Research
Experimental and Clinical Psychopharmacology
Behavioural Pharmacology
Neuroscience Letters
Journal of Abnormal Psychology
Journal of Neuroscience
Learning & Behavior
Biological Psychiatry
Drug and Alcohol Dependence

REGIONAL, NATIONAL AND INTERNATIONAL SERVICE COMMITTEES

2003-06	Program Committee, Midwestern Psychological Association
2004-	Scientific Advisory Board, Integrative Neuroscience Initiative on Alcoholism (INIA), Scripps Research Institute, Dr. George Koob, Consortium Coordinator
2005	Program Integrating Committee, Society for Prevention Research
2007-10	Travel Awards & Mentoring Committee, College on Problems of Drug Dependence
2008-	Nominations Committee, Society for Prevention Research
2010	International Scientific Programme Committee, Translational Research in

- 2011- Psychiatry Conference, Innsbruck Austria
 External Advisory Board, Integrative Predoctoral Training in Drug Abuse
 Research, Indiana University, Drs. George Rebec and Peter Finn, Co-Directors
- 2011- Board of Directors, College on Problems of Drug Dependence

AWARDS

- 1988 Charter Fellow, American Psychological Society
 2005 Distinguished University Scientist, Kentucky Academy of Science
 2006 University Research Professorship, University of Kentucky
 2009 Charter Fellow, Midwestern Psychological Association
 2011 William B. Sturgill Award for graduate mentoring, University of Kentucky

EDITORIAL BOARD

- 2007- Drug Design, Development and Therapy

PATENT

U.S. Patent Number 5,776,957, issued on July 7, 1998, for invention titled "Nor nicotine Enantiomers for Use as a Treatment for Dopamine Related Conditions and Disease States." Co-inventors, L. Dwoskin and P. Crooks.

PUBLICATIONS

1. Bardo, M. T., and Hughes, R. A. (1978). Shock-elicited flight response in chickens as an index of morphine analgesia. Pharmacology, Biochemistry, and Behavior, *9*, 147-149.
2. Bardo, M. T., and Hughes, R. A. (1979). Exposure to a nonfunctional hot plate as a factor in the assessment of morphine analgesia and tolerance in rats. Pharmacology, Biochemistry, and Behavior, *10*, 481-485.
3. Bardo, M. T., Wellman, P. J., and Hughes, R. A. (1981). The role of hot plate and general environmental stimuli in morphine analgesic tolerance. Pharmacology, Biochemistry and Behavior, *14*, 757-760.
4. Bardo, M. T., Bhatnagar, R. K., and Gebhart, G. F. (1981). Opiate receptor ontogeny and morphine-induced effects: influence of chronic footshock stress in preweanling rats. Developmental Brain Research, *1*, 487-495.
5. Bardo, M. T., and Hughes, R. A. (1981). Single-dose tolerance to morphine-induced analgesic and hypoactive effects in infant rats. Developmental Psychobiology, *14*, 415-424.
6. Hughes, R. A., and Bardo, M. T. (1981). Shuttlebox avoidance by rats using white noise intensities from 90-120 DB SPL as the UCS. Journal of Auditory Research, *21*, 109-118.
7. Bardo, M. T., and Gunion, M. W. (1982). Within- and between-subjects differences in the effect of morphine in mice. Psychological Reports, *50*, 567-573.
8. Bardo, M. T., Bhatnagar, R. K., Gebhart, G. F., and Hughes, R. A. (1982). Opiate receptor development in midbrain and forebrain of posthatch chicks. Developmental Brain Research, *3*, 668-673.
9. Bardo, M. T., Bhatnagar, R. K., and Gebhart, G. F. (1982). Differential effects of chronic morphine and naloxone on opiate receptors, monoamines, and morphine-induced behaviors in preweanling rats. Developmental Brain Research, *4*, 139-147.

10. Bardo, M. T., Bhatnagar, R. K., and Gebhart, G. F. (1982). An improved filtration procedure for measuring opiate receptors in small regions of rat brain. Journal of Neurochemistry, *39*, 1751-1754.
11. Bardo, M. T., Bhatnagar, R. K., and Gebhart, G. F. (1983). Age-related differences in the effect of chronic administration of naloxone on opiate binding in rat brain. Neuropharmacology, *22*, 453-461.
12. White, S. R., Bhatnagar, R. K., and Bardo, M. T. (1983). Norepinephrine depletion in the spinal cord gray matter of rats with experimental allergic encephalomyelitis. Journal of Neurochemistry, *44*, 1771-1773.
13. Bardo, M. T., Bhatnagar, R. K., and Gebhart, G. F. (1983). Chronic naltrexone increases opiate binding in brain and produces supersensitivity to morphine in the locus coeruleus of the rat. Brain Research, *289*, 223-234.
14. Bardo, M. T., Miller, J. S., and Neisewander, J. L. (1984). Conditioned place preference with morphine: the effect of extinction training on the reinforcing CR. Pharmacology, Biochemistry and Behavior, *21*, 545-549.
15. Bardo, M. T., Miller, J. S., and Risner, M. E. (1984). Opiate receptor supersensitivity produced by chronic naloxone treatment: dissociation of morphine-induced antinociception and conditioned taste aversion. Pharmacology, Biochemistry and Behavior, *21*, 591-597.
16. Bardo, M. T., and Risner, M. E. (1985). Biochemical substrates of drug abuse. In S. Maisto and M. Galizio (Eds.), Determinants of substance abuse: biological, psychological and environmental factors (pp. 65-99). New York: Plenum Press.
17. Bardo, M. T., Schmidt, R. H., and Bhatnagar, R. K. (1985). Effects of morphine on sprouting of locus coeruleus fibers in the neonatal rat. Developmental Brain Research, *22*, 161-168.
18. Miller, J. S., McCoy, D. F., Kelly, K. S., and Bardo, M. T. (1986). A within-event analysis of taste-potentiated odor and contextual aversions. Animal Learning and Behavior, *14*, 15-21.
19. Bardo, M. T., Neisewander, J. L., and Miller, J. S. (1986). Repeated testing attenuates conditioned place preference with cocaine. Psychopharmacology, *89*, 239-243.
20. Bardo, M. T., and Neisewander, J. L. (1986). Single-trial conditioned place preference using intravenous morphine. Pharmacology, Biochemistry and Behavior, *25*, 1101-1105.
21. Miller, J. S., McCoy, D. F., Kelly, K. S., and Bardo, M. T. (1987). Within-compound associations between taste and contextual stimuli. Bulletin of the Psychonomic Society, *25*, 124-125.
22. Bardo, M. T., and Neisewander, J. L. (1987). Chronic naltrexone supersensitizes the reinforcing and locomotor-activating effects of morphine. Pharmacology, Biochemistry and Behavior, *28*, 267-273.
23. Neisewander, J. L., and Bardo, M. T. (1987). Expression of morphine-conditioned hyperactivity is attenuated by naloxone and pimozide. Psychopharmacology, *93*, 314-319.
24. Bardo, M. T., Neisewander, J. L., and Ennis, R. B. (1988). Chronic treatment with naltrexone enhances morphine-stimulated dopamine neurotransmission: neurochemical and behavioral evidence. Neuropharmacology, *27*, 1103-1109.
25. Isaac, W. L., Nonneman, A. J., Neisewander, J. L., Landers, T., and Bardo, M. T. (1989). Prefrontal cortex lesions differentially disrupt cocaine reinforced conditioned place preference, but not conditioned taste aversion. Behavioral Neuroscience, *103*, 345-355.
26. Neisewander, J. L., Nonneman, A. J., McDougall, S. A., and Bardo, M. T. (1989). Up-regulation of opiate receptors following chronic naloxone treatment in aged rats.

- Neurobiology of Aging, 10, 55-58.
27. Bardo, M. T., Neisewander, J. L., and Pierce, R. C. (1989). Novelty-induced place preference behavior in rats: Effects of opiate and dopaminergic drugs. Pharmacology, Biochemistry and Behavior, 32, 683-689.
 28. Neisewander, J. L., Rowlett, J. K., Nonneman, A. J., and Bardo, M. T. (1989). Up-regulation of opiate receptors following chronic naltrexone treatment in mature and aged male and female rats. Progress in Clinical and Biological Research, 292, 471-476.
 29. McDougall, S. A., Neisewander, J. L., Bardo, M. T., and Zolman, J. F. (1989). Ontogenetic changes in (³H)-spiroperidol binding sites in posthatch chick brain. Life Sciences, 44, 1515-1520.
 30. Neisewander, J. L., Rowlett, J. K., Nonneman, A. J., and Bardo, M. T. (1989). Up-regulation of opiate receptors following chronic naltrexone treatment in mature and aged male and female rats. In D. A. Butterfield (Ed.), Biological and synthetic membranes, (pp. 471-476). New York: Alan Liss.
 31. Houdi, A. A., Bardo, M. T., and Van Loon, G. R. (1989). Opioid mediation of cocaine-induced hyperactivity and reinforcement. Brain Research, 497, 195-198.
 32. Neisewander, J. L., McDougall, S. A., Bowling, S. L., and Bardo, M. T. (1989). Conditioned taste aversion and place preference with buspirone and gepirone. Psychopharmacology, 100, 485-490.
 33. Neisewander, J. L., Pierce, R. C., and Bardo, M. T. (1990). Naloxone enhances the expression of morphine-induced conditioned place preference. Psychopharmacology, 100, 201-205.
 34. Pierce, R. C., Crawford, C. A., Nonneman, A. J., Mattingly, B. A. and Bardo, M. T. (1990). Effect of forebrain dopamine depletion on novelty-induced place preference behavior in rats. Pharmacology, Biochemistry and Behavior, 36, 321-325.
 35. Miller, J. S., Kelly, K. S., Neisewander, J. L., McCoy, D. F., and Bardo, M. T. (1990). Conditioning of morphine-induced taste aversion and analgesia. Psychopharmacology, 101, 472-480.
 36. Bardo, M. T., Bowling, S. L. and Pierce, R. C. (1990). Changes in locomotion and dopamine neurotransmission following amphetamine, haloperidol and exposure to novel environmental stimuli. Psychopharmacology, 101, 338-343.
 37. Bardo, M. T., Lacy, M., and Mattingly, B. A. (1990). Effects of apomorphine on novelty-induced place preference behavior in rats. Pharmacology, Biochemistry and Behavior, 37, 89-93.
 38. Rowlett, J. K., Mattingly, B. A., and Bardo, M. T. (1991). Neurochemical and behavioral effects of acute and chronic treatment with apomorphine in rats. Neuropharmacology, 30, 191-197.
 39. Bardo, M. T., and Mueller, C. W. (1991). Sensation seeking and drug abuse prevention from a biological perspective. In L. Donohew, H. Sypher, and W. Bukoski (Eds.), Persuasive communication and drug abuse prevention (pp. 195-207). Hillsdale, NJ: Lawrence Erlbaum Assoc.
 40. McDougall, S. A., and Bardo, M. T. (1991). Ontogenetic changes in dopaminergic pre and postsynaptic elements in rat brain: effects of quinpirole and sulpiride. Neuropharmacology, 30, 531-534.
 41. Bardo, M. T., and Hammer, R. P. (1991). Autoradiographic localization of dopamine D₁ and D₂ receptors in rat nucleus accumbens: resistance to differential rearing conditions. Neuroscience, 45, 281-290.
 42. Pierce, R. C., Rowlett, J. K., Bardo, M. T., and Rebec, G. V. (1991). Chronic ascorbate potentiates the effects of chronic haloperidol on behavioral supersensitivity but not D₂ dopamine receptor binding. Neuroscience, 45, 373-378.

43. Blanchard, D. C., Cholvanich, P., Blanchard, R. J., Clow, D. W., Hammer, R. P., Rowlett, J. K., and Bardo, M. T. (1991). Serotonin, but not dopamine, metabolites are increased in selected brain regions of subordinate male rats in a colony environment. Brain Research, *568*, 61-66.
44. Rowlett, J. K., Pedigo, N. W., and Bardo, M. T. (1991). Catalepsy produced by striatal microinjections of the D₁ dopamine receptor antagonist SCH23390 in neonatal rats. Pharmacology, Biochemistry and Behavior, *40*, 829-834.
45. Crawford, C. A., McDougall, S. A., Rowlett, J. K., and Bardo, M. T. (1992). Depletion of dopamine binding sites and changes in dopamine and dihydroxyphenylacetic acid levels in 17- and 90-day-old rat striatum after irreversible receptor antagonism. Neuroscience Letters, *137*, 265-269.
46. Randall, C. K., Kraemer, P. J., Dose, J. M., Carbary, T. J., and Bardo, M. T. (1992). The biphasic effect of morphine on odor conditioning in neonatal rats. Developmental Psychobiology, *25*, 355-364.
47. Rowlett, J. K., Mattingly, B. A., and Bardo, M. T. (1993). Neurochemical correlates of behavioral sensitization following repeated apomorphine treatment: assessment of the role of D₁ dopamine receptor stimulation. Synapse, *14*, 160-168.
48. Bardo, M. T., Bowling, S. L., Robinet, P. M., Rowlett, J. K., Lacy, M., and Mattingly, B. A. (1993). Role of dopamine D₁ and D₂ receptors in novelty-maintained place preference. Experimental and Clinical Psychopharmacology, *1*, 101-109.
49. Bowling, S. L., Rowlett, J. K., and Bardo, M. T. (1993). The effect of environmental enrichment on amphetamine-stimulated locomotor activity, dopamine synthesis and dopamine release. Neuropharmacology, *32*, 885-893.
50. Randall, C. K., Kraemer, P. J., Valone, J. M., and Bardo, M. T. (1993). Odor conditioning with morphine: conditioned preference, aversion and analgesia. Psychobiology, *21*, 215-220.
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- $\alpha 6\beta 2^*$ nicotinic receptor antagonist and preclinical candidate treatment for nicotine abuse. British Journal of Pharmacology, *163*, 346-357. [PMCID: PMC3087136].
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 184. Bardo, M. T., Milich, R. and Fishbein, D. (2011). Future directions for research on inhibition and drug abuse. In: M. T. Bardo, D. Fishbein and R. Milich (Eds.), Inhibitory Control and Drug Abuse Prevention: From Research to Translation (pp. 317-329). Springer, New York, NY.
 185. Wooters, T. E., Dwoskin, L. P. and Bardo, M. T. (2011). Discriminative stimulus effects of NMDA, AMPA and mGluR5 glutamate receptor ligands in methamphetamine-trained rats. Behavioural Pharmacology, *22*, 516-52.
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 189. Charnigo, R., Kryscio, R., Bardo, M. T., Lynam, D. and Zimmerman, R. S. (2011). Joint modeling of longitudinal data in multiple behavior change. Evaluation & the Health Professions, *34*, 181-200. PMC Journal – In Process
 190. Horton, D. B., Siripurapu, K. B., Norrholm, S. D., Culver, J. P., Hojahmat, M., Beckmann, J. S., Harrod, S. B., Deaciuc, A. G., Bardo, M. T., Crooks, P. A. and Dwoskin, L. P. (2011). Meso-Transdiene analogs inhibit vesicular monoamine transporter-2 function and methamphetamine-evoked dopamine release. Journal of Pharmacology and Experimental Therapeutics, *336*, 940-951. [PMCID: PMC3061531]
 191. Marusich, J. A., Darna, M., Charnigo, R. J., Dwoskin, L. P. and Bardo, M. T. (2011). A multivariate assessment of individual differences in sensation seeking and impulsivity as predictors of amphetamine self-administration and prefrontal dopamine function in rats. Experimental and Clinical Psychopharmacology, *19*, 275-284. [PMCID: PMC3164505].
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 193. Bardo, M. T. and Pentz, M. A. (in press). Translational research. In: H. Cooper (Ed.) APA Handbook of Research Methods in Psychology. American Psychological Association, Washington, DC
 194. Bardo, M. T. (in press). The mesolimbic dopamine reward system and drug addiction. P. Miller (Ed.), Encyclopedia of Addictive Behaviors (Chapter 143). Elsevier, New York, NY
 195. Gipson, C. D., Yates, J. R., Beckmann, J. S., Marusich, J. A., Zentall, T. R. and Bardo, M. T. (in press). Social facilitation of d-amphetamine self-administration in rats. Experimental and Clinical Psychopharmacology. PMC Journal – In Process
 196. Marusich, J. A., McCuddy, T., Beckmann, J. S., Gipson, C. D. and Bardo, M. T. (in

- press). Strain differences in self-administration of methylphenidate and sucrose pellets in a rat model of ADHD. Behavioural Pharmacology. PMC Journal – In Process
197. Beckmann, J. S., Denehy, E. D., Zheng, G., Crooks, P. A., Dwoskin, L. P. and Bardo, M. T. (in press). The effect of a novel VMAT2 inhibitor, GZ-793A, on methamphetamine reward in rats. Psychopharmacology. PMC Journal – In Process
198. Beckmann, J. S. and Bardo, M. T. (in press). Environmental enrichment reduces attribution of incentive salience to a food-associated stimulus. Behavioural Brain Research. PMC Journal – In Process
199. Gipson, C. D., Beckmann, J. S., Adams, Z. W., Marusich, J. A., Nesland, T. O., Yates, J. R., Kelly, T. H. and Bardo, M. T. (in press). A translational behavioral model of mood-based impulsivity: implications for substance abuse. Drug and Alcohol Dependence. PMC Journal – In Process

EDITED BOOKS

- R. A. Bevins and M. T. Bardo (2004), Motivational factors in the etiology of drug abuse. University of Nebraska Press, Lincoln, NE.
- M. T. Bardo, D. Fishbein and R. Milich (in press), Inhibitory control and drug abuse prevention: from research to translation. Springer, New York, NY

INVITED SEMINARS

- 1982 University of Iowa, Department of Pharmacology, Iowa City, IA.
- 1983 NIDA Addiction Research Center, Lexington, KY.
- 1989 University of Hawaii, Department of Anatomy and Reproductive Biology, Honolulu, HI.
- 1992 National Institute on Drug Abuse, Rockville, MD.
- 1993 Indiana University, Program in Neural Science, Bloomington, IN.
- 1999 University of Cincinnati, Department of Psychology, Cincinnati, OH.
- 2001 Indiana University Purdue University Indianapolis, Department of Psychology, Indianapolis, IN.
- 2004 University of Pennsylvania, Treatment Research Center, Department of Psychiatry, Philadelphia, PA.
- 2005 University of Minnesota, Tobacco Use Research Center, Minneapolis, MN.
- 2005 Duke University, Duke Transdisciplinary Prevention Research Center, Durham, NC
- 2005 Morehead State University, Department of Psychology, Morehead KY
- 2005 Rutgers, The State University of New Jersey, Center of Alcohol Studies, Piscataway NJ
- 2006 Medical College of Georgia, Department of Physiology, Augusta GA
- 2006 Centre College, Department of Psychology, Danville KY
- 2006 Concordia University, Center of Studies in Behavioral Neurobiology, Montreal Canada
- 2007 Pennsylvania State University, Department of Biobehavioral Health, State College PA
- 2008 Kansas University, Department of Pharmacology and Toxicology, Lawrence KS
- 2008 University of Cincinnati, Neuroscience Graduate Program, Cincinnati OH
- 2008 University of South Dakota, Sanford School of Medicine, Vermillion SD
- 2008 University of Illinois, Neuroscience Program, Champaign IL
- 2009 Wake Forest University, Department of Physiology and Pharmacology, Winston-Salem NC
- 2010 University of Texas Medical Branch, Department of Pharmacology and Toxicology, Galveston TX

SYMPOSIA AND INVITED CONFERENCE PRESENTATIONS

- 1987 Organizer and moderator. "Recent advances in psychopharmacology: Opioids and behavior." Midwestern Psychological Association, Chicago, IL.
- 1991 Organizer and moderator. "Psychobiological approaches to studying drug abuse." Midwestern Psychological Association, Chicago, IL.
- 1997 Organizer and moderator. "Applications of neuroscience to drug abuse prevention research." Society for Prevention Research, Baltimore, MD.
- 1997 Invited panel speaker. "Stimuli conditioned to drugs." Society for Stimulus Properties of Drugs, New Orleans, LA.
- 1998 Invited paper. "Psychobiology of novelty- and drug-seeking behaviors." Midwestern Psychological Association, Chicago, IL.
- 1998 Invited panel speaker. "Reducing drug-taking behavior with novel stimuli: evidence from laboratory animals and implications for prevention research." Society for Prevention Research, Park City, UT.
- 1999 Invited panel speaker. "Novel approaches to smoking cessation." Winter Conference on Brain Research, Snowmass, CO.
- 1999 Invited panel speaker. "Pre-clinical, clinical and preventive perspectives on protection and liability to substance abuse and mental disorders." Society for Prevention Research, New Orleans, LA.
- 1999 Invited symposium speaker. "Emerging biological targets for the treatment of nicotine dependence." College on Problems of Drug Dependence, Acapulco, Mexico.
- 1999 Invited symposium speaker. "Environmental variables in the response to addictive drugs" Behavioral Pharmacology Society and European Behavioural Pharmacology Society, Boston, MA.
- 2000 Invited symposium speaker. "Non-traditional models of drug reinforcement: conditioned place preference." The International Study Group Investigating Drugs as Reinforcers (ISGIDAR), San Juan, Puerto Rico.
- 2002 Invited symposium speaker and organizer. "Biological Connection Between Drug and Novelty Seeking Motivational Systems." 50th annual Nebraska Symposium on Motivation, Lincoln, NE.
- 2003 Invited symposium respondent. "Risk-taking in Adolescence: What Changes and Why." New York Academy of Sciences, New York, NY.
- 2003 Invited symposium speaker. "Sensation-seeking as a risk factor in drug abuse: from neuroscience to prevention science." College on Problems of Drug Dependence, San Juan, Puerto Rico.
- 2005 Invited symposium speaker. "Developmental factors predicting drug abuse vulnerability: contribution of a rodent model." Youth with Multiple Problem Behaviors: A Translational Perspective, Bethesda, MD.
- 2005 Organizer and moderator. "Translating basic research from neural, behavioral, and social sciences to prevention: challenges and opportunities." Preconference satellite workshop at College on Problems of Drug Dependence, Orlando, FL.
- 2005 Invited symposium speaker. "Enriched environments and drug abuse vulnerability." European Behavioural Pharmacology Society, Barcelona, Spain.
- 2006 Invited symposium discussant. "Psychopharmacology of nicotine." Midwestern Psychological Association, Chicago, IL.
- 2006 Invited symposium discussant. "Intergrating neurobiological measures into prevention research." Society for Prevention Research, San Antonio, TX.
- 2007 Invited symposium discussant. "The motivational impact of nicotine and its role in tobacco use." 55th annual Nebraska Symposium on Motivation, Lincoln, NE.
- 2007 Invited symposium speaker. "Screening molecules in addiction-related neurobehavioral paradigms." Preconference satellite workshop at College on Problems of Drug

- Dependence, Quebec City, CANADA.
- 2008 Invited symposium speaker. "Individual differences in novelty seeking and stimulant reward: environmental and genetic influences." Preconference satellite workshop at International Behavioural and Neural Genetics Society, Portland,OR.
- 2008 Invited symposium speaker. "Novelty preference predicts amphetamine use in rats." International Behavioural and Neural Genetics Society, Portland,OR.
- 2008 Invited symposium speaker. "The effect of environmental enrichment on drug seeking behavior." Special NIDA meeting on Can Physical Activity and Exercise Prevent Drug Abuse?, Bethesda, MD.
- 2008 Invited symposium speaker. "Connections between neurobiology and drug abuse prevention." Reducing Substance use Initiation among Adolescents: Bringing Science Down to Earth. Duke University Center for Child and Family Policy, Durham NC.
- 2008 Keynote Address. "Individual differences in neurobehavior and drug abuse prevention." Indianapolis Chapter of the Society for Neuroscience, Indianapolis, IN.
- 2009 Invited symposium speaker. "Neural mechanisms involved in individual differences in drug abuse vulnerability: implications for prevention." Ninth Annual Guze Symposium on Alcoholism. Washington University School of Medicine, St. Louis, MO.
- 2009 Organizer and moderator. "Neural and behavioral mechanisms of inhibitory control: implications for drug abuse prevention." Society for Prevention Research, Washington, DC.
- 2010 Invited roundtable speaker. "Using genetic and other neurobiological markers to identify children and adolescents at risk: forging new prevention science frontiers or walking on thin ice?" Society for Prevention Research, Denver, CO.
- 2010 Organizer and moderator. "Cells to society: filling the gap between neural and prevention sciences." Society for Prevention Research, Denver, CO.