

CURRICULUM VITAE

Mitchell Jon Picker, Ph.D.
Professor
Department of Psychology and Curriculum in Neurobiology
University of North Carolina at Chapel Hill
Chapel Hill, NC, USA
September, 2008

Current Mailing Address:

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Education:

- Ph.D. 1984 Experimental Psychology, Western Michigan University
Dissertation Title: Effects of anticonvulsant medications on learning and memory
- M.A. 1981 Experimental Psychology, Western Michigan University
Master's Title: Choice as a dependent measure in autoshaping: Sensitivity to frequency and duration of food presentation
- B.S. 1978 Psychology, Pennsylvania State University
Honor's Thesis Title: Self-injurious behavior

Academic Honors and Awards:

- 2008 Departmental Recognition for Excellence in Undergraduate Teaching
- 2008 William C. Friday Award for Excellence in Teaching
- 2007 Departmental Recognition for Excellence in Undergraduate Teaching
- 2006 Departmental Recognition for Excellence in Undergraduate Teaching
- 2005 Departmental Recognition for Excellence in Undergraduate Teaching
- 2003 Western Michigan University Distinguished Alumnus Award
- 2000 University of North Carolina Graduate Teaching Distinguished Award Nominee
- 1997 Fellow of the American Psychological Association
- 1994 Departmental Recognition for Excellence in Undergraduate Teaching
- 1993-94 College of Arts and Science Foundation Achievement Grant
- 1993 University of North Carolina Biomedical Research Award
- 1992-93 University of North Carolina Junior Faculty Development Award
- 1991-96 National Institute on Drug Abuse FIRST Award
- 1991 Departmental Recognition for Excellence in Undergraduate Teaching
- 1990 Departmental Recognition for Excellence in Undergraduate Teaching
- 1990-91 University of North Carolina Biomedical Research Award

1986 Departmental Recognition for Excellence in Undergraduate Teaching
 1982-83 Western Michigan University College of Arts and Science Fellowship
 1981 Western Michigan University, Graduate College Academic Achievement Award
 1981-84 Western Michigan University Doctoral Associateship
 1981-82 Western Michigan University Office of Instructional Development Award
 1976-78 Academic Honors, Penn State University

Teaching, Research and Work Experience:

2006 Acting Program Director: Biological Psychology Program, Department of Psychology, University of North Carolina at Chapel Hill

1998 - present Professor: Department of Psychology, University of North Carolina at Chapel Hill

1996 - 2003 Director of Research Services: Department of Psychology, University of North Carolina at Chapel Hill

1993 - 1998 Associate Professor: Department of Psychology, University of North Carolina at Chapel Hill

1990 - 1993 Assistant Professor: Department of Psychology, University of North Carolina at Chapel Hill

1990 - present Faculty: Curriculum in Neurobiology, University of North Carolina at Chapel Hill

1985 - 1990 Research Assistant Professor: Department of Psychology, University of North Carolina at Chapel Hill

1984 - 1985 Research Associate: Department of Psychology, Western Michigan University

1982 - 1983 Predoctoral Research Assistant: Department of Psychology, Western Michigan University

1980 - 1982 Instructor: Department of Psychology, Western Michigan University

1979 - 1982 Teaching Assistant: Department of Psychology, Western Michigan University

1979 Behavior Therapist: Psychological Services Component, Division of Western Michigan University

1978 Teaching Assistant: Department of Psychology, Penn State University

Courses Taught:

Learning and Behavior
 Introduction to Psychology
 Experimental Analysis of Behavior
 Drugs and Human Behavior
 Biological Basis of Behavior I: Sensory Information Processing (team taught)
 Biological Basis of Behavior II: Learning and Memory (team taught)
 Clinical Psychopharmacology
 Psychological Application of Drugs
 Seminar in Biological Psychology I (team taught)
 Seminar in Biological Psychology II (team taught)
 Behavioral Pharmacology

Applications of Experimental Psychology to Health Research (team taught)
Drug Tolerance and Sensitization

Committee and Service Activities:

Psychology Department

Acting Director: Biological Psychology Program (2006)
Animal Care Committee (member: 1988 - 1993, chair: 1994 - 2002, member: 2003 - present)
Director of Research Services (1996 - 2003)
Colloquium Committee (member: 1992)
Undergraduate Honors Committee (member: 1990)
Faculty mentor for the SPGRE Program (1991)
Psychology Liaison to University Physical Plant (1990 - 1991)
Merit Evaluation Review Committee (member: 1996, 2002, 2008)
Chair's Advisory Committee (member: 1996 - 2003)
Personnel Committee (member: 1995 - present)
Graduate Student Admissions Committee: Biological Program (member: 1989 - present)
Biological Program Seminar Organizer (1986 - 1988)
Strategic Planning Committee (member: 1996 - 1997)
Psychology 50 Planning Committee (chair: 1997)
Stephenson Faculty Awards Committee (chair: 1997 - 2002; member, 2006)
Harriet Rheingold Undergraduate Awards Committee (chair: 1997 - 2001)
Harriet Rheingold Graduate Awards Committee (chair: 1998 - 2001)
Baughman Dissertation Award Committee (chair: 2000 - 2003, member: 2007, 2008)
Departmental Workload Committee (member: 2000, chair: 2001 - 2002)
Teaching Load Committee (member: 2004)
Program Directors Committee (member: 2006)
Faculty Teaching Mentor (2004, 2005, 2006, 2007)
Grades Appeal Committee (member: 2007)
Graduate Education Committee (member: 2006)
Department Advisory Committee (alternate: 2007)
Promotion and Review Committees
Assistant Professor: first term review (member: 1998, 2002, 2006)
Associate Professor: tenure review (member: 1999, 2000, 2003, 2007)
Full Professor (chair: 2005; member: 2000, 2001, 2006, 2007)
Faculty Search Committees
Social Psychology (member: 2000)
Biological Psychology (member: 2001)
Social Psychology (member: 2001)
Cognitive Psychology (member: 2002)
Psychology / Genomics (member: 2002)
Biological Psychology (member: 2004)

University of North Carolina at Chapel Hill

NIDA Training Grant Advisory Committee (member: 1990 - present)
Department of Laboratory Animal Medicine Restructuring Committee (member: 1996 - 1997)
Neurobiology Written Exams Committee (member: 2002, 2008)
University Institutional Animal Care and Use Committee (member: 1997 - present)
Laboratory Inspection Team (member: 1997 - present)
Research Facilities Inspection Team (member: 1997 - present)

Subcommittee Investigating Allegations of Animal Concerns (member: 1999)
Subcommittee on Rodent Analgesics (member: 2000)
Subcommittee Investigating Allegations of Animal Concerns (member: 2000 - 2001)
Subcommittee Investigating Allegations of Misconduct (member: 2002)
Subcommittee on Violations and Sanctions (chair: 2002)
Subcommittee on Animal Concerns (member: 2004 - present)
Subcommittee on Animal Protocols (member: 2007)

National Study Sections, Grant Review Boards, Consults:

Agency: Oak Ridge Associated Universities
Years: 2004, 2007 (grant reviewer)

Agency: U.S. Department of Veterans Affairs: Neurobiology Merit Review Subcommittee
Years: 2005, 2006 (grant reviewer)

Agency: Alexa MDA Pharmaceuticals, Palo Alto, CA
Years: 2002 (consultant)

Agency: U.S. Department of Veterans Affairs: Alcohol and Drug Dependence
Years: 2001 (grant reviewer)

Agency: U.S. Department of Veterans Affairs: Neurobiology Subcommittee
Years: 1998 (grant reviewer)

Agency: Alzheimer's Disease and Related Disorders Association
Years: 1997 (grant reviewer)

Agency: National Institute on Drug Abuse: Basic Behavioral Sciences Review Committee
Years: 1996 (grant reviewer)

Agency: National Institute on Drug Abuse: Clinical and Behavioral Research Review Committee
Years: 1993 - 1995 (grant reviewer)

Professional Memberships (past and present):

American Psychological Association
Association for Behavior Analysis
Foundation for Biomedical Research
Society for the Stimulus Properties of Drugs
North Carolina Association for Biomedical Research
College on Problems of Drug Dependence

Research Support:

Extramural Grants and Contracts:

Position: Principal Investigator
Grant Title: Biobehavioral Actions of Partial Mu Agonists
Agency: National Institute on Drug Abuse
Years: 1996 - 1999
Renewed: 2000 - 2006

Position: Co-Principal Investigator (P.I. D. T. Lysle)
Grant Title: Opioid-Induced Immune Alterations: Sex Differences

Agency: National Institute on Drug Abuse
Years: 2003 - 2008

Position: Principal Investigator
Subcontract (P.I. J. Lewis)

Grant Title: Discovery of New Treatments for Drug Abuse
Agency: National Institute on Drug Abuse
Years: 2002 - 2005

Position: Principal Investigator
Grant Title: Biobehavioral Actions of Partial Opioid Agonists
Agency: National Institute on Drug Abuse
Years: 1991 - 1996

Position: Co-Principal Investigator (P.I. L.A. Dykstra)
Grant Title: Opioid Analgesics: Pharmacological and Behavioral Factors
Agency: National Institute on Drug Abuse
Years: 1988 - 1993
Renewed: 1994 - 1999
Renewed: 2000 - 2004

Position: Co-Principal Investigator (P.I. M. Bronson)
Grant Title: Benzodiazepines: Tolerance and Acute/Chronic Dependence
Agency: National Institute on Drug Abuse
Years: 1991 - 1993

Position: Co-Principal Investigator (P.I. L.A. Dykstra)
Subcontract with Research Triangle Institute
Grant Title: Pharmacokinetics of Psychoactive Drugs
Agency: National Institute on Drug Abuse
Years: 1987 - 1990

Position: Principal Investigator
Grant Title: Behavioral Actions of Neuroleptic Drugs
Agency: National Institutes of Mental Health
Years: 1987 - 1989

Position: Co-Principal Investigator (P.I. A. D. Poling)
Grant Title: Behavioral Actions of Antiepilepsy Drugs
Agency: National Institutes of Mental Health
Years: 1984 - 1986

Training Grants:

Position: Member
Grant Title: Predoctoral Training in Research on Drug Abuse
Agency: National Institute on Drug Abuse
Years: 1990 - 1995
Renewed: 1995 - 2000
Renewed: 2000 - 2005
Renewed: 2005 - 2010

Position: Member
Grant Title: Predoctoral Training in the Neurosciences

Agency: National Institutes of Health
Years: 1994 - 1999
Renewed: 1999 - 2003
Renewed: 2003 - 2008

Intramural Grants:

Position: Principal Investigator
Grant Title: Analgesic Effects of Opioids
Agency: University Research Council
Years: 1998 - 2000

Position: Principal Investigator
Grant Title: Behavioral Pharmacology of Partial Opioid Agonists
Agency: Biomedical Research Award
Years: 1993

Position: Principal Investigator
Grant Title: Behavioral and Pharmacological Actions of Nalorphine
Agency: Junior Faculty Development Award
Years: 1992 - 1993

Position: Principal Investigator
Grant Title: Behavioral Pharmacology of Opioids
Agency: Biomedical Research Award
Years: 1990 - 1991

Position: Principal Investigator
Grant Title: Effects of Antipsychotic Drugs on Short-term Memory
Agency: University Research Council
Years: 1987 - 1988

Sponsorship (mentor) of Predoctoral Fellowships:

Fellow: Jolan M. Terner
Grant Title: Influence of Gonadal Hormones on Opioid Antinociception
Agency: National Institute on Drug Abuse
Years: 2003 - 2005

Fellow: Andrew C. Barrett
Grant Title: Sex Differences in Opioid Antinociception
Agency: National Institute on Drug Abuse
Years: 2002 - 2003

Fellow: Charlie D. Cook
Grant Title: Rat Strain-Dependent Antinociception
Agency: National Institute on Drug Abuse
Years: 1998 - 2000

Fellow: Mark A. Smith
Grant Title: Tolerance and Cross-Tolerance to the Effects of Opioids
Agency: National Institute on Drug Abuse
Years: 1996 - 1998

Fellow: Drake Morgan
Grant Title: Examination of Individual Sensitivity to Opioid Effects
Agency: National Institute on Drug Abuse
Years: 1995 - 1998

Journal Reviewer (reviewer, editorial board):

Journal of Pharmacology and Experimental Therapeutics	Psychopharmacology
Journal of Neuroscience	Life Sciences
Experimental and Clinical Psychopharmacology	Bioelectromagnetics
Pharmacology Biochemistry and Behavior	Behavioral Neuroscience
Neurobiology of Learning and Memory	Drug and Alcohol Dependence
European Journal of Pharmacology	Neuropharmacology
Neuroscience and Biobehavioral Reviews	Psychobiology
Journal of the Experimental Analysis of Behavior	Behavioural Pharmacology
Clinical and Experimental Pharmacology and Physiology	Brian Research
Obesity Research	Neurobiology of Aging

Book Reviewer:

Harcourt Brace
Sage Publications
Prentice Hall
Holt, Rinehart and Winston, Inc.
John Wiley & Sons

Professional References:

Donald Lysle, Ph.D.
Kenan Distinguished Professor
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Alan D. Poling, Ph.D.
Professor
Associate Dean in the College of Arts and Sciences
Department of Psychology
Western Michigan University
Kalamazoo, MI 49008
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James P. Cleary, Ph.D.
Professor, Center for Cognitive Sciences, University of Minnesota

Associate Research Director GRECC (11G)
Veterans Administration Medical Center
Minneapolis, MN 55417
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Supervision of Doctoral Dissertations (current position):

Lisa M. Lomas (Ph.D., 2007): Sex differences in NMDA-opioid receptor interactions in phasic and tonic models of pain.

Jolan M. Turner (Ph.D., 2005): Influence of gonadal hormones and rat strain on sex differences in nociception and opioid antinociception in rats.

Current Position: Senior Medical Writer, Access Medical Group, Chicago, IL

Andrew C. Barrett (Ph.D., 2003): Factors influencing sex differences in nociception and opioid antinociception. (APA Division 28 Psychopharmacology Dissertation Award)

Current Position: Medical Science Liaison, Cephalon Pharmaceuticals, Raleigh, NC

Charlie D. Cook (Ph.D., 2000): Modulatory actions of dopamine D2-like agonists on the effects of mu and kappa opioids.

Current Position: Medical Neuroscience Liaison, Eli Lilly Pharmaceuticals, Baltimore, MD

Mark A. Smith (Ph.D., 1998): Tolerance and cross-tolerance to the behavioral effects of opioids in butorphanol-treated rats.

Current Position: Associate Professor, Department of Psychology, Davidson College, Davidson, NC

Drake Morgan (Ph.D., 1998): A behavioral and pharmacological analysis of opioids with varying degrees of intrinsic efficacy at the μ opioid receptor. (APA Division 28 Psychopharmacology Dissertation Award)

Current Position: Assistant Professor, Department of Psychiatry, University of Florida, Gainesville, FL

Pamela Doty (Ph.D., 1991): Behavioral interactions between delta-9-tetrahydrocannabinol, phencyclidine and ethanol in rats.

Current Position: Clinical Program Director, Schwarz Biosciences, Research Triangle Park, NC

Doctoral Dissertation Committees (1990 - present)

Matthew McMurray
Dayna Hayes
Timothy Saurer
Steven Heyman
Ryan Lanier
Andrew Barrett*
Sondra Mattox
Mark Smith*
Christy Carter
Ann Perkins
Libby Boyles
Angela Allen
Steven Negus

Jeremy Day
Carolyn Kanagy
Dennis Sparta
Jon Fee
Jolan Turner*
Drake Morgan*
Derrick Neurenberg
Kimberly Brownley
Jason Arnt
Micheaux Kilpatrick
Pamela Doty*
Jennifer North
Alison Oliveto

Beth Mechlin
Lisa Lomas*
Brad Fischer
Jay Elliot
Charlie Cook*
Sliman Bensmaia
Ursula Sweeney
Paul Gendreau
Debbie Lubin
Kelly Powell
Sherry Broadwell
Rebecca Craft

* denotes chair

Masters Committees (1990 - present)

Emily Lowery	Alison Wagner	Stephanie Traina
Matthew McMurray	Jeremy Day	Brad Fischer
Timothy Saurer	Beth Mechlin	Jameeliah Lane
Ryan Lanier	Jon Fee	Dennis Sparta
Jolan Turner*	Jay Elliot	Andrew Barrett*
Debbie Lubin	Charlie Cook*	Yu-Pang Lin
Katie Hoffman	Richard Roop	Lance Brown
Andrew Johnson	Cassidy Zammit	

* denotes chair

Publications:

- Fischer, B.D., Miller, L.L., Henry, F.E., Picker M.J. and Dykstra, L.A. (2008). Increased efficacy of μ -opioid agonist-induced antinociception by metabotropic glutamate receptor antagonists: Comparison with (-)-6-phosphonomethyl-deca-hydroisoquinoline-3-carboxylic acid. Psychopharmacology, 198: 271-278.
- Lomas, L.M., Turner, J.M. and Picker, M.J. (2008). Sex differences in NMDA enhancement of morphine antihyperalgesia in a capsaicin model of persistent pain: Comparison with two models of acute pain. Pharmacology Biochemistry and Behavior, 89: 127-136.
- Fischer, B.D., Zimmerman, E.I., Picker M.J. and Dykstra, L.A. (2008). Effects of morphine and metabotropic glutamate receptor antagonist mixtures on schedule-controlled responding and thermal nociception. Journal of Pharmacology and Experimental Therapeutics, 324: 732-739.
- Fee, J.R., Sparta, D.R., Picker, M.J. and Thiele T.E. (2007). Corticotropin releasing factor (CRF)-1 receptor antagonist, CP-154,526, blocks the expression, but not acquisition, of ethanol-induced behavioral sensitization. Neuroscience, 150: 14-21.
- Lomas, L.M., Barrett, A.C., Turner, J.M., Lysle, D.T. and Picker, M.J. (2007). Sex differences in the potency of κ opioids and mixed-action opioids against capsaicin-induced hyperalgesia in rats. Psychopharmacology, 191: 273-285.
- Fee, J.R., Knapp, D.J., Sparta, D.R., Breese, G.R., Picker, M.J. and Thiele, T.E. (2006). Involvement of protein kinase A in ethanol-induced locomotor activity and sensitization. Neuroscience, 140: 21-31.
- Turner, J.M., Lomas, L.M., Barrett, A.C., Negus, S.S. and Picker, M.J. (2006). Influence of ultra-low doses of naltrexone on enhancement of morphine antinociception and attenuation in the development of morphine tolerance in male and female rats of four strains. Pain, 122: 90-101.
- Elliott, J.C., Picker, M.J., Sparrow, A.J. and Lysle, D.T. (2006). Dissociation between sex differences in the immunological, behavioral, and physiological effects of κ - and δ -opioids. Psychopharmacology, 185: 66-75.
- Turner, J.M., Lomas, L.M., Lewis, J.W., Husbands, S.M. and Picker, M.J. (2005). Effects of the long-lasting κ opioid 2-(3,4-dichlorophenyl)-N-methyl-N-[1S-1-(3-isothiocyanatophenyl)-2-(1-pyrrolidinyl) ethyl] acetamide (DIPPA) in a drug discrimination and warm

- water tail-withdrawal procedure. Behavioural Pharmacology, 16: 665-670.
- Turner, J.M., Lomas, L.M. and Picker, M.J. (2005). Influence of estrous cycle phase and gonadal hormone depletion on nociception and opioid antinociception in female rats of four strains. Journal of Pain, 6: 372-383.
- Lomas, L.M. and Picker, M.J. (2005). Behavioral assessment of temporal summation in the rat: Sensitivity to sex, opioids and modulation by NMDA receptor antagonists. Psychopharmacology, 180: 84-94.
- Fee, J.R., Sparta, D.R., Knapp, D.J., Breese, G.R., Picker, M.J. and Thiele, T.E. (2004). Predictors of ethanol consumption RII β knockout mice: Assessment of anxiety and alcohol-induced sedation. Alcoholism: Clinical and Experimental Research, 28: 1459-1468.
- Walker, E.A., Picker, M.J., Granger A. and Dykstra, L.A. (2004). Effects of opioids in morphine-treated pigeons trained to discriminate morphine, the low-efficacy agonist nalbuphine, and saline. Journal of Pharmacology and Experimental Therapeutics, 310: 150-158.
- Turner, J.M., Lomas, L.M., Smith, E.S., Barrett, A.C. and Picker, M.J. (2003). Pharmacogenetic analysis of sex differences in opioid antinociception in rats. Pain, 106: 381-391.
- Elliot, J.C., Picker, M.J., Nelson, C.J., Carrigan, K.A. and Lysle, D.T. (2003). Sex differences in opioid-induced enhancement of contact hypersensitivity: Involvement of gonadal hormones. Journal of Investigative Dermatology, 121: 1053-1059.
- Barrett, A.C., Smith, E.S. and Picker, M.J. (2003). Capsaicin-induced hyperalgesia and mu opioid-induced antihyperalgesia in male and female rats. Journal of Pharmacology and Experimental Therapeutics, 307: 237-245.
- Barrett, A.C., Smith E.S. and Picker, M.J. (2003). Use of irreversible antagonists to determine the relative efficacy of μ opioids in a pigeon drug discrimination procedure: Comparison of β -funaltrexamine and clocinnamox. Journal of Pharmacology and Experimental Therapeutics, 305: 1061-1070.
- Selley, D.E., Herbert J.T., Morgan D., Cook, C.D., Picker M.J. and Sim-Selley L.J. (2003). Effect of strain and sex on mu opioid receptor-mediated G-protein activation in rat brain. Brain Research Bulletin, 60: 201-208.
- Turner, J.M., Barrett, A.C., Cook C.D. and Picker, M.J. (2003). Sex and strain differences in the antinociceptive effects of (-)-pentazocine: Comparison to morphine and spiradoline using a thermal nociceptive assay. Behavioural Pharmacology, 14: 77-86.
- Barrett, A.C., Smith, E.S. and Picker, M.J. (2002). Sex-related differences in mechanical nociception and antinociception produced by μ - and κ -opioid receptor agonists in rats. European Journal of Pharmacology, 452: 163-173.
- Turner, J.M., Barrett, A.C., Grossell, E. and Picker, M.J. (2002). Influence of gonadectomy on the antinociceptive effects of opioids in male and female rats. Psychopharmacology, 163: 183-193.
- Barrett, A.C., Cook, C.D., Turner, J.M., Roach, E.L., Syvanthong C. and Picker M.J. (2002). Sex and rat strain determine differences in sensitivity to κ opioid-induced antinociception. Psychopharmacology, 160: 170-181.
- Barrett, A.C., Cook, C.D., Turner, J.M., Craft, R.M. and Picker M.J. (2001). Importance of sex

- and relative efficacy at the μ opioid receptor on the development of tolerance and cross-tolerance to the antinociceptive effects of opioids. Psychopharmacology, 158: 154-164.
- Barrett, A.C., Morgan, D., Izenwasser, S. and Picker, M.J. (2001). Cocaine-like discriminative stimulus effects and [3 H] dopamine uptake inhibition by selected partial opioid agonists in the rat. Behavioural Pharmacology, 12: 225-236.
- Walker E.A., Picker, M.J. and Dykstra, L.A. (2001). Three-choice discrimination in pigeons is based on relative efficacy differences among opioids. Psychopharmacology, 155: 389-396.
- Cook, C.D., Barrett, A.C., Syvanthong, C. and Picker, M.J. (2000). The dopamine D3/2 agonist 7-OH-DPAT modulates the development of morphine tolerance but not dependence. Psychopharmacology, 152: 93-104.
- Cook, C.D., Barrett, A.C., Syvanthong, C. and Picker, M.J. (2000). Modulatory effects of dopamine D3/2 agonists on kappa opioid-induced antinociception and diuresis in the rat. Psychopharmacology, 152: 14-23.
- Cook, C.D., Barrett, A.C., Roach, E.L., Bowman, J.R. and Picker, M.J. (2000). Sex-related differences in the antinociceptive effects of opioids: Importance of rat genotype, nociceptive stimulus intensity and efficacy at the μ opioid receptor. Psychopharmacology, 150: 430-442.
- Picker, M.J., Allen, R.M., Morgan, D., Levine, A.S., O'Hare, E. and Cleary, J.P. (1999). Effects of neuropeptide Y on the antinociceptive and discriminative stimulus properties of morphine. Pharmacology Biochemistry and Behavior, 64: 161-164.
- Cook, C.D., Rodefer, J. and Picker, M.J. (1999). Selective attenuation of the antinociceptive effects of μ opioid agonists by the putative dopamine D3 agonist (\pm)-7-OH-DPAT. Psychopharmacology, 144: 239-247.
- Walker, E.A., Hawkins, E.R., Tiano, M.J., Picker, M.J. and Dykstra, L.A. (1999). Discriminative stimulus effects of nalbuphine in nontreated and morphine-treated pigeons. Pharmacology Biochemistry and Behavior, 64: 445-448.
- Walker, E.A., Tiano, M.J., Benyas, S.I., Dykstra, L.A. and Picker, M.J. (1999). Naltrexone and β -funaltrexamine antagonism of the antinociceptive and response rate-decreasing effects of morphine, dezocine and *d*-propoxyphene. Psychopharmacology, 144: 45-53.
- Morgan, D., Cook, C.D. and Picker, M.J. (1999). Sensitivity to the discriminative stimulus and antinociceptive effects of μ opioids: Role of rat strain, stimulus intensity and intrinsic efficacy at the μ opioid receptor. Journal of Pharmacology and Experimental Therapeutics, 289: 965-975.
- Morgan, D., Cook, C.A., Smith, M.A. and Picker, M.J. (1999). An examination of the interactions between the antinociceptive effects of morphine and various μ opioids: Role of intrinsic efficacy and stimulus intensity. Anesthesia and Analgesia, 88: 407-413.
- Smith M.A., Barrett, A.C. and Picker, M.J. (1999). Antinociceptive effects of opioids following acute and chronic administration of butorphanol: Influence of stimulus intensity and relative efficacy at the mu receptor. Psychopharmacology, 143: 261-269.
- Morgan, D. and Picker, M.J. (1998). The irreversible antagonist beta-funaltrexamine differentiates the discriminative stimulus effects of opioids with high and low efficacy at the μ opioid receptor. Psychopharmacology, 140: 20-28.

- Smith, M.A. and Picker, M.J. (1998). Tolerance and cross-tolerance to the response rate-suppressing effects of mu and kappa opioids in butorphanol-treated rats. Influence of maintenance dose and relative efficacy at the mu receptor. Psychopharmacology, 140: 57-68.
- Picker, M.J. and Cook, C.D. (1998). Delta opioid-like discriminative stimulus effects of mu opioids in pigeons discriminating the delta opioid agonist BW373U86 from saline. Behavioural Pharmacology, 9: 319-328.
- Picker, M.J. (1998). Drug discrimination history: Pigeons trained to discriminate opioids with activity at different receptor types. Experimental and Clinical Psychopharmacology, 6: 139-148.
- Cook, C. D. and Picker, M.J. (1998). Dopaminergic activity and the discriminative stimulus effects of the mu opioid butorphanol: Attenuation by the D3 agonist (\pm)-7-OH-DPAT and the importance of training dose. Psychopharmacology, 136: 59-69.
- Picker, M.J. (1997). Discriminative stimulus effects of the mixed-opioid agonist/antagonist dezocine: Cross-substitution by mu and delta opioid agonists. Journal of Pharmacology and Experimental Therapeutics, 283: 1009-1117.
- Picker, M.J. and Cook, C.D. (1997). Discriminative stimulus effects of opioids in pigeons trained to discriminate fentanyl, bremazocine and water: Evidence of pharmacological selectivity. Behavioural Pharmacology, 8: 160-173.
- Smith, M.A., Pitts, R.C. and Picker, M.J. (1997). Tolerance and cross-tolerance to the accuracy- and response rate-decreasing effects of various mu opioids in rats responding under a fixed-consecutive-number schedule. Drug and Alcohol Dependence, 46: 19-30.
- Pitts, R.C., West, J.P., Morgan, D., Dykstra, L.A. and Picker, M.J. (1996). Opioids and rate of positively reinforced behavior: I. Differential antagonism by naltrexone. Behavioural Pharmacology, 7: 205-215.
- Pitts, R.C., West, J.P., Hapke, D.M., Morgan, D., Dykstra, L.A. and Picker, M.J. (1996). Opioids and rate of positively reinforced behavior: II. Antagonism by β -funaltrexamine. Experimental and Clinical Psychopharmacology, 4: 389-395.
- Picker, M.J., Mathewson, C. and Allen, R.M. (1996). Opioids and rate of positively reinforced behavior: III. Antagonism by the long-lasting kappa antagonist norbinaltorphimine (nor-BNI). Behavioural Pharmacology, 7: 495-504.
- Picker, M.J., Benyas, S., Horwitz, J.A., Thompson, K., Mathewson, C. and Smith, M. A. (1996). Discriminative stimulus effects of butorphanol: Influence of training dose on the substitution patterns produced by mu, kappa and delta opioid agonists. Journal of Pharmacology and Experimental Therapeutics, 279: 1130-1141.
- Negus, S.S., Morgan, D. Cook, C.D. and Picker, M.J. (1996). Effects of the delta opioid agonist BW373U86 in pigeons trained to discriminate fentanyl, bremazocine and water in a three-choice drug discrimination procedure. Psychopharmacology, 126: 199-205.
- Morgan, D. and Picker, M.J. (1996). Contribution of individual differences to the discriminative stimulus, antinociceptive and rate-decreasing effects of mu opioids: Importance of the opioids relative efficacy at the mu receptor. Behavioural Pharmacology, 7: 261-275.
- Hughes, C.E., Dykstra, L.A. and Picker, M.J. (1996). Behavioral tolerance and cross-tolerance to the response rate-decreasing effects of mu opioids in rats. Behavioural Pharmacology,

7: 228-236.

- Negus, S.S. and Picker, M.J. (1996). BW373U86, a non-peptidic, systemically-active delta opioid agonist. Central Nervous System Drug Reviews, 2: 52-74.
- Hughes, C.E., Habash, T., Dykstra, L.A. and Picker, M.J. (1996). Discriminative-stimulus effects of morphine in combination with α - and β -noradrenergic receptor agonists and antagonists. Pharmacology Biochemistry and Behavior, 53: 979-986.
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