

## CURRICULUM VITAE

**KEITH A. TRUJILLO**

August 2008

**ADDRESS:** Department of Psychology  
California State University San Marcos  
San Marcos, CA 92096-0001

**TELEPHONE:** (760) 750-4183

**FAX:** (760) 750-3418

**E-MAIL:** keith@csusm.edu

### EDUCATION AND EXPERIENCE:

2003-present Associate Director, Office for Biomedical Research and Training, California State University San Marcos

2001-present Professor, Department of Psychology, California State University San Marcos

1999-2003 Consulting Scientist, Arena Pharmaceuticals, San Diego, CA

1997-2001 Associate Professor, Department of Psychology, California State University San Marcos

1994-1997 Assistant Professor, Psychology Program, California State University San Marcos

1992-1994 Research Investigator, Mental Health Research Institute, University of Michigan.

1993 Instructor, Department of Psychology, University of Michigan

1990-1991 Senior Research Fellow, Mental Health Research Institute, University of Michigan. Huda Akil, Ph.D., Supervisor

1986-1990 Postdoctoral Research Fellow, Mental Health Research Institute, University of Michigan. Huda Akil, Ph.D., Supervisor

1980-1985 Ph.D., Pharmacology and Toxicology, University of California Irvine.  
Dissertation: *Endogenous Opioids and Reinforcement: Effects of Opiate Antagonists on Intracranial Self-Stimulation Behavior and in Conditioned Place Preference*. Larry Stein, Ph.D., Supervisor

1979-1980 Research Volunteer, National Institute of Mental Health, Bethesda, Maryland.  
Agu Pert, Ph.D., Supervisor

1976-1979 B.A. Biological Sciences, Psychology, and Chemistry, California State University Chico

1974-1976 A.A. Biological Sciences, Shasta College, Redding, California

### HONORS AND AWARDS:

2005 National Award of Excellence in Mentorship, National Hispanic Science Network on Drug Abuse

2003 National Award for Research, National Hispanic Science Network on Drug Abuse

2001 Invited Commencement Address, College of Arts & Sciences, CSU San Marcos

2001 President's Award for Scholarly and Creative Activity, CSU San Marcos

2001 *2000 Outstanding Scientists of the 21st Century*, International Biographical Centre

1999 Inducted into Shasta College Athletic Hall of Fame

1996 Travel Award, International Narcotics Research Conference, Long Beach,

- California
- 1994 *Who's Who in Science and Engineering, 2nd Edition*
- 1994 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression
- 1992 Travel Award, College on Problems of Drug Dependence Annual Meeting, Keystone, Colorado (awarded by NIDA)
- 1992 Travel Award, International Narcotics Research Conference, Keystone, Colorado
- 1990 Travel Award, Committee on Problems of Drug Dependence Annual Meeting, Richmond, Virginia
- 1989 Travel Award, International Narcotics Research Conference, Ste. Adele, Quebec, Canada
- 1989 Travel Award, Committee on Problems of Drug Dependence Annual Meeting, Keystone, Colorado (awarded by NIDA)
- 1985 "Patent Fund" Award, University of California, Irvine Chancellor
- 1983, 1985 Graduate Student Research and Travel Award, University of California, Irvine
- 1978-1979 Deans List, School of Natural Sciences, California State University, Chico
- 1978-1979 Deans List, School of Social Sciences, California State University, Chico
- 1976-1978 California State Scholarship

**GRANTS AND FELLOWSHIPS, RESEARCH:**

- 2008-2012 Research Grant, National Institute of General Medical Sciences, "Behavioral Effects of Dissociatives in Adolescents: Comparison with Adults", \$444,000
- 2005-2008 Research Grant, R15 DA019859, National Institute on Drug Abuse, "Role of Glutamate in Opiate Tolerance and Sensitization", \$222,000
- 2005-2007 Research Grant, SO6 GM59833, National Institute of General Medical Sciences, "Support for Continuous Research Excellence", Subproject: "Behavioral Changes Induced by Repeated Ketamine Use", \$147,878
- 2004-2005 Research, Scholarship and Creative Activity Grant, CSU San Marcos, "Behavioral Interactions between Glutamate Receptors and Antidepressants", \$3,000
- 2003 Grant Proposal Seed Money, CSU San Marcos, "Role of AMPA Receptors in Opiate-Induced Behavior", \$1,000
- 1999-2003 Research Grant, SO6 GM59833, National Institute of General Medical Sciences, "Support for Continuous Research Excellence", Subproject: "Role of NMDA Receptors in the Acute and Chronic Behavioral Actions of Opiates", \$809,938
- 1999 Research Grant, Arena Pharmaceuticals, "Functional Consequences of 5HT2A Blockade", \$2355
- 1998 Research Grant, Arena Pharmaceuticals, "Behavioral Consequences of Decreasing Orphan Receptor Production with Antisense Oligonucleotides", \$1438
- 1997-1998 Research Grant, RO3 DA11803, National Institute on Drug Abuse, "NMDA Receptors and Opiate-Induced Behavioral Plasticity", \$65,667
- 1996-1997 Faculty Development Award, College of Arts & Sciences, CSU San Marcos, "Grant Development", \$2,000
- 1994-1997 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression, "Role of NMDA Receptors in the Therapeutic Actions of

|           |  |
|-----------|--|
|           | Antidepressants”, \$60,000   |
| 1995-1996 | Faculty Development Award, College of Arts & Sciences, CSU San Marcos, “Behavioral Pharmacology Laboratory”, \$4,000     |
| 1991-1992 | Research Supplement for Minority Investigators, R1 DA02265B, National Institute on Drug Abuse                            |
| 1987-1990 | National Research Service Award (NRSA) Individual Postdoctoral Fellowship, F32 DA05336, National Institute on Drug Abuse |
| 1986      | National Research Service Award (NRSA) Postdoctoral Traineeship, T32 MH15794, National Institute of Mental Health        |
| 1985      | Dissertation Fellowship, University of California Regents  |
| 1985      | In-Candidacy Fee Offset Grant, University of California Irvine   |

#### **GRANTS AND FELLOWSHIPS, TEACHING AND MENTORING:**

|           |   |
|-----------|---|
| 2008-2013 | Training Grant Subproject, National Science Foundation, “CSU Louis Stokes Alliance for Minority Participation at CSU San Marcos”, approx. \$200,000 |
| 2004-2005 | Lottery Fund Award, CSU San Marcos, “Supplemental Instruction for Psychology” (Co-PI with Gerardo Gonzalez), \$4,500                                |
| 2000-2001 | California Predoctoral Fellowship (with Ian Mendez), \$3,000  |
| 2000-2001 | California Predoctoral Fellowship (with Kathleen Warmoth), \$3,000  |
| 1998-1999 | University Professional Development Grant, CSU San Marcos, “Research Mentoring in Neuropsychopharmacology”, \$1,600                                 |
| 1997-1998 | University Professional Development Grant, CSU San Marcos, “NMDA Receptors and Psychoactive Drugs: A Faculty-Student Collaboration”, \$4,000        |
| 1997-1998 | California Predoctoral Fellowship (with Michelle Swadley-Lewellen), \$3,000   |
| 1997-1998 | Lottery Fund Award, CSU San Marcos, “The Psychology Academic Resource Laboratory” (co-PI with Gerardo González), \$4,000                            |
| 1996-1997 | Lottery Fund Award, CSU San Marcos, “The Psychology Academic Resource Laboratory” (co-PI with Gerardo González), \$8,250                            |
| 1995-1996 | University Fund for Technological Innovation on Campus, CSU San Marcos, “Drugs and the Brain WWW Site”, \$6,779                                     |
| 1995-1996 | Lottery Fund Award, CSU San Marcos, “Multimedia Computer Applications in Psychology Teaching”, \$3,000  |

#### **MEMBERSHIPS:**

American Association for the Advancement of Science (AAAS) (1980-present)  
 American Psychological Association (APA) (1989-1996)  
 APA Division 28: Psychopharmacology and Substance Abuse (1989-present)  
 Association for Psychological Science (APS) (1988-1994, 2006-2009)  
 Association for Ethnic Diversity in the Neurosciences (1997-2001)  
 Faculty for Undergraduate Neuroscience (1992-present; Inducted as Fellow in 2003)  
 International Narcotics Research Conference (INRC) (1986-present)  
 National Hispanic Science Network on Drug Abuse (2001-present; Charter Member)  
 Psi Chi (The National Honor Society in Psychology) (1997-present)  
 Society for Neuroscience (1980-present)

**PROFESSIONAL ACTIVITIES, EXTERNAL SERVICE:****Committees, Boards and Elected Positions:**

- 2008-present Selection Committee, Science Educator Award, Society for Neuroscience
- 2008-present Selection Committee, Next Generation Award, Society for Neuroscience
- 2004-present Member, Advisory Board, Support of Mentors and Their Students (SOMAS)
- 2003-2007 Councilor, Faculty for Undergraduate Neuroscience
- 2006 Selection Committee, Summer Program in Neuroscience Ethics & Survival
- 2006 Expert Consultant, "Provider Brochure: Drug Abuse and Addiction in Hispanics",  
Institute on Urban Health Research, Northeastern University
- 2004-2006 Member, Mentoring and Training Subcommittee, National Hispanic Science  
Network on Drug Abuse
- 2003-2006 Member, Committee on Neuroscience Literacy, Society for Neuroscience
- 2005 Expert Consultant, "Substance Abuse and the Brain: An Educational Group  
Curriculum for Women in Recovery", Institute on Urban Health Research,  
Northeastern University
- 2004, 2005 Member, Conference Planning Subcommittee, National Hispanic Science  
Network on Drug Abuse
- 2002-2003 Expert Panelist, Neuroscience and Human Genome Workgroup, National  
Strategic Plan on Hispanic Drug Abuse Research
- 2000-2002 Biological Sciences Review Panel, Ford Foundation Predoctoral Fellowships for  
Minorities Program
- 2000-2001 Consultant, Electronic Supplements (CD and World Wide Web), *An Introduction  
to Brain and Behavior*, Worth Publishers
- 1994-1995 Member, Committee on Educational Support, Faculty for Undergraduate  
Neuroscience
- 1989-1993 Member, Advisory Committee, American Psychological Association/Association  
of Neuroscience Departments and Programs (APA/ANDP) Minority  
Fellowship Program in the Neurosciences
- 1988-1992 Liaison Coordinator, American Psychological Society

**Symposia and Workshop Leadership:**

- 2007 Discussant, Ethics Case Study, Professional Skills Workshop, Society for  
Neuroscience Annual Conference
- 2007 Co-Organizer/Co-Chair, Symposium: "Basic Sciences Datablitz", National  
Hispanic Science Network on Drug Abuse Annual Conference
- 2007 Co-Organizer/Co-Chair, "Mentoring Basic Scientists Luncheon", National  
Hispanic Science Network on Drug Abuse Annual Conference
- 2006 Organizer/Chair, Symposium: "Recent Findings on Drug Abuse and Addiction in  
the Basic Sciences", National Hispanic Science Network on Drug Abuse  
Annual Conference
- 2005 Co-Organizer/Co-Chair, Symposium: "Poppies, Pain and Pleasure: Unraveling  
Opiate Use and Misuse in Hispanics", National Hispanic Science Network on  
Drug Abuse Annual Conference
- 2005 Co-Chair, Workshop, "Mapping your Future: Transitioning out of Graduate  
School", National Hispanic Science Network on Drug Abuse Annual  
Conference
- 2004 Co-Organizer, Short Course for High School Students, Society for Neuroscience  
Annual Meeting

- 2004 Co-Organizer/Co-Chair, New Investigators Panel and Poster Session, National Hispanic Science Network on Drug Abuse Annual Conference
- 2002 Co-Facilitator, Grant Proposal Writing Workshop, National Hispanic Science Network on Drug Abuse Annual Conference
- 1993 Co-Organizer, Young Investigator's Symposium, College on Problems of Drug Dependence Annual Meeting

**Peer Review:**

- 2005-present Grant Reviewer, Support of Mentors and Their Students (SOMAS)
- 2008 Grant Reviewer, Agence Nationale de la Recherche, France
- 2007 External Peer Reviewer, University of California San Diego
- 2006 Chair, Study Section, Special Emphasis Panel, ZMH1 ERB-Q (04), National Institute of Mental Health
- 2006 Member and Co-Chair, Study Section, Special Emphasis Panel, ZMH1 ERB-Q (01), National Institute of Mental Health
- 2005 Member, Study Section, Special Emphasis Panel, ZMH1 ERB-C, National Institute of Mental Health
- 2004 Member, Study Section, Special Emphasis Panel, ZMH1 BRB-S, National Institute of Mental Health
- 2003 Ad Hoc Grant Reviewer, National Institute on Drug Abuse
- 2002 External Peer Reviewer, University of California, Los Angeles
- 2002 Reviewer, Textbook, *Drugs, the Brain, and Behavior*, Sinauer Associates
- 2001 External Peer Reviewer, University of New Orleans
- 2000 Reviewer, Textbook and Ancillary Materials, *An Introduction to Brain and Behavior*, Worth Publishers
- 1998, 2000 Grant Reviewer, Human Frontier Science Program
- 1998 Ad Hoc Grant Reviewer, National Institute on Drug Abuse
- 1998 External Peer Reviewer, University of California San Diego
- 1986-present Ad Hoc Peer Review of Journal Articles:

- *American Psychologist*
- *Archives of General Psychiatry*
- *Behavioral Neuroscience*
- *Biochemical Pharmacology*
- *Biological Signals*
- *Brain Research Bulletin*
- *European Journal of Pharmacology*
- *European Neuropsychopharmacology*
- *International J. of Neuropsychopharmacology*
- *Journal of Neuroscience*
- *J. Undergraduate Neuroscience Education*
- *Literature and Medicine*
- *Neuropharmacology*
- *Neuroscience*
- *Neuroscience Letters*
- *Pain*
- *Pharmacology Biochemistry & Behavior*
- *Proceedings of the National Academy of Sciences, USA*
- *Psychopharmacology*
- *Anesthesia & Analgesia*
- *Behavioral and Neural Biology*
- *Behavioural Brain Research*
- *Biological Psychiatry*
- *Brain Research*
- *European Journal of Neuroscience*
- *Experimental Neurology*
- *ILAR Journal*
- *Journal of Autism and Developmental Disorders*
- *J. Pharmacology & Experimental Therapeutics*
- *Life Sciences*
- *Neurochemical Research*
- *Neuropsychopharmacology*
- *Neuroscience and Biobehavioral Reviews*
- *Neurotoxicity Research*
- *Peptides*
- *Physiology and Behavior*
- *Progress in Neuropsychopharmacology & Biological Psychiatry*
- *Synapse*

**PROFESSIONAL ACTIVITIES, UNIVERSITY SERVICE:****Committees, Boards and Elected Positions:**

- 2008-present      Committee for Undergraduate Research, CSU San Marcos  
 2008                Member, Council for Undergraduate Research Self-Study Group, CSU San Marcos
- 2007-2008        Member, Social and Behavioral Sciences Building Design Team
- 2007-present     Advisory Committee, Human Development Program, CSU San Marcos
- 2007-present     Campus Liaison, Council for Undergraduate Research, CSU San Marcos
- 2002-present     Member, Selection Committee, Research Initiative for Scientific Enhancement (RISE) Program, CSU San Marcos
- 2002-present     Member, Selection Committee, Minority Access to Research Careers (MARC) Program, CSU San Marcos
- 1996-present     Member, Institutional Animal Care & Use Committee (IACUC), CSU San Marcos (Interim Chair, Fall 1998)
- 1996-present     Director, Laboratory Animal Facility, CSU San Marcos
- 1996-present     Director, Psychology Academic Resource Laboratory, CSU San Marcos
- 2005-2006        Member, Provost Search Committee, CSU San Marcos
- 2005-2006        Chair, Search Committee, Animal Care Technician, CSU San Marcos
- 2005                Chair, Search Committee, Instructional Support Technician, Department of Psychology, CSU San Marcos
- 2000-2004        Treasurer, California Faculty Association (CFA), CSU San Marcos Chapter
- 2004                Chair, Search Committee, Instructional Support Technician, Department of Psychology, CSU San Marcos
- 2002                Member, Search Committee, Director of the National Latino Research Center, CSU San Marcos
- 2000-2002        Member, Academic Senate, CSU San Marcos
- 2001-2002        Member, Substance Abuse Advisory Council, CSU San Marcos
- 2000-2001        Member, Advisory Board, National Latino Research Center, CSU San Marcos
- 2000-2001        Member (Ex Officio), Executive Committee Academic Senate, CSU San Marcos (California Faculty Association Representative)
- 2000-2001        Member, Search Committee, Developmental Psychologist, Psychology Program, CSU San Marcos
- 2000-2001        Chair, Search Committee, Instructional Support Technician, Department of Psychology, CSU San Marcos
- 1996-2003        Member, Faculty Mentoring Program, CSU San Marcos (1-2 students/academic year)
- 1996-2000        Member, Scholarship Committee, CSU Scholarship Program for Future Scholars, CSU San Marcos
- 1998-1999        Chair, Search Committee, Instructional Support Technician, Department of Psychology, CSU San Marcos
- 1998-1999        Chair, Hiring Priorities Committee, College of Arts & Sciences, CSU San Marcos
- 1997-1998        Member, Ad Hoc Committee on Health Education, CSU San Marcos
- 1996-1998        Member, Advisory Board, Educational Opportunity Program, CSU San Marcos
- 1997-1998        Chair, Budget Committee, College of Arts & Sciences, CSU San Marcos
- 1997-1998        Member, Task Force on Departments and Programs, College of Arts & Sciences, CSU San Marcos
- 1997                Member, Search Committee, Director of Student Health Services, CSU San Marcos

- 1996-1997 Member, Search Committee, Cognitive Psychologist, Psychology Program, CSU San Marcos
- 1996 Member, Search Committee, Interim Coordinator of Clinical Services and Campus Physician, CSU San Marcos
- 1996 Member, Search Committee, Grants Proposal Specialist, CSU San Marcos Foundation
- 1995-1996 Member, Search Committee, Developmental Psychologist, Psychology Program, CSU San Marcos
- 1995-1996 Member, Academic Senate, CSU San Marcos
- 1995-1996 Member, Advisory Committee, National Hispanic Scholarship Fund, CSU San Marcos
- 1994-1996 Supervised renovations, purchase and installation of equipment (over \$200,000), and obtained appropriate certification for the Laboratory Animal Facility, CSU San Marcos
- 1993-1994 Member, Primary Research Proposal Focus Group, University of Michigan Medical School
- 1981-1983 Vice-President, Associated Graduate Students, University of California Irvine

**Peer Review:**

- 2007-2008 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (9 Faculty from Psychology and Human Development)
- 2005-2006 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (5 Faculty from Psychology)
- 2004-2005 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (8 Faculty from Psychology and Political Science)
- 2003-2004 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (7 Faculty from Psychology)
- 2002-2003 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (3 Faculty from Psychology and Human Development)
- 2001-2002 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (3 Faculty from Psychology and Biology)
- 1998-1999 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (8 Faculty from Psychology, Biology and Economics)
- 1997-1998 Peer Review Committees, College of Arts & Sciences, CSU San Marcos (9 Faculty from Psychology, Biology and Chemistry)

**INVITED PRESENTATIONS:**

- 2008 Summer Program in Neuroscience, Ethics & Survival, Marine Biological Laboratories, Woods Hole, MA, "Lady K and Friends: New Findings on the Behavioral Pharmacology of Ketamine and Related Drugs"
- 2008 Claremont Colleges Neuroscience Speakers Series, "Lady K and Hog: The Behavioral Pharmacology of Ketamine and Phencyclidine"
- 2007 Summer Program in Neuroscience, Ethics & Survival, Marine Biological Laboratories, Woods Hole, MA, "The Peril of Plasticity: A Role for Glutamate in the Behavioral Changes that Lead to Addiction"
- 2007 University of California San Diego Department of Anesthesiology, "Glutamate

- and the Peril of Plasticity: A Role for NMDA Receptors in the Changes that Lead to Opiate Addiction”
- 2006 San Diego State University Minority Research Infrastructure Support Program Colloquium Series, “Mysteries of Morphine: From Pain to Pleasure to Plasticity”
- 2006 Summer Program in Neuroscience, Ethics & Survival, Marine Biological Laboratories, Woods Hole, MA, “The Peril of Plasticity: A Role for Glutamate in the Behavioral Changes that Lead to Addiction”
- 2005 University of Arizona Minority Access to Research Careers Seminar Series, “Pain, Pleasure and Plasticity: The Effects of Opiates on the Brain and Behavior”
- 2005 Society for the Advancement of Chicanos and Native Americans in Science Annual Meeting, “Pain, Pleasure and Plasticity: The Effects of Opiates on the Brain and Behavior”
- 2005 College on Problems of Drug Dependence Annual Meeting, “Glutamate and the Problem of Plasticity: A Role for NMDA Receptors in Opiate Tolerance, Dependence and Sensitization”
- 2005 Summer Program in Neuroscience, Ethics & Survival, Marine Biological Laboratories, Woods Hole, MA, “The Problem of Plasticity: A Role for NMDA Receptors in the Behavioral Changes that Lead to Addiction”
- 2005 Plenary Presentation, Texas Behavioral Neuroscience Consortium, “Glutamate and Addiction: A Role for NMDA Receptors in Opiate Tolerance, Sensitization and Physical Dependence”
- 2004 Mira Costa College Bridges Seminar Series, “Adventures in *Psycho* Pharmacology: Research in Drugs, Brain and Behavior”,
- 2004 National Hispanic Science Network on Drug Abuse Annual Meeting, “Motivational Change in Addiction: Results from Animal Models”
- 2004 Plenary Presentation, Caribbean Basin and Hispanic Addiction Technology Transfer Center Conference, San Juan, PR, “Dopamine and Beyond: The Behavioral Biology of Drug Abuse and Addiction”
- 2004 Summer Program in Neuroscience, Ethics & Survival, Marine Biological Laboratories, Woods Hole, MA, “The Peril of Plasticity: A Role for NMDA Receptors in the Behavioral Changes that Lead to Addiction”
- 2003 Office for Biomedical Research and Training Seminar Series, California State University San Marcos, “The Neurobiology of Opiates: From Pain to Pleasure to Plasticity”
- 2003 National Hispanic Science Network on Drug Abuse Annual Meeting, “National Strategic Plan for Research on Hispanic Drug Abuse: Neuroscience”
- 2003 Behavioral Neuroscience Seminar Series, Arizona State University, “Glutamate and Addiction: A Role for NMDA Receptors in Opiate Tolerance, Sensitization and Physical Dependence”
- 2002 1er Congreso Del Instituto Nacional De Investigación Y Formación Sobre Drogas, Madrid, Spain, “Introduction to Cocaine and Ecstasy”
- 2002 Department of Biology, University of Texas at San Antonio. "Opiate Tolerance, Dependence and Sensitization: Involvement of NMDA Receptors in Drug-Induced Behavioral and Neural Plasticity"
- 1996 Brain-Mind Seminar Series, CSU San Marcos, “Pleasure, Pain, Addiction and the Brain”



- 1995 National Alliance for Research on Schizophrenia and Depression Annual Scientific Meeting, “Are NMDA Receptors Involved in the Therapeutic Actions of Antidepressants?”
- 1994 National Institute on Drug Dependence Technical Review: *The Role of Glutamatergic Systems in the Development of Opiate Addiction*, “Inhibition of Opiate Tolerance and Dependence by Non-Competitive NMDA Receptor Antagonists: Evidence of a Role for NMDA Receptors in Opiate-Dependent Neural and Behavioral Plasticity”
- 1994 Collegium Internationale Neuro-Psychopharmacologicum, “A Role for N-Methyl-D-Aspartate Receptors in Opiate Tolerance and Dependence”
- 1994 Department of Medical Psychology, Oregon Health Sciences University, “Psychopharmacological and Neurochemical Studies of Opiate Tolerance and Dependence”
- 1994 Department of Psychology, California State University San Marcos, “Endogenous Opioids and Addiction”
- 1993 MBRs Colloquium, University of Southern Colorado, “Psychopharmacological and Neurochemical Studies of Opiate Tolerance and Physical Dependence”
- 1993 Opioid Seminar Series, University of Michigan, “A Role for N-Methyl-D-Aspartate Receptors in Opiate Tolerance and Dependence”
- 1992 American Pain Society Annual Meeting, “Evidence of a Role for NMDA Receptors in Opiate Tolerance and Physical Dependence”
- 1991 Biopsychology Colloquium, University of Michigan, “Psychopharmacological and Neurochemical Studies of Opiate Tolerance and Dependence”
- 1990 Neurology Neuroscience Conference, University of Michigan, “Opiates and Opioids: Sites of Action and Recent Findings in Tolerance and Dependence”

## TEACHING (COURSES):

### CSU San Marcos:

- BIOL 488: Seminar in Biomedical Research
- GEL (General Education) 101: The Student, The University, The Community
- PSYC 300: Computer Applications in Psychology
- PSYC 363: Drugs, Brain, Behavior and Society
- PSYC 390: Laboratory in Animal Learning
- PSYC 391: Laboratory in Physiological Psychology
- PSYC 461: Neuropsychopharmacology
- PSYC 556: Proseminar in Comparative/Physiological Psychology
- PSYC 600: Contemporary Issues in Psychology

### University of Michigan:

- PSYCH 434: Human Neuropsychology
- Neuroscience for Psychiatric Residents (Lecturer)
- King-Chavez-Parks Workshop for Minority and Disadvantaged Students (Laboratory Instructor)
- Drugs, Brain and Behavior: An Introduction to the Neuropsychopharmacology of Drug Abuse (Lecturer)

**RESEARCH MENTORING:****CSU San Marcos:**

- 1995-present Graduate Student Mentoring (2-5 graduate students per semester)  
 1995-present Independent Study/Independent Research Undergraduate Student Mentoring (3-5 undergraduate students per semester)

**University of Michigan:**

- 1993-1994 Student Research Opportunity Program (1 student/quarter)  
 1987-1994 Work-Study Student Researchers (2-3 students/quarter)  
 1991 Summer Biomedical Research Program for Minority Students (2 students)  
 1988-1989 Undergraduate Honors Projects (2 students)  
 1988 Senior Thesis, Kalamazoo College (1 student)

**University of California, Irvine:**

- 1985 Undergraduate Honors Projects (2 students)

**Summer Research Training Programs:**

- 2004-present Resident Faculty, Summer Program in Neuroscience, Ethics & Survival (SPINES), Marine Biological Laboratories (graduate students and postdocs)  
 2003-present Core Faculty, Summer Research Training Institute, National Hispanic Science Network on Drug Abuse (graduate students and postdocs)  
 2002-2006 Core Faculty, Summer Research Training Program, California State University San Marcos (undergraduates)

**MASTERS THESIS AND DOCTORAL DISSERTATION SUPERVISION:**

- In progress Chair, Master's Thesis Committee, Brian Sullivan, Department of Psychology, CSU San Marcos  
 In progress Chair, Master's Thesis Committee, Monique Smith, Department of Psychology, CSU San Marcos  
 In progress Chair, Master's Thesis Committee, Nigel Hartfield, Department of Psychology, CSU San Marcos, "Effects of age and intermittent administration on sensitization to PCP and ketamine"  
 2007 Member, Doctoral Dissertation Committee, Ulises Ricoy, Department of Biology, University of Texas at San Antonio, "Intracranial methamphetamine induced place conditioning and self administration via reverse microdialysis: Role of hippocampal formation."  
 2005 Chair, Master's Thesis Committee, Kathleen Warmoth, Department of Psychology, CSU San Marcos, "Behavioral interactions of NMDA receptors and antidepressants"  
 2004 Chair, Master's Thesis Committee, Ian Mendez, Department of Psychology, CSU San Marcos, "Effects of NMDA receptor antagonists on sensitization to morphine-induced locomotor stimulation in rats."  
 2003 Chair, Master's Thesis Committee, David Peterson, Department of Psychology, CSU San Marcos, "The effects of memantine on opiate tolerance, sensitization and physical dependence."  
 2002 Chair, Master's Thesis Committee, Karen Watorski, Department of Psychology, CSU San Marcos, "The effects of NMDA receptor antagonists on acute mu

- opioid analgesia in the rat.”
- 2001 Member, Master’s Thesis Committee, Rounak Nassirpour, Department of Biology, CSU San Marcos, "A vasopressin-like transmitter in the medicinal leech.”
- 1999 Chair, Master’s Thesis Committee, Michelle Swadley-Lewellen, Department of Psychology, CSU San Marcos, “Are NMDA receptors involved in tolerance and sensitization or physical dependence to the locomotor effects of morphine?”
- 1999 Member, Master’s Thesis Committee, Kris Leppien-Christensen, Department of Psychology, CSU San Marcos, “Relapse as a function of social support, coping, and situational confidence after smoking cessation training.”

### SCIENTIFIC PUBLICATIONS:

- Mendez, I.A. and Trujillo, K.A. (2008). NMDA receptor antagonists inhibit locomotor sensitization and analgesic tolerance in rats. *Psychopharmacology*, 196, 497-509.
- Trujillo, K.A., Zamora, J.J. and Warmoth, K.P. (2008). Increased response to ketamine following treatment at long intervals: Implications for intermittent use. *Biological Psychiatry*, 63, 178-183.
- Trujillo, K.A., Castañeda, E., Martínez, D. and González, G. (2006). Biological research on drug abuse and addiction in Hispanics: Current status and future directions. *Drug and Alcohol Dependence*, 84 (Suppl), S17-S28.
- Trujillo, K.A., Kubota, K.S. and Warmoth, K.P. (2004). Continuous administration of opioids produces locomotor sensitization. *Pharmacology Biochemistry & Behavior*, 79, 661-669.
- Trujillo, K.A. (2004). The neurobiology of opiate tolerance, dependence and sensitization: Mechanisms of NMDA receptor-dependent synaptic plasticity. In: T. Palomo, R. Beninger, P. Sokoloff and T. Archer (Eds.), *Strategies for Studying Brain Disorders, Vol.6: Neurodevelopmental Liabilities in Brain Disease States*, Madrid, Spain, Fundación Cerebro y Mente.
- Crowley, S., Fuller, D., Law, W., McKeon, D., Ramirez, J.J., Trujillo, K.A. and Wideman, E. (2004). Improving the climate in teaching and research environments for members of underrepresented minorities. *The Neuroscientist*, 9, 1-5. (all coauthors contributed equally to this article and are therefore listed in alphabetical order)
- Trujillo, K.A., Castañeda, E., Martínez, D., Thompson, K. and González, G. (2003). Neuroscience Research on Hispanic Drug Abuse. In: H. Amaro and D.E. Cortes (Eds.) *National Strategic Plan on Hispanic Drug Abuse Research* (pp. 43-66), Miami, FL, National Hispanic Science Network on Drug Abuse.
- Amaro, H., Marquez, E.D., Martinez, J. and Trujillo, K. (2003). Training of Hispanic Drug Abuse Researchers. In: H. Amaro and D.E. Cortes (Eds.) *National Strategic Plan on Hispanic Drug Abuse Research* (pp. 167-175), Miami, FL, National Hispanic Science Network on Drug Abuse.
- Redwine, K.E. and Trujillo, K.A. (2003). Effects of NMDA receptor antagonists on acute mu opioid analgesia in the rat, *Pharmacology Biochemistry & Behavior*, 76, 361-372.
- Trujillo, K.A. (2003). The role of NMDA receptors in opiate-induced neural and behavioral plasticity: A review of preclinical studies, a cellular model, and clinical implications. In: B.H. Herman, J. Frankenheim, R. Litten, P.H. Sheridan, F.F. Weight and S.R. Zukin (Eds.), *Glutamate and Addiction*, (pp. 295-322) Totowa, NJ, Humana Press.

- Trujillo, K.A. (2002). The neurobiology of opiate tolerance, dependence and sensitization: Mechanisms of NMDA receptor-dependent synaptic plasticity. *Neurotoxicity Research*, 4, 373-391.
- Bespalov, A.Y. and Trujillo, K.A. (2002). Drug tolerance. In: D. Lodge, W. Danysz and C.G. Parsons (Eds.), *Ionotropic Glutamate Receptors as Therapeutic Targets*, (pp. 301-334) Mountain Home, TN, F.P. Graham Publishing.
- Trujillo, K.A. (2000). Are NMDA receptors involved in opiate-induced neural and behavioral plasticity? A review of preclinical studies. *Psychopharmacology*, 151, 121-141.
- Trujillo, K.A. (1999). Cellular and molecular mechanisms of opioid tolerance and dependence: Progress and pitfalls. *Pain Forum*, 8, 29-33.
- Liberzon, I., Trujillo, K.A., Akil, H. and Young, E.A. (1997). Motivational properties of oxytocin in the conditioned place preference paradigm. *Neuropsychopharmacology*, 17, 354-359.
- Trujillo, K.A. (1995). Effects of non-competitive N-methyl-D-aspartate receptor antagonists on opiate tolerance and physical dependence. *Neuropsychopharmacology*, 13, 301-307.
- Trujillo, K.A., Bronstein, D.M., Sanchez, I.O. and Akil, H. (1995). Effects of chronic opiate and opioid antagonist treatment on striatal opioid peptides. *Brain Research*, 698, 69-78.
- Gutstein, H.B., Trujillo, K.A. and Akil, H. (1995). Does chronic pain affect the rate of morphine tolerance development? *Brain Research*, 680, 173-179.
- Trujillo, K.A. and Akil, H. (1995). Excitatory amino acids and drugs of abuse: A role for N-methyl-D-aspartate receptors in drug tolerance, sensitization and physical dependence. *Drug and Alcohol Dependence*, 38, 139-154.
- Trujillo, K.A. and Akil, H. (1994). Inhibition of opiate tolerance by non-competitive NMDA receptor antagonists. *Brain Research*, 633, 178-188.
- Gutstein, H.B. and Trujillo, K.A. (1993). MK-801 inhibits the development of morphine tolerance at spinal sites. *Brain Research*, 626, 332-334.
- Bronstein, D.M., Day, N.C., Gutstein, H., Trujillo, K.A. and Akil, H. (1993). Pre- and post-translational regulation of  $\beta$ -endorphin biosynthesis in the CNS: Effects of chronic naltrexone treatment. *Journal of Neurochemistry*, 60, 40-49.
- Trujillo, K.A., Herman, J.P., Schäfer, M.K.-H., Mansour, A., Meador-Woodruff, J., Watson, S.J. and Akil, H. (1993). Drug reward and brain circuitry: Recent advances and future directions. In: S.G. Korenman and J.D. Barchas (Eds.), *Biological Basis of Substance Abuse*, (pp. 119-142) New York: Oxford University Press.
- Day, R., Trujillo, K.A. and Akil, H. (1993). Prodynorphin peptide processing. In: A. Herz (Ed.), *Opioids I. Handbook of Experimental Pharmacology, Vol. 104/I*, (pp. 449-470) New York: Springer-Verlag.
- Trujillo, K.A., Bronstein, D.M. and Akil, H. (1992). Regulation of opioid peptides by self-administered drugs. In: R.P. Hammer (Ed.), *The Neurobiology of Opiates*, (pp. 223-256) Boca Raton: CRC Press.
- Trujillo, K.A. and Akil, H. (1991). Inhibition of morphine tolerance and dependence by the NMDA receptor antagonist MK-801. *Science*, 251, 85-87.
- Trujillo, K.A. and Akil, H. (1991). Opiate tolerance and dependence: Recent findings and synthesis. *The New Biologist*, 3, 915-923.
- Trujillo, K.A. and Akil, H. (1991). The NMDA receptor antagonist MK-801 increases morphine catalepsy and lethality. *Pharmacology Biochemistry & Behavior*, 38, 673-675.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1991). Naloxone blockade of amphetamine place preference conditioning. *Psychopharmacology*, 104, 265-274.
- Trujillo, K.A., Day, R. and Akil, H. (1990). Regulation of striatonigral prodynorphin peptides by dopaminergic agents. *Brain Research*, 518, 244-256.

- Trujillo, K.A. and Akil, H. (1990). Opioid and non-opioid behavioral actions of dynorphin A and the dynorphin analogue DAKLI. *NIDA Research Monograph*, 105, 397-398.
- Trujillo, K.A. and Akil, H. (1989). Changes in prodynorphin peptide content following treatment with morphine or amphetamine: Possible role in mechanisms of action of drugs of abuse. *NIDA Research Monograph*, 95, 550-551.
- Trujillo, K.A. and Akil, H. (1989). Pharmacological regulation of striatal prodynorphin peptides. *Progress in Clinical and Biological Research*, 328, 223-226.
- Watson, S.J., Trujillo, K.A., Herman, J.P. and Akil, H. (1989). Neuroanatomical and neurochemical substrates of drug-seeking behavior: Overview and future directions. In A. Goldstein (Ed.), *Molecular and Cellular Aspects of the Drug Addictions*, (pp. 29-91). New York: Springer-Verlag.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1989). Naloxone suppression of self-stimulation is independent of response difficulty. *Pharmacology Biochemistry & Behavior*, 33, 147-155.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1989). Opiate antagonists and self-stimulation: Extinction-like response patterns suggest selective reward deficit. *Brain Research*, 492, 15-28.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1989). Effects of opiate antagonists and their quaternary analogues on nucleus accumbens self-stimulation. *Behavioral Brain Research*, 33, 181-188.
- Bronstein, D.M., Trujillo, K.A. and Akil, H. (1988). Effects of morphine on endogenous opioid biosynthesis. *NIDA Research Monograph*, 90, 256-265.

#### **ABSTRACTS AND SCIENTIFIC CONFERENCE PRESENTATIONS:**

- Trujillo, K. and Pert, A. (1980). Differential behavioral effects of type I and type II opiate receptor activation in rat brain. *Society for Neuroscience Abstracts*, 6, 36.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1983). Endorphin-catecholamine interactions in nucleus accumbens self-stimulation. *Society for Neuroscience Abstracts*, 9, 277.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1984). Naltrexone and self-stimulation: extinction-like response pattern suggests selective reward deficit. *Society for Neuroscience Abstracts*, 10, 308.
- Belluzzi, J.D., Trujillo, K.A., Sun, C.D. and Stein, L. (1985). Naloxone suppresses self-stimulation by central blockade of reinforcement. *Society for Neuroscience Abstracts*, 11, 1172.
- Trujillo, K.A., Belluzzi, J.D., Tabrizi, P.R. and Stein, L. (1985). Naloxone blockade of amphetamine reward in place preference conditioning. *Society for Neuroscience Abstracts*, 11, 1173.
- Trujillo, K.A., Belluzzi, J.D. and Stein, L. (1986). Does endogenous cholecystokinin modulate reinforcement? *Society for Neuroscience Abstracts*, 12, 672.
- Trujillo, K.A., Day, R. and Akil, H. (1987). Increases in striatonigral dynorphins following repeated amphetamine injections. *Society for Neuroscience Abstracts*, 13, 637.
- Trujillo, K.A., Bronstein, D.M. and Akil, H. (1988). Increases in prodynorphin peptides following chronic morphine treatment. *Society for Neuroscience Abstracts*, 14, 543.
- Trujillo, K.A. and Akil, H. (1989). Changes in prodynorphin peptides following treatment with morphine or amphetamine. *Committee on Problems of Drug Dependence Annual Scientific Meeting*.
- Trujillo, K.A. and Akil, H. (1989). Pharmacological manipulation of brain prodynorphin peptides. *International Narcotics Research Conference*.
- Trujillo, K.A. and Akil, H. (1989). Naltrexone-amphetamine interactions in the regulation of striatal prodynorphin peptides. *Society for Neuroscience Abstracts*, 15, 982.

- Trujillo, K.A. and Akil, H. (1990). Changes in striatonigral prodynorphin peptides following treatment with drugs of abuse: Effects of morphine and amphetamine. *Albert J. Silverman Conference for Psychiatry Research*.
- Trujillo, K.A., Savina, A.J. and Akil, H. (1990). Opioid and non-opioid behavioral actions of dynorphin A. *Committee on Problems of Drug Dependence Annual Scientific Meeting*.
- Trujillo, K.A. and Akil, H. (1990). Behavioral interactions between morphine and MK-801: Analgesia, tolerance, dependence and lethality. *Society for Neuroscience Abstracts*, 16, 211.
- Bronstein, D.M., Schäfer, M.K.-H., Trujillo, K.A., Watson, S.J. and Akil, H. (1990). Pro-opiomelanocortin (POMC) mRNA in the nucleus tractus solitarius and other extra-hypothalamic brain regions. *Society for Neuroscience Abstracts*, 16, 1026.
- Trujillo, K.A., Bronstein, D.M. and Akil, H. (1991). Behavioral and neurochemical interactions between morphine and the NMDA receptor antagonist MK-801. *Committee on Problems of Drug Dependence Annual Scientific Meeting*.
- Akil, H. and Trujillo, K.A. (1991). Effects of chronic opiate administration. *Neuroscience Facts*, 2 (18), 2.
- Trujillo, K.A., Bronstein, D.M. and Akil, H. (1991). Inhibition of morphine tolerance and dependence by MK-801: Behavioral and neurochemical studies. *Society for Neuroscience Abstracts*, 17, 331.
- Bronstein, D.M., Day, N.C., Gutstein, H.B., Trujillo, K.A. and Akil, H. (1991). Effects of chronic naltrexone treatment on  $\beta$ -endorphin peptide levels and POMC mRNA in rat CNS. *Society for Neuroscience Abstracts*, 17, 396.
- Trujillo, K.A. (1991). NMDA receptor antagonist MK-801 and opiates. *Biomedicine and Pharmacotherapy*, 45, 423.
- Trujillo, K.A. and Akil, H. (1992). Inhibition of opiate tolerance and dependence by NMDA receptor antagonists. *College on Problems of Drug Dependence/International Narcotics Research Conference Joint Meeting*.
- Gutstein, H.B., Bronstein, D.M., Day, N.C., Trujillo, K.A. and Akil, H. (1992). Chronic naltrexone modulates  $\beta$ -endorphin peptide and mRNA levels in rat CNS. *Anesthesia and Analgesia*, 74, S125.
- Gutstein, H.B., Trujillo, K.A. and Akil, H. (1992). Does MK-801 inhibit the development of morphine tolerance in the rat at spinal sites? *Anesthesiology*, 77, A737.
- Trujillo, K.A. and Akil, H. (1992). Inhibition of morphine tolerance by phencyclidine. *Society for Neuroscience Abstracts*, 18, 369.
- Gutstein, H.B., Trujillo, K.A. and Akil, H. (1992). MK-801 inhibits the development of morphine tolerance in the rat at spinal sites. *Society for Neuroscience Abstracts*, 18, 369.
- Trujillo, K.A. and Akil, H. (1993). Inhibition of opiate tolerance by NMDA receptor antagonists. *Albert J. Silverman Conference for Psychiatry Research*.
- Gutstein, H.B., Trujillo, K.A. and Akil, H. (1993). Chronic pain decreases morphine analgesic potency in rats. *Seventh World Congress on Pain Abstracts*, Abstract 573.
- Trujillo, K.A. and Akil, H. (1993). Does MK-801 block naloxone-precipitated opiate withdrawal? *Society for Neuroscience Abstracts*, 19, 1246.
- Trujillo, K.A. (1994). A role for N-methyl-D-aspartate receptors in opiate tolerance and dependence. *Neuropsychopharmacology*, 10, Supplement 3S Part 1, 560S.
- Trujillo, K.A., Chalmers, D.T., Boateng, K., Watson, S.J. and Akil, H. (1994). Methamphetamine neurotoxicity produces robust changes in open field behavior in rats. *Society for Neuroscience Abstracts*, 20, 1027.
- Trujillo, K.A., Chalmers, D.T., Boateng, K., Watson, S.J. and Akil, H. (1995). Persistent changes in open field behavior following methamphetamine neurotoxicity in rats. *College on Problems*

- of Drug Dependence Annual Scientific Meeting.*
- Trujillo, K.A., Chalmers, D.T., Boateng, K., Watson, S.J. and Akil, H. (1996). Persistent changes in open field behavior following methamphetamine neurotoxicity in rats. *NIDA Research Monograph*, 162, 294.
- Trujillo, K.A. and Swadley-Lewellen, R.M. (1996). A comparison of morphine analgesia in the rat paw withdrawal and tail flick tests. *International Narcotics Research Conference.*
- Trujillo, K.A., Van Treijen, J.M., Lanning, C. and Chinn, A.B. (1996). Potent behavioral interactions between desipramine and the NMDA receptor antagonist MK-801 in rats. *Society for Neuroscience Abstracts*, 22, 180.
- Chinn, A.B. and Trujillo, K.A. (1996). Drugs and the brain: A World Wide Web tutorial in neuropsychopharmacology. *Society for Neuroscience Abstracts*, 22, 246.
- Trujillo, K.A. (1996). The study of N-methyl-D-aspartate receptors and antidepressants. *NARSAD Research Newsletter*, Summer 1996, 8.
- Swadley-Lewellen, R.M. and Warmoth, K. (Trujillo, K.A., Faculty Advisor) (1997). Tolerance and sensitization to the locomotor effects of morphine in rats. *California State University Statewide Student Research Competition.*
- Trujillo, K.A. and Swadley-Lewellen, R.M. (1997). Tolerance, sensitization and physical dependence to the locomotor effects of morphine in rats. *Society for Neuroscience Abstracts*, 23, 2413.
- Warmoth, K. (Trujillo, K.A., Faculty Advisor) (1998). The acute behavioral interaction between PCP and desipramine in rats. *California State University Statewide Student Research Competition.*
- Swadley-Lewellen, R.M. and Trujillo, K.A. (1998). Are NMDA receptors involved in tolerance and sensitization to the locomotor effects of morphine? *Society for Neuroscience Abstracts*, 24, 1968
- Trujillo, K.A., Norris, B., Warmoth, K. and Babin, N.A. (1998). Will the real Sprague-Dawley rat please stand up? *Society for Neuroscience Abstracts*, 24, 959.
- Lewellen, R.M., Watorski, K., Warmoth, K. and Trujillo, K.A. (1999). Acute behavioral interactions between opiates and NMDA receptor antagonists in rats. *NIDA Research Monograph*, 179, 95. (Presented at the 1998 College on Problems of Drug Dependence Meeting).
- Trujillo, K.A., Warmoth, K., Van Treijen, J., Lanning, C. and Chinn, A.B. (1999). Behavioral effects of PCP and MK-801 are potently increased by desipramine. *NIDA Research Monograph*, 179, 300. (Presented at the 1998 College on Problems of Drug Dependence Meeting).
- Warmoth, K. (Trujillo, K.A., Faculty Advisor) (1999). Serotonin 5-HT<sub>2A</sub> receptor and behavior in rats. *California State University Statewide Student Research Competition* (Second Place Division Award).
- Babin, N. (Trujillo, K.A., Faculty Advisor) (1999). Pharmacological and behavioral differences in rats obtained from different suppliers. *California State University Statewide Student Research Competition*
- Trujillo, K.A. and Watorski, K. (1999). Does MK-801 affect the expression of opiate tolerance, sensitization or physical dependence? *Society for Neuroscience Abstracts*, 25, 2076.
- Warmoth, K., Trujillo, K.A., Ruzek, E., Glen, R., Smith, J., Thomsen, W., Behan, D.P. and Chalmers, D.T. (1999). AR116,102, a novel high affinity 5HT<sub>2A</sub> receptor inverse agonist with in vivo efficacy. *Society for Neuroscience Abstracts*, 25, 1201.
- Menzaghi, F., Trujillo, K.A., Thomsen, W.J., Whelan, K., Russo, J.F., Reyes, H.S., Beely, N., Liaw, C.W., Hodgkin, E.E., Glen, R., Smith, J., Behan, D.P. and Chalmers, D.T. (2000).

- Identification of a novel selective 5-HT<sub>2A</sub> inverse agonist as putative atypical antipsychotic using constitutively activated human 5-HT receptors. *American Society for Pharmacology and Therapeutics Annual Scientific Meeting*.
- Menzaghi, F., Whelan, K., Trujillo, K.A., Hittner, J., Thomsen, W.J., Beely, N., Hodgkin, E.E., Glen, R., Smith, J., Behan, D.P. and Chalmers, D.T. (2000). AR116081, a novel selective 5-HT<sub>2A</sub> inverse agonist as a putative atypical antipsychotic: Comparative studies with clozapine and haloperidol. *International Journal of Neuropsychopharmacology*, 3, S136. (Presented at the 2000 Collegium Internationale Neuro-Psychopharmacologicum (CINP)).
- Warmoth, K. (Trujillo, K.A., Faculty Advisor) (2000). Effects of HA966, an NMDA receptor glycine site partial agonist, on the development of morphine tolerance and sensitization. *California State University Statewide Student Research Competition*
- Peterson, D. (Trujillo, K.A., Faculty Advisor) (2000). The low affinity NMDA receptor antagonist memantine produces complex effects on morphine-induced locomotion in rats. *California State University Statewide Student Research Competition*
- Albertson, D. (Trujillo, K.A., Faculty Advisor) (2000). Attenuation of behavioral effects of MK-801 in laboratory rats by HA966, an NMDA receptor glycine site partial agonist. *California State University Statewide Student Research Competition*. (Second Place Division Award).
- Trujillo, K.A., Warmoth, K.P., Peterson, D.J., Albertson, D.N. and Swadley-Lewellen, R.M. (2000). NMDA receptor blockade mimics tolerance and sensitization to the locomotor effects of morphine. *International Narcotics Research Conference*.
- Trujillo, K.A., Warmoth, K.P., Peterson, D.J., Albertson, D.N. and Swadley-Lewellen, R.M. (2000). Potential role for NMDA receptors in acute locomotor effects of opiates. *Society for Neuroscience Abstracts*, 26, 272.
- Morgan, C., Burke, S. Lu, X., Trujillo, K., Watson, J. and Cone, R. (2000). Anxiolytic role of the melanocortin-5 receptor. *Society for Neuroscience Abstracts*, 26, 484.
- Hittner, J.M., Whelan, K.T., Trujillo, K.A., Thomsen, W.J., Russo, J.F., Reyes, H.S., Glen, R., Smith, J., Beely, N., Liaw, C.W., Behan, D.P., Chalmers, D.T. and Menzaghi, F.(2000). A selective 5-HT<sub>2A</sub> receptor inverse agonist with preclinical antipsychotic profile in rats. *Society for Neuroscience Abstracts*, 26, 1426.
- Menzaghi, F., Whelan, K.T., Hittner, J.M., McDonald, J.S., Risbrough, V.B., Trujillo, K.A., Lu, X.Y., Villegas, S., Gore, M., Liaw, C.W., Beeley, N., Watson, S.J., Behan, D.P. and Chalmers, D.T. (2000). The orphan G-protein-coupled receptor ARE113 is a novel receptor target for obesity. *Society for Neuroscience Abstracts*, 26, 1529.
- Mendez, I.A. and Trujillo, K.A. (2000). Differential effects of NMDA receptor antagonists on morphine analgesia in rats. *National Minority Research Symposium*.
- Morgan, C., Thomas, R.E., Trujillo, K., Butler, A. and Cone, R.D. (2000). Anxious and stress-induced behaviors in mice lacking the MC3R, MC4R, and MC5R melanocortin receptors. *American College of Neuropsychopharmacology Annual Scientific Meeting*.
- Warmoth, K. (Trujillo, K.A., Faculty Advisor) (2001). Potential role for NMDA receptors in the depressant effects of opioids. *California State University Statewide Student Research Competition*
- Albertson, D. (Trujillo, K.A., Faculty Advisor) (2001). Inhibition of the development of morphine tolerance and sensitization by MK-801, a PCP analogue and NMDA receptor blocker. *California State University Statewide Student Research Competition*.
- Peterson, D.J. and Trujillo, K.A. (2001). The NMDA receptor antagonist memantine inhibits morphine-induced behavioral and neural plasticity. *Drug and Alcohol Dependence*, 63 (Suppl. 1), S122. (Presented at the 2001 College on Problems of Drug Dependence Annual Meeting).



- Trujillo, K.A., Warmoth, K.P., Mendez, I.A., Waterski, K., Peterson, D.J., Albertson, D.N. and Swadley-Lewellen, R.M. (2001). Contrasting effects of NMDA receptor antagonists on opiate analgesia and locomotion. *Drug and Alcohol Dependence*, 63 (Suppl. 1), S159-S160. (Presented at the 2001 College on Problems of Drug Dependence Annual Meeting).
- Runno, A. (Trujillo, K.A., Faculty Advisor) (2001). Increased latencies to complete a Morris water maze following post-training injections of the NMDA receptor antagonist, MK-801. *Annual Biomedical Research Conference for Minority Students*.
- Trujillo, K.A., Warmoth, K.P., Peterson, D.J., Albertson, D.N., Waterski, K. and Swadley-Lewellen, R.M. (2001). NMDA receptor antagonists inhibit the development of tolerance and sensitization to the locomotor effects of opiates. *Society for Neuroscience Abstracts*, 27, Abstract #224.11.
- Warmoth, K. (Trujillo, K.A., Faculty Advisor) (2002). Potential role for NMDA receptors in opiate-induced behavioral plasticity. *California State University Statewide Student Research Competition* (First Place Division Award).
- Mendez, I.A. (Trujillo, K.A., Faculty Advisor) (2002). Effects of the NMDA receptor antagonist MK-801 on tolerance to morphine-induced analgesia. *California State University Statewide Student Research Competition* (Second Place Division Award).
- Waterski, K. and Trujillo, K.A. (2002). Inconsistent effects of NMDA receptor antagonists on opiate analgesia. *International Narcotics Research Conference*.
- Trujillo, K.A., Warmoth, K.P., Kubota, K., Peterson, D.J. and Ruzek, E. (2002). Sensitization to the locomotor stimulant effect of morphine. *International Narcotics Research Conference*.
- Warmoth, K.P. and Trujillo K.A. (2002). NMDA receptor antagonists inhibit tolerance and sensitization to the locomotor effects of opiates. *International Narcotics Research Conference*.
- Peterson, D.J., Mendez, I.A., Lewellen, R.M. and Trujillo, K.A. (2002). NMDA receptor antagonists prevent and slowly reverse opiate-induced behavioral and neural plasticity. *International Narcotics Research Conference*.
- Trujillo, K.A., Warmoth, K.P., Peterson, D.J., and Mendez, I.A. (2002). NMDA receptors are involved in opiate-induced behavioral and neural plasticity. *Society for Neuroscience Abstracts*, 28, Abstract #608.17.
- Mendez, I.A. (Trujillo, K.A., Faculty Advisor) (2003). Effects of the NMDA receptor antagonist MK-801 on tolerance to opiate induced analgesia in rats. *California State University Statewide Student Research Competition* (First Place Division Award).
- Zamora, J.J. (Trujillo, K.A., Faculty Advisor) (2003). Differences in behavioral effects of psychomotor stimulants. *California State University Statewide Student Research Competition* (Second Place Division Award).
- Malfavon, M., Trujillo, K.A., Blanes, E. X. and Allen, M.A. (2003). Distinct locomotor effects of two psychomotor stimulants, *Annual Biomedical Research Conference for Minority Students*, Abstract #C85.
- Mendez, I.A., Trujillo, K.A. and Rocha, V. (2003). NMDA receptors are involved in opiate-induced neural and behavioral plasticity. *Annual Biomedical Research Conference for Minority Students*, Abstract #G118.
- Mendez, I.A. and Trujillo, K.A. (2003). NMDA receptor involvement in opiate-induced neural and behavioral plasticity: Studies with morphine, buprenorphine and methadone, *National Hispanic Science Network Annual Meeting*.
- Trujillo, K.A., Warmoth, K.P. and Mendez, I.A. (2003). The development of fentanyl and methadone tolerance and physical dependence are inhibited by the NMDA receptor antagonist MK-801. *Society for Neuroscience Abstracts*, Abstract #109.8.

- Mendez, I.A. and Trujillo, K.A. (2004). NMDA receptor antagonists inhibit morphine tolerance and sensitization in rats: Effects of MK-801, memantine and LY235959, *National Hispanic Science Network Annual Meeting*.
- Trujillo, K.A. and Warmoth, K.P. (2004). Differences in morphine tolerance and sensitization between adolescent and adult rats. *Society for Neuroscience Abstracts*, Abstract #805.11.
- Hartfield, N. (Trujillo, K.A., Faculty Advisor) (2005). Sensitization following intermittent PCP administration. *California State University Statewide Student Research Competition*.
- Hernandez, P. (Trujillo, K.A., Faculty Advisor) (2005). Effects of lamotrigine on morphine-induced locomotor behavior. *California State University Statewide Student Research Competition* (Second Place Division Award).
- Trujillo, K.A. and Warmoth, K.P. (2005). Adolescent rats are more sensitive than adults to the acute and chronic behavioral effects of phencyclidine (PCP). *Society for Neuroscience Abstracts*, Abstract #1031.11.
- Hartfield, N. (Trujillo, K.A., Faculty Advisor) (2006). Behavioral sensitization to PCP ("Angel dust"): Effects of interval between injection and environment. *California State University Statewide Student Research Competition*.
- Smith, M. (Trujillo, K.A., Faculty Advisor) (2006). Effects of morphine and methamphetamine "speedball" on activity in rats. *California State University Statewide Student Research Competition*. (First Place Division Award).
- Guaderrama, M., Smith, M. and Trujillo, K.A. (2006). Enhanced behavioral response to methamphetamine and morphine "speedball" in rats. *National Hispanic Science Network Annual Meeting*.
- Smith, M., Guaderrama, M., and Trujillo, K.A. (2006). Potent behavioral interaction between morphine and methamphetamine in rats. *Annual Biomedical Conference for Minority Students*.
- Trujillo, K.A., Hartfield, N., Heller, C.Y. and Warmoth, K.P. (2006). Sensitization to ketamine ("Special K") following weekly administration: implications for "rave" use. *Society for Neuroscience Abstracts*, Abstract #394.22.
- Garcia, C. (Trujillo, K.A., Faculty Advisor) (2007). The effects of ketamine and methamphetamine on locomotor behavior in rats. *California State University Statewide Student Research Competition*.
- Guaderrama, M. (Trujillo, K.A., Faculty Advisor) (2007). Methamphetamine/morphine and methamphetamine/codeine "speedball": An enhanced behavioral response in rats. *California State University Statewide Student Research Competition*. (First Place Division Award).
- Smith, M.L., Guaderrama, M.M., and Trujillo, K.A. (2007). "Speedball" and behavior: Potent stimulant interaction between methamphetamine and morphine, *Society for Neuroscience Abstracts* Abstract #387.13.
- Guaderrama, M.M., Smith, M.L. and Trujillo, K.A. (2007). "Speedball" and behavior: Potent stimulant interaction between methamphetamine and codeine, but not oxycodone, *Society for Neuroscience Abstracts* Abstract #387.14.
- Trujillo, K.A., Mendez, I.A., Warmoth, K.P. and Athanacio, J. (2007). Pharmacological assessment of the role of glutamate in morphine-induced locomotor stimulation, *Society for Neuroscience Abstracts* Abstract #387.16.
- Heller, C.Y. and Trujillo, K.A. (2007). Sensitization to ketamine ("Special K"): Effects of injection interval and environmental conditioning, *Society for Neuroscience Abstracts* Abstract #813.3.
- Sullivan, B. and Trujillo, K.A. (2007). Sensitization to ketamine in a 'bump' model: Robust effect following different patterns of administration, *Society for Neuroscience Abstracts* Abstract #813.13.

- Garcia, C. and Trujillo, K.A. (2007). Club drug interactions: Effects of ketamine and methamphetamine combinations on locomotor behavior in rats, *Society for Neuroscience Abstracts* Abstract #813.15.
- Trujillo, K.A. (2007). Adolescent rats are more sensitive than adults to the acute and chronic behavioral effects of ketamine and phencyclidine. *Basic Science Datablitz, National Hispanic Science Network on Drug Abuse Annual Conference*.
- Garcia, C. (Trujillo, K.A., Faculty Advisor) (2008). Club drug interactions: Unexpected effects of ketamine and methamphetamine combinations on behavior. *California State University Statewide Student Research Competition*.
- Guaderrama, M.M. (Trujillo, K.A., Faculty Advisor) (2008). Morphine interactions with methamphetamine and methylphenidate (Ritalin): An amplified response to 'Speedball' drug interactions. *California State University Statewide Student Research Competition*.
- Aragon, O. (Trujillo, K.A., Faculty Advisor) (2008). Normalization of brain wave activity in children with autism spectrum disorders following neurofeedback training. *California State University Statewide Student Research Competition*. (Second Place Division Award).
- Allen, S.C. (Trujillo, K.A., Faculty Advisor) (2008). Behavioral sensitization to the prescription opiates oxycodone and codeine: Comparisons to morphine and implications for abuse. *California State University Statewide Student Research Competition*. (Second Place Division Award).
- Smith, M.L. (Trujillo, K.A., Faculty Advisor) (2008). Different effects of oxycodone on adult and adolescent rats. *California State University Statewide Student Research Competition*. (Second Place Division Award).

**OTHER PUBLICATIONS:**

- Trujillo, K.A. (2007, November). Basic research focus: Biological factors in adolescent drug abuse and addiction, *El Faro: La Voz de la Red*, 1(2). Available online: <http://nhsn.med.miami.edu/x265.xml>
- Trujillo, K.A. and Molina, P. (2007). Effects of drugs of use on the brain and on adolescent brain development, In: *Drug Abuse among Hispanics: A Brief Evidence-Based Guide for Providers*, SAMHSA. Available online: <http://ncadistore.samhsa.gov/catalog/productDetails.aspx?ProductID=17681>
- Biebel, D.B and Koenig, H.G. (2004). *New Light on Depression: Help, Hope, and Answers for the Depressed and Those Who Love Them*, Zondervan. (Contains original drawings on mechanism of action of antidepressants by K.A. Trujillo.)
- Trujillo, K.A. (1999, April 8). The faculty pay dispute and CSU's future. *San Diego Union Tribune*, p. B11.