

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.
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Associate Dean in the College of Arts and Sciences
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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
clear006@emn.edu

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.
- Terner, 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.
- Terner, 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.
- Terner, 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.
- Terner, 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., Terner, 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., Terner, 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.
- Morgan, D. and Picker, M.J. (1995). Discriminative stimulus effects of the 5HT1A agonist 8-OH-DPAT: Attenuation by mu but not kappa opioids. Psychopharmacology, 122: 336-345.
- Hughes, C.E., Picker, M.J. and Dykstra, L.A. (1995). Tolerance and cross-tolerance to the rate-decreasing effects of mu opioids in morphine-maintained squirrel monkeys. Behavioural Pharmacology, 6: 776-784.
- Smith, M.A. and Picker, M.J. (1995). Examination of the kappa agonist and antagonist properties of opioids in a rat drug discrimination procedure opioids: influence of training dose and intrinsic efficacy. Behavioural Pharmacology, 6: 703-717.
- Picker, M.J. (1995). Assessment of the kappa agonist and antagonist effects of mixed action opioids, mu opioids and a delta opioid in pigeons. Experimental and Clinical Psychopharmacology, 3: 240-251.
- Doty, P., Dykstra, L.A. and Picker, M.J. (1994). Discriminative stimulus properties of phencyclidine: Pharmacologically specific interactions with delta-9- and delta-8-tetrahydrocannabinol. Drug and Alcohol Dependence, 35: 151-158.
- Powell, K.R., Picker, M.J. and Dykstra, L.A. (1994). Serotonin involvement in the discriminative stimulus effects of mu and kappa opioids in rats. Behavioural Pharmacology, 5: 255-264.
- Picker, M.J. (1994). Discriminative stimulus and response rate-decreasing effects of kappa opioids: Antagonism by naloxone. Life Science, 54: 1767-1775.
- Picker, M.J. (1994). Kappa agonist and antagonist effects of mixed action opioids in a pigeon drug discrimination procedure. Journal of Pharmacology and Experimental Therapeutics, 268: 1190- 1198.
- Mattox, A.J., Picker, M.J. and Dykstra, L.A. (1994). Pharmacological analysis of the rate-decreasing effects of mu and kappa opioids in pigeons. Psychopharmacology, 113: 457-462.
- Picker, M.J., Smith, M.A. and Morgan, D. (1994). Assessment of the relative intrinsic efficacy of meperidine and profadol in a pigeon drug discrimination procedure: Relevance to partial substitution patterns. Behavioural Pharmacology, 5: 61-70.
- Picker, M.J., Yarbrough, J., Hughes, C.E., Smith, M.A., Morgan, D. and Dykstra, L.A. (1993). Agonist and antagonist effects of mixed action opioids in the pigeon drug discrimination procedure: Role of training dose, intrinsic efficacy and inter-animal differences. Journal of Pharmacology and Experimental Therapeutics, 266: 756-767.
- Picker, M.J. and Negus, S.S. (1993). Drugs and stimulus control: Generalization, discrimination and threshold procedures. In F. van Haaren (ed.), Techniques in the Behavioral and Neural Sciences: Methods in Behavioral Pharmacology. (pp. 117 -145) Amsterdam, Netherlands:

Elsevier.

- Bronson, M.E., Lin, Y-P., Burchett, K., Picker, M.J. and Dykstra, L.A. (1993). Serotonin involvement in the discriminative stimulus effects of kappa opioids in pigeons. Psychopharmacology, 111: 69-77.
- Picker, M.J., Craft, R.M., Negus, S.S., Powell, K.R., Mattox, S.R., Jones, S.R., Hargrove, B.K. and Dykstra, L.A. (1992). Intermediate efficacy mu opioids: Examination of their morphine-like stimulus effects and response rate-decreasing effects in morphine-tolerant rats. Journal of Pharmacology and Experimental Therapeutics, 263: 668-681.
- Doty, P., Dykstra, L.A. and Picker, M.J. (1992). Delta-9-tetrahydrocannabinol interactions with phencyclidine and ethanol: Effects on accuracy and rate of responding. Pharmacology Biochemistry and Behavior, 43: 61-70.
- Dykstra, L.A., Doty, P., Johnson, B.A. and Picker, M.J. (1992). Discriminative stimulus properties of cocaine, alone and in combination with buprenorphine, morphine and naltrexone. Drug and Alcohol Dependence, 30: 227-234.
- Picker, M.J. and Yarbrough, J. (1991). Cross-tolerance and enhanced sensitivity to the response rate-decreasing effects of opioids with varying degrees of efficacy at the mu receptor. Psychopharmacology, 105: 459-466.
- Oliveto, A. H., Picker, M.J. and Dykstra, L.A. (1991). Acute and chronic morphine administration: Effects of mixed-action opioids in rats and squirrel monkeys responding under a schedule of food presentation. Journal of Pharmacology and Experimental Therapeutics, 257: 8-18.
- Picker, M.J. (1991). Discriminative stimulus properties of (+)- and (-)-N-allylnormetazocine: The role of training dose in the stimulus substitution patterns produced by PCP/sigma and mixed action opioid compounds. Behavioural Pharmacology, 2: 497-511.
- Negus, S.S., Picker, M.J. and Dykstra, L.A. (1991). Interactions between the discriminative stimulus effects of mu and kappa opioids in the squirrel monkey. Journal of Pharmacology and Experimental Therapeutics, 256: 149-158.
- Picker, M.J., Negus, S.S. and Powell, K.R. (1990). Differential cross-tolerance to mu and kappa opioid agonists in morphine-tolerant rats responding under a schedule of food presentation. Psychopharmacology, 103: 129-135.
- Negus, S.S., Picker, M.J. and Dykstra, L.A. (1990). Interactions between mu and kappa opioid agonists in the rat drug discrimination procedure. Psychopharmacology, 102: 465-473.
- Picker, M.J., Doty, P., Negus, S.S., Mattox, S.R. and Dykstra, L.A. (1990). Discriminative stimulus properties of U50,488 and morphine: Effects of training dose on stimulus substitution patterns produced by mu and kappa opioid agonists. Journal of Pharmacology and Experimental Therapeutics, 254: 13-22.
- Dykstra, L.A., Picker, M.J. and Powell, K.R. (1990). Opioid agonists/antagonists in morphine - tolerant squirrel monkeys. Pharmacology Biochemistry Behavior, 36: 639-644.
- Picker, M.J., Negus S.S. and Craft, R. M. (1990). Butorphanol's efficacy at mu and kappa opioid receptors: Inferences based on the schedule-controlled behavior of non-tolerant and morphine-tolerant rats and on the responding of rats under a drug discrimination procedure. Pharmacology Biochemistry and Behavior, 36: 563-568.

- Picker, M.J. (1989). Neuroleptics and conditional discrimination tasks: Cholinergic mediation of the accuracy- and response rate-altering effects of chlorpromazine and clozapine but not haloperidol. Behavioural Pharmacology, 1: 141-152.
- Picker, M.J., Negus, S.S. and Dykstra, L.A. (1989). Opioid-like discriminative stimulus properties of benzomorphans in the pigeon: Stereospecificity and differential substitution patterns. Life Sciences, 45: 1637-1645.
- Doty, P., Picker, M.J. and Dykstra, L.A. (1989). Differential cross-tolerance to opioid agonists in morphine-tolerant squirrel monkeys responding under a schedule of food presentation. European Journal of Pharmacology, 174: 171-180.
- Picker, M.J. and Massie, C. A. (1989). Differential effects of neuroleptic drugs on the delayed matching-to-sample performance of pigeons. Pharmacology Biochemistry and Behavior, 31: 953-957.
- Negus, S.S., Picker, M.J. and Dykstra, L.A. (1989). Kappa antagonist properties of buprenorphine in non-tolerant and morphine-tolerant rats. Psychopharmacology, 98: 141-143.
- Picker, M.J. and Dykstra, L.A. (1989). Discriminative stimulus properties of mu and kappa opioids in the pigeon: Analysis of the effects of full and partial mu and kappa agonists. Journal of Pharmacology and Experimental Therapeutics, 249: 557-566.
- Craft, R.M., Picker, M.J. and Dykstra, L.A. (1989). Differential cross-tolerance to opioid agonists in morphine-tolerant pigeons responding under a schedule of food presentation. Journal of Pharmacology and Experimental Therapeutics, 249: 386-393.
- Picker, M.J., Cleary, J.P., Berens, K., Oliveto, A.H. and Dykstra, L.A. (1989). Molindone: Effects in pigeons responding under conditional discrimination tasks. Pharmacology Biochemistry and Behavior, 32: 439-445.
- Picker, M.J. and Dykstra, L.A. (1988). Differential effects of opioid and nonopioid analgesics on conditional discriminations in pigeons. Psychopharmacology, 94: 405-411.
- Picker, M.J. (1988). Effects of clozapine on fixed consecutive number responding in rats: A comparison to other neuroleptic drugs. Pharmacology Biochemistry and Behavior, 30: 603-612.
- Picker, M.J., Heise, J.W. and Dykstra, L.A. (1987). Evaluation of opioid agonists and antagonists under a fixed-consecutive-number schedule in rats. Pharmacology Biochemistry and Behavior, 27: 73-80.
- Picker, M.J., Massie, C.A. and Dykstra, L.A. (1987). Evaluation of opioid agonists and antagonists under a delayed matching-to-sample procedure in pigeons. Psychopharmacology, 93: 230-236.
- Poling, A. and Picker, M.J. (1987). Behavioral effects of anticonvulsant drugs. In T. Thompson, P. Dews and J. Barrett (eds.), Neurobehavioral Pharmacology, Vol. 6 (pp. 157-192). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Picker, M.J. and Dykstra, L.A. (1987). Comparison of the discriminative stimulus properties of U50,488 and morphine in pigeons. Journal of Pharmacology and Experimental Therapeutics, 243: 938-945.
- Poling, A., Blakely, E., Pelletiere, V. and Picker, M.J. (1987). Choice between sequences of

- fixed-ratio schedules: Effects of ratio values and probability of food delivery. Journal of the Experimental Analysis of Behavior, 47: 225-232.
- Poling, A., Picker, M.J., Vande Polder, D. and Clark, R. (1986). Chronic effects of ethosuximide, phenytoin, clonazepam, and valproic acid on the delayed-matching-to-sample performance of pigeons. Psychopharmacology, 88: 301-304.
- Picker, M.J., Leibold, L., Endsley, B. and Poling, A. (1986). Effects of clonazepam and ethosuximide on the responding of pigeons under a fixed-consecutive-number schedule with and without an external discriminative stimulus. Psychopharmacology, 88: 325-330.
- Poling, A., Blakely, E., White, W. and Picker, M.J. (1986). Chronic effects of clonazepam, phenytoin, ethosuximide, and valproic acid on learning in pigeons as assayed by a repeated acquisition procedure. Pharmacology Biochemistry and Behavior, 24: 1583-1586.
- Blakely, E., Leibold, L., Picker, M.J. and Poling, A. (1986). Effects of clonazepam and phenobarbital on the responding of pigeons maintained under a multiple fixed-ratio fixed-interval schedule of food delivery. Bulletin of the Psychonomic Society, 24: 233-236.
- Karas, C.A., Picker, M.J. and Poling, A. (1986). Effects of phenobarbital in combination with phenytoin or valproic acid on the delayed-matching-to-sample performance of pigeons. Pharmacology Biochemistry and Behavior, 25: 929-932.
- Picker, M.J., Blakely, E. and Poling, A. (1986). Effects of anticonvulsant drugs under auto-maintenance and negative automaintenance procedures. Pharmacology Biochemistry and Behavior, 24: 555-560.
- Picker, M.J., Leibold, L., Endsley, B. and Poling, A. (1986). Modulation of the behavioral effects of anticonvulsant drugs by an external discriminative stimulus in the pigeon. Journal of Pharmacology and Experimental Therapeutics, 238: 529-535.
- Picker, M.J., Thomas, J., Koch, C. and Poling, A. (1985). Effects of phenytoin, phenobarbital, and valproic acid, alone and in selected combinations, on schedule-controlled behavior of rats. Pharmacology Biochemistry and Behavior, 22: 389-393.
- Poling, A., Karas, C. and Picker, M.J. (1985). Readings in Applied Behavior Analysis Research Methodology. (edited text) Lexington, MA: Ginn Publishing.
- Lyon, D.O., Picker, M.J. and Poling, A. (1985). Use of electric shock in nonhuman research: A survey of JEAB studies. The Behavior Analyst, 8: 93-94.
- Poling, A., Picker, M.J., Grossett, D. and Vande Polder, D. (1985). Effects of valproic acid and ethosuximide on the responding of pigeons under a multiple fixed-ratio fixed-interval schedule of food delivery. Pharmacology Biochemistry and Behavior, 23: 469-472.
- Picker, M.J., White, W. and Poling, A. (1985). Effects of phenobarbital, clonazepam, valproic acid, ethosuximide, and phenytoin on the delayed-matching-to-sample performance of pigeons. Psychopharmacology, 86: 494-498.
- Karas, C.A., Picker, M.J. and Poling, A. (1985). Discriminative stimulus properties of tripeleminine in the pigeon. Psychopharmacology, 86: 356-358.
- Picker, M.J., Wallace, S., Hancock, S. and Poling, A. (1985). Discriminative stimulus properties of valproic acid in the pigeon. Psychopharmacology, 87: 449-543.
- Poling, A., Thomas, J., Hall-Johnson, E. and Picker, M.J. (1985). Self control revisited: Some

- factors that affect autoshaped responding. Behavioral Processes, 10: 77-85.
- Picker, M.J., Grossett, D., Thomas, J. and Poling, A. (1984). Negative automaintenance: Performance of pigeons under selective omission training procedures. Psychological Record, 34: 297-311.
- Grossett, D., Wallace, S., Picker, M.J. and Poling, A. (1984). Tripelethamine and pentazocine alone and in combination: Effects on fixed-ratio responding of rats. Bulletin of the Psychonomic Society, 22: 232-234.
- Picker, M.J. and Poling, A. (1984). Effects of anticonvulsants on learning: Performance of pigeons under a repeated acquisition procedure when exposed to phenobarbital, clonazepam, valproic acid, ethosuximide, and phenytoin. Journal of Pharmacology and Experimental Therapeutics, 230: 307-316.
- Grossett, D., Wallace, S., Picker, M.J. and Poling, A. (1984). Tripelethamine and pentazocine alone and in combination: Effects on interresponse-time-greater-than-t responding of rats. Pharmacology, Biochemistry and Behavior, 20: 697-700.
- Poling, A., Picker, M.J. and Thomas, J. (1984). Effects of chlorprothixene, haloperidol, and trifluoperazine on the delayed-matching-to-sample performance of pigeons. Pharmacology Biochemistry and Behavior, 21: 721-726.
- Poling, A., Picker, M.J. and Wallace, S. (1984). Psychopharmacological research with the mentally retarded: A methodological analysis of thirty-nine studies published from 1970-1982. In J.C. Griffin, M.T. Stark, D.E. Williams, B.K. Altmeyer and H.K. Griffin (Eds.), Advances in the Treatment of Self-Injurious Behavior (pp. 89-122). Austin, TX: Department of Health and Human Services, Texas Planning Council for Developmental Disabilities.
- Picker, M.J., Soard, G. and Poling, A. (1983). Effects of food deprivation on water intake induced by intermittent delivery of salted liquid food. Physiology and Behavior, 30: 643-645.
- Cleary, J., Wallace, S., Grossett, D., Picker, M.J. and Poling, A. (1983). Effects of pentazocine and tripelethamine on analgesia. Pharmacology Biochemistry and Behavior, 19: 911-916.
- Poling, A., Picker, M.J. and Hall-Johnson, E. (1983). Human behavioral pharmacology. Psychological Record, 33: 473-493.
- Poling, A., Picker, M.J. and Wallace, S. (1983). Some methodological characteristics of psychopharmacological studies with the mentally retarded. Mental Retardation and Learning Disability Bulletin, 11: 110-121.
- Picker, M.J. and Poling, A. (1982). Choice as a dependent measure in autoshaping: Sensitivity to frequency and duration of food presentation. Journal of the Experimental Analysis of Behavior, 37: 393-406.
- Cleary, J.P., Picker, M.J. and Poling, A. (1982). Drugs as a cause of mental retardation. In S.E. Breuning and A. Poling (Eds.), Drugs and Mental Retardation (pp. 66-85). Springfield, IL: Charles C. Thomas.
- Picker, M.J., Grossett, D., Sewell, R., Zimmermann, B. and Poling, A. (1982). The development of tolerance to morphine under discrete-trial fixed-ratio, automaintenance, and negative automaintenance procedures. Bulletin of the Psychonomic Society, 19: 249-252.

Poling, A., Picker, M.J., Grossett, D., Johnson, E. and Holbrook, M. (1981). The schism between applied and experimental psychology: Is it real and who cares? Behavior Analyst, 4: 93-102.

Picker, M.J., Poling, A. and Parker, A. (1979). A review of children's self-injurious behavior. Psychological Record, 29: 435-452.

Abstracts and Selected Presentations:

Fischer, B.D., Miller, L.L., Henry, F.E., Picker, M.J. and Dykstra, L.A. (2008). Metabotropic glutamate receptor antagonists increase the antinociceptive efficacy of μ -opioid agonists. Presented at the Committee on Problems of Drug Dependence: Puerto Rico

Henry, F.E., Lomas, L., Picker, M.J., Fischer, B.D. and Dykstra, L.A. (2008). The NMDA antagonists LY235959 and dextromethorphan enhance morphine's effectiveness in a test of capsaicin-induced hyperalgesia. Presented at the Committee on Problems of Drug Dependence: Puerto Rico.

Fischer, B.D., Zimmerman, E.I., Picker, M.J. and Dykstra L.A. (2008). Morphine in combination with metabotropic glutamate receptor antagonists on schedule controlled responding and thermal nociception. Presented at the American Society for Pharmacology and Experimental Therapeutics: San Diego, CA.

Fischer, B.D., Zimmerman, E.I., Miller, L.L., Picker, M.J. and Dykstra, L.A. (2007). The metabotropic glutamate 2/3 receptor antagonist LY341495 potentiates the antinociceptive effects of morphine in C57BL/6 mice. Presented at the College on Problems of Drug Dependence: Quebec City, Canada.

Fee, J.R., Knapp, D.J. Sparta, D.R, Breese, G.R., Picker, M.J. and Thiele T.E. (2006). Differences in the ability of ethanol and restraint stress to induce long-term ethanol-induced locomotor sensitization in DBA/2J mice. Presented at the Research Society on Alcoholism: Baltimore, MD.

Terner J.M., Lomas, L.M., Barrett, A.C., Negus S.S. and Picker M.J. (2005). Influence of ultra-low doses of naltrexone on the acute enhancement of morphine antinociception and attenuation in the development of morphine tolerance in male and female rats of four strains. Presented at the College on Problems of Drug Dependence: Orlando, Florida.

Fee, J.R., Sparta, D.R., Knapp, D.J., Breese G.R., Picker, M.J. and Thiele T.E. (2004). Is anxiety-like behavior a predictor of heightened ethanol consumption in RII β knockout mice? Presented at the annual meeting of Neuroscience: San Diego, CA (Society for Neuroscience Abstracts)

Terner J.M. and Picker, M.J. (2004). Influence of rodent strain and gonadal hormones on nociception and opioid antinociception in female rats. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico.

Lomas, L.M. and Picker, M.J. (2004). Opioid-induced antihyperalgesia in temporal summation: Lack of sex differences in a model of chronic pain. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico.

Fee, J.R., Sparta, D.R., Knapp, D.J., Breese G.R., Picker, M.J. and Thiele T.E. (2004). Dissociation between ethanol, ketamine, and pentobarbital-induced sedation in protein

- kinase A mutant mice. Presented at the 27th Annual Scientific Meeting of the Research Society on Alcoholism, Vancouver, Canada. (*Alcoholism-Clinical and Experimental Research* 28: 54A Suppl.)
- Fee, J.R., Sparta, D.R., Picker, M.J. and Thiele, T.E. (2004). Increased ethanol drinking in RII β knockout mice: Assessment of genetic background and testing procedures. Presented at the Fourth Annual Guze Symposium on Alcoholism: St Louis, MO.
- Smith, E.S., Barrett, A.C., Negus, S.S. and Picker, M.J. (2003). Genetic determinants of enhancement of morphine antinociception by ultra-low doses of naltrexone: comparison of F344 and Sprague-Dawley rats. Presented at the College on Problems of Drug Dependence: Bal Harbour, FL.
- Elliot, J.C., Picker, M.J., Ijames, S.G., Lanier, R.K., Carrigan, K.A. and Lysle, D.T. (2003). Sex differences in morphine potentiation of the contact hypersensitivity response: An investigation of cytokine mediation. Presented at the Psychoneuroimmunology Research Society: Amelia Island, FL.
- Barrett, A.C., Smith, E.S. and Picker, M.J. (2003). Capsaicin-induced hyperalgesia and mu opioid-induced antihyperalgesia in male and female rats. Presented at the College on Problems of Drug Dependence: Bal Harbour, FL.
- Lomas, L.M., Smith, E.S. and Picker, M.J. (2003). Sex differences in temporal summation in rats. Presented at the College on Problems of Drug Dependence: Bal Harbour, FL.
- Picker, M.J. and Turner, J.M. (2003). Role of gonadal hormones on nociception and buprenorphine antinociception in F344 rats. Presented at the College on Problems of Drug Dependence: Bal Harbour, FL.
- Turner, J.M., Barrett, A.C., Lomas, L.M., Smith, E.S. and Picker, M.J. (2003). Sex differences in nociception and opioid antinociception in 12 rat strains. Presented at the College on Problems of Drug Dependence: Bal Harbour, FL.
- Turner J.M., Barrett, A.C., Grossell, E. and Picker, M.J. (2002). Influence of gonadal hormone depletion on the antinociceptive effects of opioids in male and female rats. Presented at the College on Problems of Drug Dependence: Toronto, Canada (*Drug and Alcohol Dependence*, 66: 180).
- Elliot, J.C., Picker, M. J., Nelson, C.J. and Lysle, D.T. (2002). Characterization of profound sex differences in opioid potentiated inflammation: pharmacological and immunological investigations. Presented at the College on Problems of Drug Dependence: Toronto, Canada (*Drug and Alcohol Dependence*, 66: 51).
- Picker, M.J., Turner, J.M., Barrett, A.C. and Smith E. S. (2002). Sex differences in opioid antinociception: Importance of rodent strain and opioid effectiveness. Presented at the College on Problems of Drug Dependence: Toronto, Canada (*Drug and Alcohol Dependence*, 66: 138).
- Barrett, A.C., Smith, E.S. and Picker, M.J. (2002). Sex-related differences in mechanical nociception and kappa opioid antinociception in F344 rats. Presented at the College on Problems of Drug Dependence: Toronto, Canada (*Drug and Alcohol Dependence*, 66: 11).
- Elliot, J.C., Picker, M. J., Nelson, C.J. and Lysle, D.T. (2002). Sex differences in opioid-induced enhancement of contact hypersensitivity: Clinical outcomes and molecular mediators. Presented at the Psychoneuroimmunology Research Society: Madison, WS.

- Barrett, A C., Smith, E.S. and M. J. Picker (2001). Importance of sex in assessing the antinociceptive effects of μ and κ opioids against mechanical nociceptive stimuli. Presented at the South-Eastern Academic Pain Symposium: Greensboro, NC.
- Terner, J.M., Barrett, A C. and M. J. Picker (2001). Sex differences in the antinociceptive effects of opioids: Role of Gonadal Hormones. Presented at the Southeastern Academic Pain Symposium: Greensboro, NC.
- Picker, M.J. and Barrett, A.C. (2001). The use of irreversible mu antagonists to determine the relative efficacy of high efficacy mu agonists in a drug discrimination procedure. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (Drug and Alcohol Dependence, 63: 123).
- Barrett, A.C. and Picker, M.J. (2001). Sex-related differences in the antinociceptive effects of mu opioids using a mechanical nociceptive stimulus. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (Drug and Alcohol Dependence, 63: 11).
- Terner, J.M., A C. Barrett, Cook C. D. and M. J. Picker (2001). Sex and rat strain differences in (-)-pentazocine antinociception. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (Drug and Alcohol Dependence, 63: 157).
- Cook, C.D., Barrett, A.C. and Picker, M.J. (2000). Tolerance and cross-tolerance to the antinociceptive effects of mu opioid agonists: Comparison between male and female Lewis rats. Presented at the annual meeting of Neuroscience: New Orleans, LA (Society for Neuroscience Abstracts, 26: 54).
- Picker, M.J., Cook, C.D., Roach E.L. and Barrett, A.C. (2000). Antinociceptive effects of opioids I: Importance of genotype, nociceptive stimulus intensity and activity at the mu opioid receptor. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (Drug and Alcohol Dependence, 60: 171).
- Cook, C.D., Barrett, A.C. Syvanthong C. and Picker, M.J. (2000). The D2 like agonist 7-OH-DPAT attenuates the development of morphine-induced tolerance, but not physical dependence in the rat. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (Drug and Alcohol Dependence, 60: 41).
- Barrett, A.C., Cook, C.D., Roach E.L. and Picker, M.J. (2000). Antinociceptive effects of opioids II: Importance of genotype, nociceptive stimulus intensity and activity at the kappa opioid receptor. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (Drug and Alcohol Dependence, 60: 11).
- Cook C.D., Barrett A.C. and Picker, M.J. (1999). Selective attenuation of the antinociceptive effects of κ opioids by the D3 agonist (\pm)-7-OH-DPAT. Presented at the College on Problems of Drug Dependence: Acapulco, Mexico (NIDA Research Monographs, 180: 66).
- Barrett, A.C., Morgan D. and Picker M.J. (1999). Cocaine-like stimulus effects of partial μ agonists. Presented at the College on Problems of Drug Dependence: Acapulco, Mexico (NIDA Research Monographs, 180: 176).
- Picker, M.J. and Cook, C.D. (1998). Delta opioid-like stimulus effects of mu opioids in pigeons discriminating BW373U86 from saline. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (NIDA Research Monographs, 179: 239).
- Cook, C.D., Rodefer, J. and Picker, M.J. (1998). 7-OH-DPAT, but not quinpirole, attenuates the antinociceptive effects of mu opioids. Presented at the College on Problems of Drug

- Dependence: Scottsdale, AZ (NIDA Research Monographs, 179: 94).
- Smith, M.A., Barrett, A.C. and Picker, M.J. (1998). Tolerance to the antinociceptive effects of mu opioids in butorphanol-treated rats. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (NIDA Research Monographs, 179: 231).
- Morgan D. and Picker, M.J. (1998). Rat strain differences in sensitivity to the discriminative stimulus effects of opioids. Presented at the College on Problems of Drug Dependence: Scottsdale, AZ (NIDA Research Monographs, 179: 237).
- Walker, E.A., Hawkins, E.R., Tiano, M.J., Picker, M.J. and Dykstra, L.A. (1998). Discriminative stimulus effects of nalbuphine in nontreated and morphine-treated pigeons. Presented at the Society of the Stimulus Properties of Drugs: Beerse, Belgium (Behavioural Pharmacology, 9(S1): 124).
- Picker, M.J., Cook, C.D., Morgan, D. and Smith, M.A. (1997). Drug discrimination in pigeons successively trained to discriminate a mu and a kappa opioid. Presented at the College on Problems of Drug Dependence: Nashville, TN (NIDA Research Monographs, 178: 169).
- Smith, M.A. and Picker, M.J. (1997). Discriminative stimulus effects of the partial mu agonist dezocine. Presented at the College on Problems of Drug Dependence: Nashville, TN (NIDA Research Monographs, 178: 169).
- Morgan, D., Cook, C.D. and Picker, M.J. (1997). Rat strain differences in sensitivity to the antinociceptive effects of mu opioids. Presented at the College on Problems of Drug Dependence: Nashville, TN (NIDA Research Monographs, 178: 269).
- Cook, C.D. and Picker, M.J. (1997). Evidence of pharmacological selectivity in pigeons discriminating fentanyl, bremazocine and water: Presented at the College on Problems of Drug Dependence: Nashville, TN (NIDA Research Monographs, 178: 168).
- Cook, C.D. and Picker, M.J. (1997). Antagonism of the antinociceptive and discriminative stimulus effects of mu opioids by the dopamine D3 agonist (\pm)-7-hydroxy-dipropylaminotetralin ([\pm]-7-OH-DPAT). Presented at the annual meeting of Neuroscience: New Orleans, LA (Society for Neuroscience Abstracts, 23: 986).
- Smith, M.A., Walker, E.A. and Picker, M.J. (1997). Changes in potency of mu and kappa opioids following chronic administration of butorphanol. Presented at the annual meeting of Neuroscience: New Orleans, LA (Society for Neuroscience Abstracts, 23: 986).
- Morgan, D., Smith, M.A., Cook, C.D. and Picker, M.J. (1996). Effects of levorphanol, buprenorphine and butorphanol alone and in combination with morphine in a rat tail withdrawal procedure. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (NIDA Research Monographs, 174: 161).
- Cook, C.D. and Picker, M.J. (1996). Discriminative stimulus effects of dopaminergic compounds in butorphanol-trained pigeons. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (NIDA Research Monographs, 174: 165).
- Smith, M.A. and Picker, M.J. (1996). Development of tolerance and cross-tolerance to the effects of opioids in butorphanol-treated rats. Presented at the College on Problems of Drug Dependence: San Juan, Puerto Rico (NIDA Research Monographs, 174: 168).
- Walker, E.A., Dykstra, L.A. and Picker, M.J. (1996). Antagonism of the rate-decreasing effects of opioid partial agonists. Presented at the annual meeting of Neuroscience: Washington, DC (Society for Neuroscience Abstracts, 22: 622).

- Morgan, D. and Picker, M.J. (1996). Individual differences in opioid effects. North Carolina Governor's Institute on Substance Abuse. Greensboro, NC.
- Morgan, D., Horwitz, J.A. and Picker, M.J. (1995). Drug discrimination: Modification of stimulus substitution patterns by training history. Presented at the Southeastern Association for Behavior Analysis: Charleston, SC.
- Hughes, C.E., Dykstra, L.A. and Picker, M.J. (1995). Behavioral tolerance and cross-tolerance. Presented at the Southeastern Association for Behavior Analysis: Charleston, SC.
- Allen, R.M., Morgan, D., Levine, A.S., O'Hare, E., Lysle, D.T., Picker, M.J. and Cleary, J. (1995). Interaction between neuropeptide Y and the discriminative stimulus and antinociceptive effects of morphine. Presented at the annual meeting of Neuroscience: San Diego, CA (Society for Neuroscience Abstracts, 21: 637).
- Picker, M.J., Morgan, D. and Negus, S.S. (1995). Interaction between the discriminative stimulus effects of mu opioids and the delta opioid, BW373U86. Presented at the College on Problems of Drug Dependence: Scottsdale, Arizona (NIDA Research Monographs, 162: 106).
- Morgan, D. and Picker, M.J. (1995). Effects of the irreversible competitive antagonist β -FNA on the discriminative stimulus effects of mu opioids. Presented at the College on Problems of Drug Dependence: Scottsdale, Arizona. (NIDA Research Monographs, 162: 107).
- Smith, M., Benyas, S., Thompson, K., Horwitz, J.A. and Picker, M.J. (1995). Discriminative stimulus effects of butorphanol: Involvement of mu, kappa and delta receptors. Presented at the College on Problems of Drug Dependence: Scottsdale, Arizona. (NIDA Research Monographs, 162: 339).
- Morgan, D., MacPhail, R. and Picker, M.J. (1994). Antagonism of the discriminative stimulus effects of 8-OH DPAT by mu but not by kappa opioids. Presented at the annual meeting of Neuroscience: Miami Beach, FL (Society for Neuroscience Abstracts, 20: 227).
- Smith, M.A., Pitts, R.C., Dykstra, L.A. and Picker, M.J. (1994). Effects of opioids with varying degrees of intrinsic efficacy at the mu receptor on fixed-consecutive number responding in rats. Presented at the annual meeting of Neuroscience: Miami Beach, FL (Society for Neuroscience Abstracts, 20: 227).
- Morgan, D. and Picker, M.J. (1994). Analysis of individual responsiveness to the behavioral effects of low, intermediate and high efficacy mu opioids. Presented at the Southeastern Association for Behavior Analysis: Atlanta, GA.
- West, J. P., Dykstra, L.A., Pitts, R., Morgan, D., Hapke, D. and Picker, M.J. (1994). Determining the relative intrinsic efficacy of mu-opioid agonists using β -funaltrexamine. Presented at the College on Problems of Drug Dependence: Palm Beach, Florida (NIDA Research Monographs, 153: 101).
- Hughes, C. E., Picker, M.J. and Dykstra, L.A. (1994). Tolerance and cross-tolerance to the effects of various mu opioids on schedule-controlled responding in morphine-maintained squirrel monkeys. Presented at the College on Problems of Drug Dependence: Palm Beach, Florida (NIDA Research Monographs, 153: 94).
- Morgan, D. and Picker, M.J. (1994). Role of individual differences in the discriminative stimulus, rate-decreasing and antinociceptive effects of opioids with high and low efficacy at the mu receptor. Presented at the College on Problems of Drug Dependence: Palm

- Beach, Florida (NIDA Research Monographs, 153: 93).
- Smith, M.A. and Picker, M.J. (1994). Characterization of the discriminative stimulus effects of mixed action opioids: Role of training dose and intrinsic efficacy. Presented at the College on Problems of Drug Dependence: Palm Beach, Florida (NIDA Research Monographs, 153: 92).
- Powell, K.R., Picker, M.J. and Dykstra, L.A. (1993). The role of serotonin in the discriminative stimulus effects of mu- and kappa-opioids. Presented at the annual meeting of Neuroscience: Washington, DC (Society for Neuroscience Abstracts, 19: 1459).
- Morgan, D., Smith, M.A., Hughes, C.E., Dykstra, L.A. and Picker, M.J. (1993). Role of procedural variables and interanimal differences in the discriminative stimulus effects of mixed action opioids. Presented at the Southeastern Association for Behavior Analysis: Chapel Hill, NC.
- Smith, M.A., Morgan, D., Hughes, C.E., Dykstra, L.A. and Picker, M.J. (1993). Agonist and antagonist effects of mixed action opioids in the pigeon drug discrimination procedure: Influence of training dose, intrinsic efficacy and inter-animal differences. Presented at the College on Problems of Drug Dependence: Toronto, Canada (NIDA Research Monographs, 141: 275).
- Morgan, D., Smith, M.A. and Picker, M.J. (1993). Effects of profadol and meperidine: Interaction with fentanyl and butorphanol. Presented at the College on Problems of Drug Dependence: Toronto, Canada (NIDA Research Monographs, 141: 276).
- Pitts, R.C., Dykstra, L.A. and Picker, M.J. (1993). Response rate-decreasing effects of mu, kappa and mixed action opioids in the rat: Differential sensitivity to antagonism by naltrexone. Presented at the College on Problems of Drug Dependence: Toronto, Canada (NIDA Research Monographs, 141: 272).
- Hughes, C.E., Habash, T., Dykstra, L.A. and Picker, M.J. (1993). Assessment of noradrenergic involvement in the discriminative stimulus effects of morphine. Presented at the College on Problems of Drug Dependence: Toronto, Canada (NIDA Research Monographs, 141: 277).
- Picker, M.J. (1993). Intermediate efficacy mu opioids: Analysis of their behavioral and pharmacological properties in nonhumans. Invited presentation at the Veterans Administration Medical Center, Geriatric, Research, Education and Clinic Center Seminar Series on Aging: Minneapolis, MN.
- Picker, M.J., Johnson, A.B. and Dykstra, L.A. (1992). Kappa antagonist properties of mixed mu/kappa agonists in the pigeon drug-discrimination procedure. Presented at the Committee on Problems of Drug Dependence: Keystone, CO (NIDA Research Monographs, 132: 249).
- Powell, K.R., Dykstra, L.A. and Picker, M.J. (1992). Serotonergic modulation of mu- and kappa-opioid discriminative stimulus properties in rats. Presented at the Committee on Problems of Drug Dependence: Keystone, CO (NIDA Research Monographs, 132: 251).
- Mattox, S.R., Picker, M.J. and Dykstra, L.A. (1992). Pharmacological analysis of the rate-decreasing effects of mu and kappa opioids in pigeons. Presented at the Committee on Problems of Drug Dependence: Keystone, CO (NIDA Research Monographs, 132: 250).
- Doty, P., Picker, M.J. and Dykstra, L.A. (1991). Interaction of the discriminative stimulus properties of delta-9-THC with PCP and ethanol in rats. Presented at the Committee on

- Problems of Drug Dependence: West Palm Beach, FL (NIDA Research Monographs, 119: 407).
- Bronson, M.E., Burchett, K., Picker, M.J. and Dykstra, L.A. (1991). Possible role for serotonin in the discriminative stimulus effects of the kappa opioid U50,488. Presented at the Committee on Problems of Drug Dependence: West Palm Beach, FL (NIDA Research Monographs, 119: 380).
- Mattox, S.R., Negus, S.S., Picker, M.J. and Dykstra, L.A. (1991). Agonist and antagonist properties of partial mu opioid agonists in the drug discrimination procedure: The role of training dose. Presented at the Committee on Problems of Drug Dependence: West Palm Beach, FL (NIDA Research Monographs, 119: 400).
- Bronson, M.E., Picker, M.J., and Dykstra, L.A. (1991). Tolerance / cross-tolerance to the discriminative stimulus effects of chlordiazepoxide and RO16-6026. Presented at the annual meeting of Neuroscience: New Orleans, LO (Society for Neuroscience Abstracts, 17: 295).
- Doty, P., Johnson, A. B., Picker, M.J. and Dykstra, L.A. (1991). Discriminative stimulus properties of cocaine: Lack of antagonism by buprenorphine, morphine or naltrexone. Presented at the annual meeting of Neuroscience: New Orleans, LO (Society for Neuroscience Abstracts, 17: 1425).
- Doty, P., Dykstra, L.A. and Picker, M.J. (1991). Behavioral interactions of delta-9-THC and ethanol in rats. Presented at the Annual Meeting on Alcoholism: Raleigh, NC.
- Picker, M.P., Negus, S.S., Craft, R.M., Yarbrough, J. and Dykstra, L.A. (1990). Effects of opioid agonists and antagonists in morphine-tolerant pigeons and rats responding under a schedule of food presentation. Presented at the American Psychological Association: Boston, MA (Pharmacology, Biochemistry and Behavior, 36: 438).
- Doty, P., Dykstra, L.A. and Picker, M.J. (1990). Delta-9-THC interactions with PCP and ethanol in rats responding under a fixed consecutive number schedule. Presented at the Committee on Problems of Drug Dependence: Richmond, VA (NIDA Research Monographs, 105: 299).
- Dykstra, L.A., Picker, M.J. and Powell, K. (1990). Stereospecificity of mixed action opioid agonists/antagonists in morphine-tolerant squirrel monkeys. Presented at the Committee on Problems of Drug Dependence: Richmond, VA (NIDA Research Monographs, 105: 375).
- Mattox, S.R., Picker, M.J. and Dykstra, L.A. (1990). Antagonism of mu and kappa opioids: Effects on schedule-controlled behavior in pigeons. Presented at the Committee on Problems of Drug Dependence: Richmond, VA (NIDA Research Monographs, 105: 390).
- Negus, S.S. , Picker, M.J. and Dykstra, L.A. (1990). Interactions between mu and kappa opioid agonists in the squirrel monkey drug discrimination procedure. Presented at the Committee on Problems of Drug Dependence: Richmond, VA.
- Picker, M.J. and Dykstra, L.A. (1990). Isomeric differences in the discriminative stimulus properties of n-allylnormetazocine (NANM) in the pigeon. Presented at the Meeting for the Federation of American Society for Experimental Biology: Washington, DC (FASEB Journal, 4: 331).
- Negus, S.S., Picker, M.J. and Dykstra, L.A. (1989). Isomeric separation of the mu, kappa and sigma-mediated stimulus effects of metazocine in the pigeon. Presented at the annual

- meeting of Neuroscience: Phoenix, AZ (Society for Neuroscience Abstracts, 15: 248).
- Negus, S.S., Picker, M.J. and Dykstra, L.A. (1989). Kappa antagonist effects of buprenorphine in the rat drug discrimination procedure. Presented at the Committee on Problems of Drug Dependence: Keystone, CO (NIDA Research Monographs, 95: 518-519).
- Oliveto, A.H., Picker, M.J. and Dykstra, L.A. (1989). Effects of mixed-action opioids on food maintained behavior of morphine-pretreated and morphine-tolerant rats. Presented at the Committee on Problems of Drug Dependence: Keystone, CO (NIDA Research Monographs, 95: 524).
- Oliveto, A.H., Picker, M.J. and Dykstra, L.A. (1989). Enhanced sensitivity to mixed-action opioids in morphine-tolerant squirrel monkeys. Presented at the American Psychological Association: New Orleans, LO (Pharmacology, Biochemistry and Behavior, 32: 1087).
- Picker, M.J., Negus, S.S., Powell, K.R. and Dykstra, L.A. (1989). Differential cross-tolerance to mu and kappa opioid agonists in morphine-tolerant rats. Presented at the Federation of American Society for Experimental Biology: New Orleans, LO (FASEB Journal, 3: 443).
- Mattox, S.R., Picker, M.J. and Dykstra, L.A. (1989). Training dose as a determinant of morphine's discriminative stimulus properties. Presented at the American Psychological Association: New Orleans, LO (Pharmacology, Biochemistry and Behavior, 32: 1086-1087).
- Oliveto, A.H., Picker, M.J., Cleary, J.P., Berens, K. and Dykstra, L.A. (1988). Analysis of the effects of the atypical neuroleptic molindone in pigeons responding under conditional discrimination tasks. Presented at the Federation of American Society for Experimental Biology: Las Vegas, NV (FASEB Journal, 2: 1568).
- Picker, M.J. and Dykstra, L.A. (1988). Discriminative properties of bremazocine and fentanyl in pigeons. Presented at the American Psychological Association: Atlanta, GA (Pharmacology, Biochemistry and Behavior, 30: 557).
- Doty, P., Picker, M.J. and Dykstra, L.A. (1988). Cross-tolerance to opioids in morphine-treated animals. Presented at the American Psychological Association: Atlanta, GA (Pharmacology, Biochemistry and Behavior, 30: 557).
- Craft, R.M., Picker, M.J. and Dykstra, L.A. (1988). Cross-tolerance and sensitivity to opioids in morphine-treated pigeons. Presented at the American Psychological Association: Atlanta, GA (Pharmacology, Biochemistry and Behavior, 30: 557).
- Doty, P., Negus S.S., Picker M.J. and Dykstra, L.A. (1988). Generalization between the discriminative stimulus properties of mu and kappa opioid agonists in the rat. Presented at the Meeting for the Federation of American Society for Experimental Biology: Las Vegas, NV (FASEB Journal, 2: 1568).
- Picker, M.J. and Dykstra, L.A. (1987). Comparison of the discriminative stimulus properties of morphine and U50,488 in the rat. Presented at the Meeting for the Federation of American Society for Experimental Biology: Washington, DC (Federation Proceedings, 46: 547).
- Picker, M.J. and Poling, A. (1985). Valproic acid as a discriminative stimulus. Presented at the Midwestern Association for Behavior Analysis: Columbus, OH.
- Picker, M.J., Thomas, J., Koch, C. and Poling, A. (1984). Anticonvulsants and operant behavior: Effects of phenobarbital, phenytoin, and valproic acid, alone and in selected combinations on the schedule-controlled performance of rats. Presented at the

Midwestern Association for Behavior Analysis: Nashville, TN.

- Picker, M.J., White, W. and Poling, A. (1984). Effects of anticonvulsants on the delayed matching-to-sample performance of pigeons. Presented at the Midwestern Association for Behavior Analysis: Nashville, TN.
- Picker, M.J. and Poling, A. (1984). Acute effects of anticonvulsants under a repeated acquisition procedure. Presented at the Midwestern Association for Behavior Analysis: Nashville, TN.
- Van Haaren, F., Krafft, K. and Picker, M.J. (1982). Effects of fixed duration changeover delays on paced concurrent variable-interval performance of pigeons. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Krafft, K., Picker, M.J. and Poling, A. (1982). Effects of chlorpromazine on responding suppressed by punishment. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Picker, M.J. and Poling, A. (1982). Reinforcement duration: Effects on the negative automaintained responding of pigeons. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Picker, M.J., Grossett, D. and Poling, A. (1982). Analysis of operant contingencies in autoshaped responding. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Zimmerman, B. and Picker, M.J. (1981). Ethanol self-administration induced by intermittent delivery of salted condensed milk. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Picker, M.J. and Poling A. (1981). Microanalysis of autoshaped responding in pigeons when exposed to different probabilities of food presentation. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Zimmerman, B. and Picker, M.J. (1981). Behavioral tolerance to morphine under a negative automaintenance procedure. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Picker, M.J. and Poling A. (1981). Choice as a measure of the strength of the pigeon's autoshaped response. Presented at the Midwestern Association for Behavior Analysis: Milwaukee, WI.
- Picker, M.J., Fath, S., Sobeck, J. and Malott, M. (1980). Partial and continuous reinforcement effects under a positive automaintenance procedure in pigeons. Presented at the Midwestern Association for Behavior Analysis: Dearborn, MI.