



ALANA C. CONTI, PhD

Office Address: John D. Dingell VA Medical Center
4646 John R. St. (11R)
Rm. 4250
Detroit, Michigan 48201

Office Telephone: 313.576.3311
Office Fax: 313.576.1112

E-mail: aconti@med.wayne.edu

Citizenship: USA

EDUCATION

1997-2003 PhD, Neuroscience, Biomedical Graduate Studies
University of Pennsylvania, School of Medicine
Philadelphia, Pennsylvania
Advisor: Julie A. Blendy, PhD, Department of Pharmacology

Dissertation Title: cAMP Responsive Element-Binding Transcription
Factors Mediate Distinct Actions of Antidepressant Drugs in the Brain

1992-1995 B.S.E., Bioengineering
University of Pennsylvania, School of Engineering
Philadelphia, Pennsylvania

Design Project- "Development of Ambulatory Monitor for Intradiscal Pressure"
Daniel Bogen, MD, PhD- Advisor

Independent Research- "The Kinetics of Bioactive Glass Surface Reactions"
Paul Ducheyne, PhD- Advisor

Independent Research- "Apoptosis after Traumatic Brain Injury- A General Review"
Kenneth Foster, PhD and Tracy K. McIntosh, PhD- Advisors

1990-1991 Biology Honors Student
Wayne State University
Detroit, Michigan

POSTDOCTORAL TRAINING

2004-2008 Washington University in St. Louis, School of Medicine
Department of Pediatrics
St. Louis, Missouri
Advisor: Louis J. Muglia, MD, PhD
"The Role of Ca⁺⁺-stimulated Adenylyl Cyclases in Neuronal Sensitivity to Ethanol"

POSTDOCTORAL TRAINING (Continued)

- 2006-2008 NICHD Postdoctoral Training Fellowship
Department of Developmental Biology
Washington University in St. Louis
St. Louis, Missouri
- 2003-2004 University of Pennsylvania, School of Medicine
Department of Pharmacology
Philadelphia, Pennsylvania
Advisor: Julie A. Blendy, PhD
“Development and Characterization of Nac-1 knock-out mouse”
- 2003-2004 NIDA Postdoctoral Training Fellowship
Department of Psychiatry
University of Pennsylvania
Philadelphia, Pennsylvania

FACULTY DEVELOPMENT/TRAINING

- 2012 Early Career Women Faculty Professional Development Seminar (EWIMS)- Potomac, MD
American Association of Medical Colleges (AAMC)
- *applied for and selected to participate in nationally-recognized program designed to provide an introduction to the knowledge and skills needed for women to follow the path to leadership in academic medicine*
- 2012, 2010 Stanford Faculty Development Program in Medical Teaching- Detroit, MI
Wayne State University School of Medicine
- *applied for and selected to participate in nationally-recognized program designed to meet the needs of both basic science and clinical teaching faculty*
- 2010 Strategies for Funding Development Workshop- Ann Arbor, MI
- *selected by Office for the Vice President for Research to attend workshop*

FACULTY APPOINTMENTS

- 2015-
Current Associate Professor with Tenure
Department of Neurological Surgery
Wayne State University School of Medicine, Detroit, Michigan
- 2012-
Current Secondary Faculty Appointment
Department of Psychiatry and Behavioral Neurosciences
Wayne State University School of Medicine, Detroit, Michigan
- 2011-
Current Graduate Faculty Appointment (Regular Member)
Graduate School
Wayne State University, Detroit, Michigan

FACULTY APPOINTMENTS (Continued)

- 2011-
Current Secondary Faculty Appointment
Department of Anatomy and Cell Biology
Wayne State University School of Medicine, Detroit, Michigan
- 2010-
Current Translational Neuroscience Program Faculty Member
*Steering Committee (2012-)
*Student Advisory Committee Chair (2014-)
Wayne State University, Detroit, Michigan
- 2009-2015 Assistant Professor (Tenure Track)
Department of Neurological Surgery
Wayne State University School of Medicine, Detroit, Michigan
- 2009-2009 Adjunct Assistant Professor
Department of Neurological Surgery
Wayne State University School of Medicine, Detroit, Michigan
- 2008-2009 Adjunct Instructor
Department of Biology
Maryville University, St. Louis, Missouri
- 2008-2009 Research Instructor
Department of Psychiatry
Washington University in St. Louis, School of Medicine, St. Louis, Missouri

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

- 2012-
Current Health Science Specialist- 5/8th FTE appointment
Research and Development Service
John D. Dingell VA Medical Center, Detroit, Michigan

PROFESSIONAL SOCIETIES

- 2011-Current National Neurotrauma Society
2011-Current Women in Neurotrauma Research
2010-2011 Think First!- Head Injury Prevention Awareness, Detroit Medical Center Chapter
2010-Current University of Michigan Substance Abuse Research Center
2009-Current Michigan Chapter of the Society of Neuroscience
*Elected as Wayne State University Councilor for 2 consecutive terms:
2010-12 and 2012-14
*Elected as Chapter Secretary, 2014-2016
2008-Current Research Society on Alcoholism
2008-Current Fetal Alcohol Spectrum Disorders Study Group
1998-Current Society for Neuroscience
1995-1997 National Neurotrauma Society

HONORS AND AWARDS

- 2014 Research Excellence Award- Clinical Department
Wayne State University School of Medicine, Office of Faculty Affairs
- Given in recognition of research excellence and achievement by the faculty in the School of Medicine as demonstrated by independence, novelty and significance of research. Two awards are given at each academic rank and divided evenly between Basic Science and Clinical Departments. To be awarded 10/2014*
- 2013 Graduate School's Faculty Postdoc Mentor of the Year
Wayne State University Graduate School
- Inaugural awardee selected by a committee from a field of eight candidates as the Junior Faculty Mentor of the Year for outstanding mentorship of postdoctoral fellows; \$500, 10/2013*
- 2013 Academy of Scholars Junior Scholars Award
Wayne State University Academy of Scholars
- Given annually on the basis of outstanding academic accomplishments to one junior faculty member at the Assistant Professor or non-tenured Associate Professor level in the natural sciences or medicine; \$1000, 10/2013*
- 2013 Funder Consultation Program
Wayne State University Office of the Vice President for Research
- Sponsorship to attend national meetings for the purpose of discussing pending research grants with program officers from external funding agencies; \$620; 10/2013*
- 2013 Presidential Early Career Awards for Scientists and Engineers (PECASE)
John D. Dingell VA Medical Center, Office of the President of the United States
- Nominated by John D. Dingell VA administration as the only local VA candidate for recognition as a Federal researcher with outstanding potential and leadership potential as an early investigator; 11/2013*
- 2012 Dr. Jack Ryan Research Award
Endowed by the Dr. Morris S. Brent Fund
Wayne State University School of Medicine Medical Alumni Reunion Day
- "Juvenile Traumatic Brain Injury Alters Synaptic Development That May Increase Mood and Anxiety Disorders in Adulthood"; \$5,000, 5/2012*
- 2010 Junior Faculty Award in the Social and Behavioral Sciences
Wayne State University Office of the Vice President for Research
- "Juvenile Traumatic Brain Injury Impact on Depression and Anxiety-Like Behavior in the Adult Mouse"; \$50,351, 5/31/2010 – 12/31/2012*

HONORS AND AWARDS (Continued)

- 2010 Faculty Competition for Postdoctoral Fellows
Wayne State University Office of the Vice President for Research

"Traumatic Brain Injury-Induced Alterations in Synaptic Function and the Effects on Alcohol Sensitivity"; \$60,000, 1/2013-12/2015
- 2003 Elliot Stellar Postdoctoral Award
Philadelphia Chapter, Society for Neuroscience
- 1999, 2002 Travel Fellowship
AccuScan Instruments
- 2001 Solomon Erulkar Travel Fellowship
Department of Pharmacology
University of Pennsylvania
Philadelphia, Pennsylvania
- 1995, 1996 Poster / Travel Award Finalist
National Neurotrauma Society
- 1995 Bioengineering Senior Design Award Finalist
University of Pennsylvania
Philadelphia, Pennsylvania
- 1990-1994 Merit Scholarship
Wayne State University
Detroit, Michigan
- 1990-1991 Dean's List
Wayne State University
Detroit, Michigan
- 1990 Valedictorian
Southfield Christian High School
Southfield, Michigan
- 1990 Madame Curie Science Award
Southfield Christian High School
Southfield, Michigan

SERVICE

Wayne State University Departmental/Divisional

- 2013 Neurosurgery Website Development Committee
**participate in design and implementation of new Departmental webpage*
- 2013 Neurosurgery Research Fundraising Committee

**develop novel fundraising ideas for Departmental research projects*

- 2013-
2015 Neurosurgery Chairperson Search Committee

**1 of 2 Departmental faculty representatives elected to serve on committee for national search*
- 2013 Gurdjian-Thomas Visiting Professor Lecture Coordinator

**invited and hosted keynote speaker (Dr. Claudia Robertson, Baylor College of Medicine) for clinical lecture event for local neurosurgeons*
- 2009-
Current Neurosurgery Residency Selection Committee

**annually interview and discuss nearly 60 residency applicants*
- 2009-
2013 Neurosurgery Research Grand Rounds Coordinator

**annually invite and host guest speaker for Research Grand Rounds
2013- Drs. Hanks, Millis and Waldron-Perrine, Rehab Institute of Michigan
2011- Dr. Midori Yenari, University of California- San Francisco
2010- Dr. Kevin Wang, Banyan Biomarkers/University of Florida
2009- Dr. Ramesh Raghupathi, Drexel University College of Medicine*

School of Medicine

- 2016 Medical Student Research Symposium- Poster Judge
- 2015-
Current Women in Medicine and Science (WIMS) Mentoring Subcommittee

**develop and implement mentoring programs for WSU School of Medicine junior faculty to increase publication rate and grant funding; facilitate promotion and tenure preparation; and other issues relevant to issues for women in medicine and science*
- 2015 MD/PhD Program- Applicant Interviewer
- 2015 WIMS Leadership Award Selection Committee- Application reviewer
- 2015 WIMS Seminar- Panelist

**presented advice on "How do I know I'm ready for Promotion?"*
- 2014-
Current Translational Neuroscience Program Student Advisory Committee-Chair

**provide day-to-day advising for current and incoming TNP PhD students, related to registration, rotation selection, curriculum, degree requirements, etc.*
- 2014 WIMS Seminar- Moderator/Organizer

**hosted Drs. Linda Roth and Karoline Puder, moderated a panel discussion on "The MID-WIMS experience"
hosted Dr. Julie Ptilisis- "Finding the Right Fit" for Women in Medicine and Science

- 2014 Early Career WIMS (EWIMS) selection committee- Application reviewer
**reviewed candidate applications for attendance to EWIMS/AAMC national meeting*
- 2014 School of Medicine Strategic Plan Unification Committee
**selected by the Dean of the School of Medicine as 1 of 12 faculty members to serve with the Vice Deans to articulate a master strategic plan for the WSU School of Medicine in preparation for the LCME site visit in 2015*
- 2013-
Current WIMS Advisory Committee
**founding member*
**develop and implement programming for WSU School of Medicine faculty, staff and students pertaining to issues germane to women in science and medicine*
- 2013-
Current School of Medicine Student Neuroscience Research Interest Group
**annual faculty presenter/available mentor for medical student research projects*
- 2013 WIMS Seminar- Faculty Panelist
**provided advice on "Making the Most of Mentoring"*
- 2011-
Current Translational Neuroscience Program- Steering Committee (1 of 5 members)
**chairperson of Student Advisory Committee (2014-)*
**annually review approximately 20 applications, interview and host approximately 5 applicants, and meet regularly to discuss graduate program status and implement program changes*
- 2010-
2013 Multidisciplinary Research Group Incubator Program- Faculty Member/Mentor Program for Traumatic Brain Injury Research (PTBIR)
**participate in annual PTBIR research symposium, available as faculty mentor*
- University**
- 2016 Professional & Academic Development Seminar- Faculty Panelist
**provided advice on "Preparing for Promotion and Tenure."*
- 2015 Student WIMS Interest Group- Inaugural seminar speaker
- 2015-
Current Brain@Wayne- Neuroscience Interest Group
**Founding member- steering committee*
**Co-chair of retreat committee*
- 2014, 2015 Undergraduate Research Opportunities (UROP)- Undergraduate Research and Creative Project Award (URCPA) Judge

- *annually adjudicated award applications for URCPA in the Life Science category*
- 2013 Jack Ryan Award Review Committee
**selected as 1 of 5 faculty to review and score 16 applications for Jack Ryan Award*
- 2013 Postdoctoral Association- Poster Judge
**adjudicated poster presentations for first-annual postdoctoral symposium*
- 2013 Postdoctoral Association- Paper Judge
**adjudicated paper submissions for first-annual "Outstanding Paper Award"*
- 2013 WSU Clinical and Translational Science Informal Interview Session
**selected to provide feedback for the development of NIH-CTSA proposal to external FAEGREBD Consulting*
- 2013, 2010 Professional & Academic Development Seminar- Faculty Panelist
**provided advice on "How to start and maintain a research lab?"*
- 2012-
Current Institutional Animal Care and Use Committee (IACUC)- Regular Member
**review, present and compile reports for newly submitted IACUC protocols monthly, regularly review submitted protocol amendments, bi-annually inspect animal facilities and labs, compile and approve inspection reports*
**served as alternate member from Oct. 2014-Sept 2015*
- 2011 Office of the Vice President for Research- Faculty Panelist
New Faculty Reception
**presented advice on "What you wish you had known in your first year at WSU?"*
- 2010-
2014 Drug and Alcohol Research Network @ WSU- Founder, Director and Organizer
**University-wide study group focused on drug and alcohol research. Target audience includes: faculty, fellows, graduate and medical students, research assistants and undergraduates who meet bi-monthly to discuss data, manuscripts in preparation, journal articles and grant proposals. Represented departments include: Neurosurgery, Psychiatry and Behavioral Neurosciences, Chemistry, Psychology, Pharmacology, Ob/Gyn, Anesthesia, Nursing, Neurology and Pediatrics*
**schedule speakers, publicize meetings, and maintain records*
**give data presentations regularly*
- 2010-
Current Graduate School Exhibition- Poster Judge
**annually adjudicate poster presentations*

Affiliate Medical Organizations

- 2015-current Research Committee
John D. Dingell VA Medical Center
Detroit, MI

**review pending VA award submissions, continuing protocol reviews, and IRB and IACUC minutes*
- 2014-current Research Review Committee
John D. Dingell VA Medical Center
Detroit, Michigan

**provided NIH-style review for pending VA award submissions, provided recommendations for approval of applications for submission to VA Central Office*
- 2013-
Current IACUC Committee- VA representative
John D. Dingell VA Medical Center/Wayne State University, Detroit, Michigan

**attend and present at monthly IACUC committee meetings and report to VA on IACUC-VA issues*
- 2011-
Current Biosafety Committee
John D. Dingell VA Medical Center, Detroit, Michigan

**attend and present at monthly committee meetings, assess safety risks and precautions of newly submitted VA research project protocols, revise biosafety forms*
- 2010-2011 Think First! - Detroit Medical Center Chapter- Head Injury Prevention Awareness

**attended local group meetings and give head injury prevention presentations at local middle schools and additional public venues*

Professional

- 2015 Selected to attend the State-of-the-Art Conference on Traumatic Brain Injury- Washington D.C.

**Successfully nominated WSU MD/PhD student, Natalie Wiseman to attend as a Scribe*
- 2014
2015 National Neurotrauma Society- Student Poster Award/Travel Award Judge

**adjudicated abstracts to be considered for award travel to the annual meeting*
- 2014-
Current Michigan Society for Neuroscience- Council Secretary

**nominated and elected by Society members for 2014-2016 term
record Chapter minutes at bi-annual council meetings, publicize annual meeting, recruit members, meet bi-annually to discuss Chapter status and annual meeting
- 2010-2014 Michigan Society for Neuroscience- Wayne State University Councilor

**nominated and elected by Society members for 2 consecutive terms: 2010-12; 2012-14*

**disseminated Chapter information, publicized annual meeting, recruited members, met bi-annually to discuss Chapter status and annual meeting*
**organized and planned annual Chapter meeting (May, 2013), including: poster session (~80 posters), keynote address, business meeting (~200 members) and poster adjudication/awards*

2011-
Current

Michigan Society for Neuroscience- Poster and Founder's Award Judge

**annually adjudicate poster presentations and graduate student Chapter awards*

Community

2015

Dining for Women- Member and volunteer
Grosse Pointe Chapter, Grosse Pointe, MI

International fundraising program working to fight gender inequality in developing countries

**host and volunteer at monthly community fundraising events*

2014

Brain Awareness Day Planning Committee

2016

Detroit Science Center

**assisted with organizing interactive neuroscience demonstrations for 200+ families*

2012

Webster Elementary School Science Day- Project/Poster Judge
Webster Elementary School, Livonia, Michigan

** adjudicated poster presentations and science demonstrations for 5th-6th graders*

2011-2012

Science and Engineering Fair of Metro Detroit- Poster Judge

**annually adjudicate middle and high school science/engineering projects vying for national competition*

**Junior Division Team and Behavioral Projects; Grand Award Judging*

2011

Think First!- Head Injury Prevention Awareness
Pierce Middle School, Grosse Pointe Park, Michigan

**presented interactive Think First! curriculum to 175 middle school students*

2011

Brain Awareness Day
Pierce Middle School, Grosse Pointe Park, Michigan

**organized and presented interactive brain anatomy demonstration to 175 middle school students*

2010

Bring Your Child to Work Day- Faculty Presenter
Detroit Medical Center, Detroit, Michigan

**designed and presented interactive neuroscience activities to children of DMC/WSU employees (Department of Neurosurgery)*

2010 Brain Awareness Day
Detroit Science Center, Detroit, Michigan

**participated in interactive head injury prevention demonstrations*

Scholarly Service

Grant Review Committees

National

2015- Department of Veterans Affairs- Office of Research and Development
Current Rehabilitation Research and Development Service
RRD8- CDA review panel
Ad hoc reviewer

2015 Department of Veterans Affairs- Office of Research and Development
Rehabilitation Research and Development Service
RRD1/B (RRD1)- Brain Injury: Traumatic Brain Injury & Stroke
Ad hoc reviewer

Regional/Local

2013 Wayne State University School of Medicine
Jack Ryan Award Review Committee- ad hoc

**selected as 1 of 5 faculty to review and score 16 applications for Jack Ryan Award*

Service for Peer-Reviewed Journals

Editorial Board Membership

2015- *Brain Circulation*- Editorial Board
Current

2014- *Frontiers in Neurology* (special Neurotrauma section) Review Editor
Current

Review of Manuscripts

2016 *Alcoholism Clinical and Experimental Research* (1)
Neurological Research (1)

2015 *Alcoholism Clinical and Experimental Research* (1)
Frontiers in Neurology (1)
PLoS ONE (1)
Neurobiology of Stress (1)

2014 *Journal of Neurotrauma* (1)
Brain Research (1)

2013 *Journal of Neuroscience Research* (2)
Alcoholism Clinical and Experimental Research (1)

2012 *Developmental Psychobiology* (2)
Alcoholism Clinical and Experimental Research (1)
Neurological Research (3)

2010 *Neurosignals* (1)
2009 *PLoS ONE* (1)

Review of Manuscripts and Grants for Peers

Bosse KE and Mathews TA. "Ethanol-induced increases in extracellular dopamine are blunted in brain-derived neurotrophic factor heterozygous mice". *Neurosci Lett.* 489(3):172-6, 2011.

Cox BM, Alsawah F, McNeill PC, Galloway MP, Perrine SA. "Neurochemical, hormonal, and behavioral effects of chronic unpredictable stress in the rat". *Behavioural Brain Res.* 220(1):106-11, 2011.

Bosse KE, Maina FK, Birbeck JA, France MM, Roberts JJ, Colombo ML, Mathews TA. "Aberrant striatal dopamine transmitter dynamics in brain-derived neurotrophic factor-deficient mice". *Journal of Neurochemistry*, 120(3):385-95, 2012.

Apawu A, Mathews TA, Bowen SE. "Striatal dopamine dynamics in mice following acute and repeated toluene exposure". *Psychopharmacology*. July, 2014 (in press).

Eagle A, Fitzpatrick CJ, Perrine SA. "Single prolonged stress impairs social and object novelty recognition in rats". *Behavioral Brain Research* 256:591-7, 2013.

"MDMA Behavioral Deficits Depend on Serotonin Modulation of Glutamate Homeostasis"
PI: Perrine, Shane A.; Co-I: Galloway, M.P., NIH/NIDA- R01

**participated in pre-review submission program from the Office of the Vice President for Research; awarded \$300 for internal grant review*

"Manganese-enhanced MRI Assessment of Stimulant-Induced Neuroplasticity in Rodents"
PI: Perrine, Shane A.; Co-I: Berkowitz, Bruce A., NIH/NIDA- I/START R03

"The Interplay between Ethanol, Dopamine and BDNF"
PI: Mathews, Tiffany A., NIH/NIAAA- R01

Letters of Support Written for Promotion and Tenure Portfolios

2011 Submitted letter for candidate for promotion to research assistant professor of Neurology at Washington University in St. Louis.

Other Service

1995-1997 Senior Lab Technician/Lab Manager
Head Injury Center
University of Pennsylvania, Philadelphia, PA

**investigated temporal and spatial pattern of apoptosis and accompanying mRNA and protein expression of relevant cell death genes following experimental fluid-percussion brain injury in the rat, trained new employees in laboratory and administrative tasks*

1993-1995 Clerk
Presbyterian Medical Center of Philadelphia, Philadelphia, Pennsylvania
Clerk, 8-16 hrs/week, plus coursework

**classified all in-house specimens, reported test results, compiled phlebotomy collection lists and patient billing reports*

1991 Volunteer, Orthotics and Prosthetics Fabrication Department
Detroit Institute for Children, Detroit, Michigan
Volunteer, 20-30 hrs/week, plus coursework

**designed, constructed and fitted orthotics/prosthetics for physically-challenged youth; consulted with doctors, therapists and fabricators*

TEACHING

Years at Wayne State University (Detroit, MI), July 2009-present

Teaching at Wayne State University

Interactive and Small Group Format, Mixed Learner Level

2010-2014 Drug and Alcohol Research Network @ WSU- Founder, Director and Organizer

**University-wide study group focused on drug and alcohol research. Target audience includes: faculty, fellows, graduate and medical students, research assistants and undergraduates who meet bi-monthly to discuss data, manuscripts in preparation, journal articles and grant proposals. Represented departments include: Neurosurgery, Chemistry, Psychiatry and Behavioral Neurosciences, Psychology, Pharmacology, Ob/Gyn, Anesthesia, Nursing, Neurology, Pharmaceutical Sciences and Physiology*
**schedule speakers, publicize meetings, maintain records*
**deliver data presentations regularly*

2010-2013 Multidisciplinary Research Group Incubator Program- Faculty Member/Mentor
Program for Traumatic Brain Injury Research (PTBIR)

**lecture and participate in annual PTBIR research symposium, available as faculty mentor*

2009-Current Research Presentation for Residency Applicants- Department of Neurosurgery

** annually present research laboratory objectives to residency candidates; target audience includes: residency candidates, residents, fellows, faculty and medical students*

Undergraduate Students

Winter 2014 BIO 6990- Honors Directed Study Advisor for Sailesh Ramalingam

**instructed on laboratory techniques including, preparation and analysis of tissue samples using immunoblotting to measure changes in plasticity-related proteins in the mouse brain following methamphetamine treatment; student reached independent proficiency by the term end*

• Irvin D. Reid Honors College- Presidential Scholar (full-tuition scholarship)

Winter 2013 BIO 6990- Honors Directed Study Advisor for Ajay Eapen

**instructed on laboratory techniques including, preparation of tissue samples for ICP-OES analysis to measure manganese uptake differences in mice injected with psychostimulants; student reached independent proficiency by the term end*

- Irvin D. Reid Honors College- Medstart pre-medical student program

Jan- May 2012

BIO 5996- Independent Research Course Advisor for Hussein Nasser

**engaged student to read primary scientific literature and mentored student on weekly journal article presentations and paper analysis; instructed on laboratory techniques including, immunohistochemistry and animal husbandry*

Graduate Students

Fall 2012, 13, 14
Winter 2013, 14-
Current

PYC 7890- Translational Neuroscience Program Research Seminar
Course Director

**mentored students on paper selection and presentation skills; small group format (approximately 14 students per semester)*

**incorporated "faculty experts" as guest moderators- course modification- (Winter 2013-2015)*

**incorporated "chalk talk" format to enhance students' presentation skills- (Fall 2015-)*

Winter 2012 -
Current

PYC 7010/IBS 7050- Molecular Neuropsychopharmacology

Guest lecturer (1 class)/didactic format recorded for streaming video (50 students)

Summer 2012
Fall 2012

BMS 7880- Independent Research Course Advisor for Jennifer Lowing
"Characterization of diffuse axonal injury following closed-skull traumatic brain injury in the mouse"

**instructed on laboratory techniques including, small animal surgery, brain tissue preparation, immunohistochemistry and microscopic analysis; student reached independent proficiency by term end*

- Student collected and presented data at multiple scientific conferences (Graduate Student Research Day, Program in Traumatic Brain Injury Research Symposium), including competitive selection for oral presentation at Dept. of Behavioral Neurosciences Research Day
- Earned co-authorship on several abstracts presented at scientific meetings

Winter 2012

PYC 7890- Translational Neuroscience Program Research Seminar

- Discussion leader/Faculty Expert (4 classes)/small group format (12 students)
- Guest moderator (8 classes)/small group format

Fall 2011

PYC 7890- Translational Neuroscience Program Research Seminar

- Guest moderator (11 classes)/small group format (12 students)

Medical Students

- Winter 2013 Research Elective (MD4 8760) - Adam Russman
- *instructed student on laboratory techniques including, data recording, input and analysis, immunoblotting, small animal imaging (image acquisition and analysis) and laboratory maintenance; student reached independent proficiency by term end*
- Earned co-authorship on 1 manuscript currently in preparation
- Fall 2012 Research Elective (MD4 8760) - Steven Hool
- *instructed student on laboratory techniques including, data recording, input and analysis, immunoblotting, quantitative reverse transcriptase PCR (qRT-PCR) and laboratory maintenance; student reached independent proficiency by term end*
- Earned co-authorship on 4 abstracts presented at scientific meetings
 - Earned co-authorship on 1 manuscript currently in preparation

Residents/Fellows

- Fall 2010 Department of Neurosurgery- Research Journal Club
- Discussion leader (approximately 10 residents/fellows)
- *presented and led discussion of 2 neurosurgery-focused articles*

Teaching/Mentoring at Other Institutions

Years at Washington University (St. Louis, MO): Sept. 2004-July 2009
Years at Maryville University (St. Louis, MO): Sept. 2008-May 2009
Years at University of Pennsylvania (Philadelphia, PA): Sept. 1994-Dec. 2003

Undergraduate Students

- 2008-2009 Adjunct Instructor, Biology 117: Introductory Biology Lab for Biology Majors (1st and 2nd year undergraduates)
Department of Biology
Maryville University
St. Louis, Missouri
- *designed laboratory sessions and experiments, instructed on lab techniques and skills, graded lab reports*
- 2008 Course Instructor- Biology 112: Problem Based Learning in the Biological Sciences (1st and 2nd year undergraduates)
Department of Biology
Washington University in St. Louis
St. Louis, Missouri
- *designed course, lectures and problem sets, evaluated presentations, promoted research skills and engaged class discussion*

- 2008 Teaching Assistant- Biology 112: Problem Based Learning in the Biological Sciences (1st and 2nd year undergraduates)
Department of Biology
Washington University in St. Louis
St. Louis, Missouri
- *designed course, lectures and problem sets, evaluated presentations, promoted research skills and engaged class discussion*
- 1999, 2003 Teaching Assistant- Biological Basis of Behavior 109: Introduction to Brain and Behavior (2nd year undergraduates)
Department of Biology
University of Pennsylvania
Philadelphia, Pennsylvania
- *designed weekly recitations, including labs and exam review sessions, developed and graded exam questions*
- 1994 Teaching Assistant- Bioengineering 363: Structure and Properties of Biomaterials (3rd year undergraduates)
Department of Bioengineering
University of Pennsylvania
Philadelphia, Pennsylvania
- *planned recitations and exam review sessions, reviewed and graded homework assignments*

Laboratory Instruction/Mentoring- Mixed Learner Level

- 2005-2007 Laboratory Research Supervisor/Mentor
Department of Pediatrics
Washington University in St. Louis, St. Louis, Missouri
- *Bhomy Dave, MD
- *directly trained Dr. Dave to perform in vivo neonatal ethanol studies, tissue slicing, immunohistochemistry, fluorescence microscopy, and immunoblotting methods*
- Earned 1 co-author publication (during a 1-year time period)
 - Currently a fifth year resident in the Department of Ob/Gyn at Stanford University School of Medicine
- *Timothy Tran, MD
- *directly trained Dr. Tran to perform in vivo ethanol administration, tissue harvest, fluorescence microscopy, immunohistochemical techniques and ligand binding methods*
- Earned 1 co-author publication (during a 1-year time period)
 - Completed Critical Care Fellow in the Department of Anesthesia Perelman School of Medicine at the University of Pennsylvania
 - Currently staff physician at Rutgers University

1995-1997

Laboratory Research Supervisor/Manager, Head Injury Center
University of Pennsylvania, Philadelphia, PA

**investigated temporal and spatial pattern of apoptosis and accompanying mRNA and protein expression of relevant cell death genes following experimental fluid-percussion brain injury in the rat, trained new employees in laboratory and administrative tasks*

**directly trained students, technicians and postdoctoral fellows to perform tissue slicing, immunohistochemistry, brightfield microscopy and immunoblotting methods*

High School Students

June- July 2015

Brenna Bromwell (then rising senior at Grosse Pointe South High School- Grosse Pointe, MI)

**instructed student on data recording, input and analysis and laboratory maintenance*

Jul.-Aug. 2014

Emily Schneider (rising senior at Williamston High School- Williamston, MI)

**instructed student on laboratory techniques including, data recording, input and analysis and laboratory maintenance; arranged for student to observe neurosurgical procedures at the Detroit Medical Center*

Jul.-Aug. 2012

Maggie Kelly (then rising junior, Grosse Pointe North High School, Grosse Pointe, MI)

Armaity Minwalla, (then rising junior, University Liggett School, Grosse Pointe, MI)

**instructed both students on laboratory techniques including, data recording, input and analysis, high performance liquid chromatography and laboratory maintenance*

Undergraduate Students: WSU undergraduates, unless otherwise noted

Jan. 2016-
Current

Laboratory Mentor for Manshant Singh (volunteer)

**instructing on laboratory techniques including behavioral testing and data collection/recording*

June-Aug. 2014
June-Aug. 2015

Laboratory Mentor for Milena Lai (Michigan State University- volunteer)

**instructed on laboratory techniques including, immunoblotting, high-performance liquid chromatography, and magnetic resonance spectroscopy; student reached independent proficiency by the end of the fellowship period*

• Earned co-authorship on 1 manuscript currently in preparation and 1 abstract presented at a national conference

June-Aug. 2015

Laboratory Mentor for Ken Elkin (University of Notre Dame- volunteer)

**instructed on laboratory techniques including, immunoblotting and behavioral analysis; student has reached independent proficiency*

• Earned co-authorship on 1 manuscript currently in preparation

- May 2014-
May 2016
- Laboratory Mentor for Kyle Knouna (volunteer)
- *instructed on laboratory techniques including, immunoblotting, polymerase chain reaction and behavioral analysis; student has reached independent proficiency*
- Selected to participate in Initiative to Maximize Student Development Program which is designed to increase academic performance, persistence and graduation rate of ethnic minority students in science majors leading to careers in biomedical and or behavioral science
 - Earned co-authorship on 1 manuscript currently in preparation
 - Presented first-author poster at Annual Biomedical Research Conference for Minority Students, Seattle, WA; Nov, 2015.
- June-Aug. 2014
- Laboratory Mentor for Armaity Minwalla (University of Michigan)
- *instructed on laboratory techniques including, immunoblotting, polymerase chain reaction, behavioral analysis and laboratory maintenance; student reached independent proficiency by the end of the fellowship period*
- Recipient of Summer Undergraduate Research Experience (SURE) fellowship from WSU (\$2500 stipend for 10-week research internship, 2014)
 - Earned first-authorship on 1 abstract presented at a scientific meeting
 - Earned co-authorship on 1 manuscript currently in preparation
- June-Aug. 2014
- Laboratory Mentor for Claire Sinai (Brandeis University)
- *instructed on laboratory techniques including, immunoblotting, high-performance liquid chromatography, magnetic resonance spectroscopy and behavioral testing; student reached independent proficiency by the end of the fellowship period*
- Recipient of Summer Undergraduate Research Experience (SURE) fellowship from WSU (\$2500 stipend for 10-week research internship, 2014)
 - Earned first-authorship on 1 abstract presented at a scientific meeting
 - Earned co-authorship on 2 manuscripts currently in preparation
- September 2013-
July 2015
- Laboratory Mentor for Sailesh Ramalingam (volunteer)
- *instructed on laboratory techniques including, high-performance liquid chromatography, protein lysate preparation and immunoblotting; student reached independent proficiency by the end of the fellowship period*
- Student applied for Nicolette Therese Keller Endowed Scholarship in Biological Sciences
Awarded to an undergraduate junior or senior student majoring in, or otherwise demonstrating a strong interest in, biological sciences- provides tuition for independent study research credits (BIO6990)
- Earned co-authorship on 3 abstracts presented at scientific meetings
 - Earned co-authorship on 3 manuscripts currently in preparation
- Summers
- Laboratory Mentor for Alexandria Chrumka (Stanford University)

2012, 2013

**instructed on laboratory techniques including, immunohistochemistry, immunoblotting, behavioral testing and dendritic morphology analysis; student reached independent proficiency by the end of the fellowship period*

- Recipient of Summer Undergraduate Research Experience (SURE) fellowship from WSU (\$2500 stipend for 10-week research internship, 2012)
- Earned co-authorship on 4 abstracts presented at scientific meetings
- Earned co-authorship on 3 manuscripts currently in preparation and 1 published manuscript

April 2012-
Current

Laboratory Mentor for Ajay Eapen (volunteer)

**instructed on laboratory techniques including, behavioral and dendritic morphology analyses and small animal imaging (image acquisition and analysis); student has currently reached independent proficiency*

**mentored student in development of award application and research plan design*

**mentored student in research plan design, data collection and abstract/manuscript preparation*

- Irvin D Reid Honors College- Medstart pre-medical student program
- Student designed method to analyze small animal MRI images using ImageJ software, generating critical preliminary data for currently funded VA Merit grant application (2012-2016)
- Student awarded WSU Undergraduate Research and Creative Projects Award 2012: \$2300 to student and \$750 to mentor for study-related costs
- Student was awarded several 2013 summer fellowships including:
 - Summer Undergraduate Research Experience (SURE), \$2500 stipend by WSU
 - NIH/NIDA Summer Internship Program (SIP), \$2200 stipend for NIDA-sponsored research experience
 - Summer Undergraduate Physician-scientist Education and Research Training Program (SUPER): Michigan State University College of Osteopathic Medicine, \$2500 stipend for MSU-sponsored research experience
- Student applied for Nicolette Therese Keller Endowed Scholarship in Biological Sciences

Awarded to an undergraduate junior or senior student majoring in, or otherwise demonstrating a strong interest in, biological sciences- provides tuition for independent study research credits (BIO 6990)

- Earned co-authorship on 4 abstracts presented at scientific meetings
- Earned co-authorship on 3 publications currently in preparation

April-Oct. 2011

Laboratory Mentor for Samer Delly (volunteer)

**instructed on laboratory techniques including, immunohistochemistry, immunoblotting, and dendritic morphology analysis; student reached independent proficiency by end of volunteer period*

Graduate Students

- 2013-2015 Thesis Essay Committee- Heli Chauhan
College of Pharmacy and Health Sciences Master's Program
Wayne State University
- *attend committee meetings and provide mentorship through course of project*
- Earned Master's degree and secured employment in biomedical industry
- 2013 Thesis Essay Committee- Raisla Razalan
Basic Medical Sciences Masters of Science Program
Wayne State University School of Medicine
- *mentored student during preparation of thesis essay*
- 2013 Thesis Essay Committee- Kostika Mulo
Basic Medical Sciences Masters of Science Program
Wayne State University School of Medicine
- *mentored student during preparation of thesis essay*
- 2012 Thesis Essay Committee- William Li
Basic Medical Sciences Masters of Science Program
Wayne State University School of Medicine
- Student published first-author review based on thesis essay
- *mentored student during preparation of thesis essay/evaluated essay*
- June-Sept. 2012 Rotation Advisor- Brandy Schneider
Translational Neuroscience Program
Wayne State University School of Medicine
- *instructed on techniques including immunoblotting, behavioral analyses and dendritic morphology analysis; student reached proficiency by the end of the rotation*
- Presented poster at Graduate Student Research Day (2012), Program in TBI Research Symposium (2012) and Dept. of Psychiatry and Behavioral Neurosciences Research Day (2013) based on rotation project- first author
- Jan. - June 2012 Rotation Advisor- Denise Briggs
Translational Neuroscience Program
Wayne State University School of Medicine
- *instructed on techniques including immunoblotting, immunohistochemistry and behavioral analyses, student reached proficiency by the end of the rotation*
- Presented poster at Graduate Student Research Day, 2012 based on rotation project- first author
- Sept. 2011-2014 Thesis committee member for Brooke Raven Newman, PhD

Department of Chemistry
Wayne State University

**student worked on collaborative project with my laboratory; mentored student on role of adenylyl cyclases in ethanol sensitivity;*

- Student received Initiative for Maximizing Student Development award which provides salary of at least \$20,000/yr plus tuition and health insurance for up to 2 years
- Student was awarded diversity travel fellowship to national Society for Neuroscience annual meeting
- Earned co-authorship on 2 manuscripts currently in preparation based on collaborative projects with A. Conti

Medical Students

June 2014-
Current

Michael Pezzillo- (MS1- volunteer)

**instructed student on laboratory techniques including, data recording, input and analysis, immunohistochemistry, behavioral analysis, brightfield microscopy and laboratory maintenance; student has currently reached independent proficiency*

- Earned co-authorship on 2 manuscripts in preparation
- Presented poster at the National Neurotrauma Society Annual Meeting- 2015

March-May 2013

Clara Hildebrandt- (MS1- volunteer)

**instructed student on laboratory techniques including, data recording, input and analysis, immunoblotting, neuronal morphology analysis, behavioral analysis and laboratory maintenance; student has currently reached independent proficiency*

- Earned co-authorship on 2 published manuscripts and 1 manuscript in preparation

Postdoctoral Fellows

August 2013-
Current

Advisor for Veronica Chiu, PhD

**instructed on laboratory techniques including, behavioral analyses, tissue preparation, immunoblotting, and mouse husbandry/colony maintenance*

- Successfully competed for a BEST (Broadening Experience in Scientific Training) Internship, July-Aug. 2016- \$2500 for 8-week internship

March 2013-
August 2015

Advisor for Jessica Matchynski, PhD

**instructed on laboratory techniques including, behavioral analyses, tissue preparation, immunoblotting, and mouse husbandry/colony maintenance*

- Selected for 2014 National Society for Neuroscience Chapter Postdoctoral Travel Award- \$1,000 and complimentary registration to 2014 national meeting, nominated by Michigan Chapter of the Society for Neuroscience

- Earned authorship on 4 abstracts presented at scientific meetings (2 first-author, 2 co-author)
- Earned first-authorship on 2 manuscripts in preparation and co-authorship on 2 manuscripts in preparation
- Selected by the National Society for Neuroscience for the Early Career Policy Fellows Program- 2015
- Currently an Associate Professor at Rochester College- Department of Psychology

June 2012-
Current

Advisor for Kelly Bosse, PhD

**instructed on laboratory techniques including, behavioral analyses, tissue preparation, small animal imaging and mouse husbandry/colony maintenance*

- Selected for best postdoctoral poster presentation at Michigan Chapter Society for Neuroscience annual meeting May, 2013 - \$200 award
- Earned first and co-authorship on numerous abstracts presented at scientific meetings
- Earned authorship on 11 papers (6 first-author in preparation, 1 co-author published and 4 co-author in preparation)
- Elected as Vice Chair of the Postdoctoral Association- 2014
- Awarded Women of Wayne Research Grant (\$500, Aug. 2014)
- Awarded VA Career Development Award- CDA2 (\$698,589 Nov. 2015)

2009-2010

Mentoring Team for Kelly Bosse, PhD

- Postdoctoral fellow for Dr. Tiffany Mathews, Dept. of Chemistry 2008-2012
- Submitted NRSA F32 Fellowship (NIH/NIAAA)
"BDNF, Stress, and Ethanol" (April, 2009 and Aug. 2010)

**mentored fellow in grant writing and research plan design*

Dec. 2009-
Current

Advisor for Laura Susick, PhD

**instructed on laboratory techniques including, immunohistochemistry, behavioral analyses, tissue preparation, and mouse husbandry/colony maintenance*

- Awarded NRSA F32 Fellowship (NIH/NIAAA, Nov. 2011-Oct. 2014)

**mentored fellow in grant writing and research plan design*

- Awarded Women of Wayne Research Grant (\$1000, Aug. 2011)
- Applied for L'Oreal Fellowship Grant for Women in Science-submitted Dec., 2011 (\$60,000)- not selected
- Applied for Fetal Alcohol Spectrum Disorders Study Group Travel Award-submitted March, 2012 for travel to annual meeting- not selected
- Nominated by Michigan Chapter to the National Society for Neuroscience for postdoctoral travel award, June 2012
-selected as national finalist
- Selected for oral presentation at Dept. of Psychiatry and Behavioral Neurosciences Research Day, April 2012

- Selected for Fetal Alcohol Spectrum Disorders Study Group Travel Award, March 2013- \$700 and registration to national meeting
- Selected as best preclinical presentation at Dept. of Psychiatry and Behavioral Neurosciences Research Day, March 2013- \$500 award
- Selected as best poster presentation at Postdoctoral Association Symposium, Oct. 2013-\$500 award
- Selected as best postdoc poster presentation at Michigan Chapter of the Society for Neuroscience, May 2014- \$200 award
- Successfully competed for a BEST (Broadening Experience in Scientific Training) Internship, July-Aug. 2014- \$2500 for 8-week internship
- Successfully competed for second round interview for the Innovation Fellows Program- Wayne State University Technology Commercialization Office
 - Postdocs will be trained in technology and market assessment, product development, business and entrepreneurship and will develop a research and commercialization plan on a project topic with the assistance of assigned industry mentors.
- Earned first- and co-authorship on numerous abstracts for professional societies
- Earned authorship on 12 manuscripts (2 first-author, published; 1 first-author in submission; 2 co-author published and 7 co-author in preparation)

Research Assistants

May 2015-
Current

Advisor for Scott Lloyd, BS

**instructed on laboratory techniques including, small animal surgery, immunohistochemistry, immunoblotting, general lab maintenance, behavioral testing; student reached independent proficiency*

Aug. 2014-
May 2015

Advisor for John Brandenburg, BS

**instructed on laboratory techniques including, small animal surgery, immunohistochemistry, animal colony maintenance, general lab maintenance, behavioral testing; trainee reached independent proficiency by the end of the employment period*

- Earned co-authorship on 1 abstract presented at a scientific meeting and on 1 manuscript in preparation

July 2014-
Current

Advisor for Brandy Schneider, MS

**instructed on laboratory techniques including, small animal surgery, immunohistochemistry, immunoblotting and dendritic morphology analysis; student reached independent proficiency*

- Earned Master's in Basic Medical Science (2014)
- Selected for National Neurotrauma Travel Award (2014, 2015)
- Earned authorship on 6 abstracts presented at scientific meetings (4 first-author, 2 co-author)

Feb. 2013-
July 2013

Advisor for James Caruso, BS

**instructed on laboratory techniques including, immunoblotting and dendritic morphology analysis; student reached independent proficiency*

- Matriculated at University of Virginia School of Medicine (2013)
- Earned authorship on 4 abstracts presented at scientific meetings (2 first-author, 2 co-author)
- Earned co-authorship on 1 manuscript in press, 2 co-author manuscripts in preparation and 2 first-author manuscripts currently in preparation (1 review article); also earned first-authorship on book chapter in press

Jan.-Aug. 2011

Advisor for Anthony Provenzano, BS

**instructed on laboratory techniques including, immunohistochemistry, immunoblotting, and dendritic morphology analysis; reached independent proficiency by end of employment period*

- Currently fourth-year medical student at Wayne State University School
- Earned co-authorship on numerous abstracts for professional societies
- Earned co-authorship on 2 published manuscripts and 1 co-authorship currently in preparation

Aug. 2011-
Nov. 2012

Advisor for Emily Henson, BS

**instructed on laboratory techniques including, immunohistochemistry, immunoblotting, tissue preparation, and dendritic morphology analysis; student reached independent proficiency by the end of the employment period*

- Earned Master's Degree in Physiology and Biochemistry at Wayne State University (2013)
- Earned co-authorship on 3 abstracts presented at scientific meetings
- Earned co-authorship on 2 manuscripts currently in preparation

Jan. 2010-
2014

Advisor for Jennifer Lowing, MS

**instructed on laboratory techniques including, immunohistochemistry, behavioral analyses, tissue preparation, and mouse husbandry/colony maintenance*

- Awarded Women of Wayne Research Grant (\$1000, Aug. 2010)

**mentored research assistant in grant writing and research plan design*

- Earned Biomedical Masters in Science degree (Dec. 2013)
- Presented poster at Graduate Student Research Day, 2011- first author
- Selected for oral presentation at Graduate Student Research Day, 2012- first author
- Applied for Ann E. Kelley Award in the Behavioral Sciences- national award sponsored by the University of Wisconsin (Sept., 2011)
- Presented poster at Dept. of Psychiatry and Behavioral Sciences Day, 2013- first author
- Selected for oral presentation at Dept. of Psychiatry and Behavioral Sciences Research Day, 2013- first author
- Finalist for Founder's Award Michigan Chapter of the Society for Neuroscience, May, 2013 (for best student paper)

- Earned first- and co-authorship on numerous abstracts for professional societies
- Earned authorship on 8 manuscripts (5 co-authorships in preparation; 1 first-author in press; 3 co-author published) and 1 co-authorship on a book chapter in press

Peer Mentoring

Serving as a co-mentor to 3 junior faculty members from Depts. of Neurosurgery and Anatomy

*group meets every 1-2 months to discuss issues related to paper publication, grant submission, research strategies and work-life balance

Dissertation Committees

July 2014-
Current

Natalie Wiseman, graduate student (MD/PhD candidate)
Translational Neuroscience Program
Wayne State University
Thesis title: "Susceptibility mapping of cerebral metabolism in mild traumatic brain injury patients"

Role: Committee Member

**advising student on experimental models of TBI as they relate to clinical aspects of her project*

**successfully nominated student to attend the State-of-the-Art Conference on Traumatic Brain Injury- Washington D.C., 2015*

- Selected for National Neurotrauma Society Travel Award- 2015
- Awarded F31 Individual NRSA Fellowship (NIH/NINDS)

Feb. 2014-
Current

Michael Lisieski, graduate student (MD/PhD candidate)
Translational Neuroscience Program
Wayne State University
Thesis title: "Modeling cocaine-mediated vulnerability to traumatic stress"

Role: Committee Member and collaborator

**student is working on collaborative project with my laboratory*

**mentoring student use of Golgi-Cox staining to evaluate synaptic plasticity in a rodent model of PTSD*

- Submitted 2 Federal grant application
- Earned co-authorship on 1 published manuscript

Sept. 2011-2014

Brooke Raven Newman, PhD
Department of Chemistry
Wayne State University
Thesis title: "The effects of alcohol exposure on striatal dopamine dynamics in mutant mice"

Role: Committee Member and collaborator

**student worked on collaborative project with my laboratory*

**mentored student on role of adenylyl cyclases in ethanol sensitivity*

- Student received Initiative for Maximizing Student Development (IMSD) award which provided salary of at least \$ 20,000/yr plus tuition and health insurance for up to 2 years
- Student was awarded minorities travel fellowship to national Society for Neuroscience annual meeting

Essays/Theses/Dissertations Directed

- August 2013-
Dec. 2014
- Brandy Schneider, BMS student- WSU School of Medicine
Thesis title: "Features of Co-morbid Traumatic Brain Injury and Post-traumatic Stress Disorder
Role: BMS Essay Advisor (BMS 7999)
- Successfully competed for travel grant, based on first-author abstract submission, to attend the National Neurotrauma Society Symposium, July 2014- \$500 award
 - Earned authorship on 12 abstracts presented at scientific meetings to date (6 first-author, 6 co-author)
 - Earned first-authorship on 2 manuscripts and co-authorship on 4 manuscripts in preparation
- Winter 2013
- Jennifer Lowing, BMS student- WSU School of Medicine
Essay title: "Changes in Synaptic Plasticity after Traumatic Brain Injury."
Role: BMS Essay Advisor (BMS 7999)
Degree awarded: Dec. 2013

Course Development

- Winter 2013-
Current
- PYC 7890- Research Seminar
- *modified existing class structure to include participation of "faculty experts" as guest moderators for class discussion
 - *modified existing class structure to include "chalk talk" format to enhance student presentation skills

GRANTS, CONTRACTS, AND OTHER FUNDING

Active Funding

National

- 2015-2018
- VA Merit Review Award
Department of Veterans Affairs
Rehabilitation Research and Development Service
"Longitudinal Assessment of Cortical Hypoactivity in a Model of Comorbid TBI-PTSD"
\$1,099,338; 1/2015-12/2018, 62% effort
PI: Conti
Priority score = 194 (NIH-based scale), 19.2 percentile
- 2012-2016
- VA Merit Review Award
Department of Veterans Affairs
Rehabilitation Research and Development Service

“TBI-induced Synaptic Plasticity: Effects on Ethanol Sensitivity”
\$1,098,584; 7/2012-6/2016, 62% effort
PI: Conti
Priority score = 152 (NIH-based scale), 7.3 percentile

Internal

2014-2016

President’s Research Enhancement Program- Brain Research
Office of the Vice President for Research
“Use of Neuroimaging to Assess Neuronal Dysfunction in a
Model of Combined TBI-PTSD”
\$185,733; 6/2014-4/2016, 50% effort
PI: Conti

Purpose of award is to foster interdisciplinary collaboration among faculty who are planning on developing a proposal to the BRAIN initiative but require additional data to support their hypotheses.

Pending Funding

Internal

2016

Research Equipment Program
Office of the Vice President for Research
“CeLLInsight CX5 for Quantitative Microscopy”
\$50,000; 4/2016
PI: Conti

Previously Funded

2014-2015

Grants Plus Program
Wayne State University
Office of the Vice President for Research
“Longitudinal Neuroimaging Assessment of Cortical Hypoactivity in a Model of Comorbid TBI-PTSD”
\$100,000; 1/2014-10/2015, no allowable effort/salary
PI: Conti

2013-2015

Faculty Competition for Postdoctoral Fellows
Wayne State University, Office of the Vice President for Research
“Traumatic Brain Injury-Induced Alterations in Synaptic Function and the Effects on Alcohol Sensitivity”
\$60,000; 3/2013-3/2015, no allowable effort/salary
PI: Conti

2008-2013

NIH/NIAAA K01 Mentored Research Scientist Development Award
“Effects of Adenylyl Cyclases 1 and 8 on Neuronal Sensitivity to Ethanol”
\$553,894; 9/30/2008 – 8/31/2013 (including 1-year no cost extension)
PI: Conti

2013

VA Shared Equipment Evaluation Program
Department of Veterans Affairs
\$320,000; 6/2013
PI: Shared amongst 8 VA investigators, including A. Conti at John D. Dingell VAMC

- 2012 Dr. Jack Ryan Research Award
Endowed by the Dr. Morris S. Brent Fund
Wayne State University School of Medicine Medical Alumni Reunion Day
“Juvenile Traumatic Brain Injury Alters Synaptic Development That May Increase Mood and Anxiety Disorders in Adulthood”
\$5,000; 5/2012
PI: Conti
- 2003-2004 NIDA Postdoctoral Training Fellowship
Department of Psychiatry
University of Pennsylvania
Philadelphia, Pennsylvania
PI: C. O’Brien
Role: Trainee
- 2011-2012 Children’s Hospital Foundation of Michigan
The Health and Wellness Foundation of Greater Detroit
“Juvenile Traumatic Brain Injury”
\$83,965; 1/1/2011-12/31/2012
PI: Conti
- 2010-2012 Junior Faculty Award in the Social and Behavioral Sciences
Wayne State University
Office of the Vice President for Research
“Juvenile Traumatic Brain Injury Impact on Depression and Anxiety-Like Behavior in the Adult Mouse”
\$50,351; 5/31/2010 – 12/31/2012
PI: Conti
- 2006-2008 NICHD Postdoctoral Training Fellowship
Department of Developmental Biology
Washington University in St. Louis
St. Louis, Missouri
PI: I. Boime
Role: Trainee

Previously Submitted, Not Funded

Children’s Hospital Foundation of Michigan (Sept. 2013)
The Health and Wellness Foundation of Greater Detroit
“Risk of Alcohol Use Disorders in Fetal Alcohol-Exposed Juveniles and Adolescents”
PI: Conti

Charles W. Haynes Fellowship- North American Brain Injury Society (Aug. 2011)
PI: Conti

Ralph Powe, Jr. Faculty Award- Oak Ridge Associated Universities (Jan. 2010)
PI: Conti

ROLE OTHER THAN PRINCIPAL INVESTIGATOR

Active Funding

National

- 2014-2019 VA Career Development Award
Department of Veterans Affairs
Rehabilitation Research and Development Service
“Adenylyl Cyclase 1 as a Therapy Target for Ethanol-induced Neuroplastic Deficits”
\$698,589; 1/2015-12/2019
PI: Kelly Bosse, PhD
Priority score = 158 (NIH-based score where 100 is the best possible score
Pending council review (Oct 2014)
Role: Sponsor/Faculty Mentor, no allowable effort/salary
- 2014-2016 American Heart Association
“Oxygen and Ethanol as Synergetic Combination Therapy for Severe Ischemic Stroke”
\$143,000; 7/1/2014-6/30/2016
PI: Yuchuan Ding, MD/PhD
Department of Neurosurgery
Wayne State University
Role: Collaborator and advisor for alcohol-related aspects of the proposal. Will provide insight into study design and data interpretation, no allowable effort/salary
- Pending Funding**
National
- 2016-2021 NIH/NIAAA R01
“The Impact of Chronic Alcohol Exposure on Striatal Function and Endocannabinoid Signaling Following Traumatic Stress”
\$1,249,777 Direct Costs; 9/2016-8/2021
PI: Perrine; co-I: **Conti**
Role: Collaborator and advisor for alcohol-related aspects of the proposal. Provided insight into study design and data interpretation (40% effort)
- 2016-2020 VA Merit Review Award
Department of Veterans Affairs
Rehabilitation Research and Development Service
“Cannabinoids for Posttraumatic Stress Disorder and Alcohol Use”
\$999,063
PI: Perrine; co-I: **Conti**
Dept. of Psychiatry and Behavioral Neurosciences
Wayne State University
Role: Collaborator and advisor for alcohol-related aspects of the proposal. Provided insight into study design and data interpretation (40% effort)
- 2016 VA Shared Equipment Evaluation Program
Department of Veterans Affairs
Request for Vevo 3100 noninvasive imaging in neurocardiovascular and oncologic disease models
\$566,730; 6/2016
PI: Rossi; shared amongst 7 VA investigators, including A. Conti at John D. Dingell VAMC

Previously Funded

National

- 2012-2015 VA Merit Review Award
Department of Veterans Affairs
Rehabilitation Research and Development Service
“TBI and Alcohol Abuse: Co-Occurring Conditions That Enhance Brain Damage”
\$1,011,976; 11/1/2011-10/31/2015
PI: Kuhn
Dept. of Psychiatry and Behavioral Neurosciences
Wayne State University
Role: Collaborator and advisor for alcohol-related aspects of the proposal.
Provided insight into study design and data interpretation (0% effort)
- 2011-2014 NIH/NIAAA F32 Ruth L. Kirschstein National Research Service Award for
Individual Postdoctoral Fellows
“AC1 and AC8 as Mediators of the Dendritic Response to Ethanol in a Model of
FASD”
\$156,438; 9/18/2011-9/17/2014
PI: Laura Susick, PhD
Priority score = 18
Dept. of Neurosurgery
Wayne State University
Role: Sponsor/Faculty Mentor, no allowable effort/salary

Previously Submitted, Not Funded

- NIH/NHLBI R21
“Aldehyde dehydrogenases protect cardiac stem cells from aldehydic injury”
4/1/2015 – 3/31/2018
PI: Suresh Palaniyandi, PhD
Department of Internal Medicine
Henry Ford Health System
Role: Collaborator and advisor for alcohol-related aspects of the proposal. Will provide insight into
study design and data interpretation (5% effort)
- NIH/NIGMS K08 Mentored Clinical Scientist Development Award
“The Role of Innate Immunity in Traumatic Brain Injury-induced Immune Suppression”
4/1/2015 – 3/31/2018
PI: Steven Schwulst, MD
Department of Surgery
Northwestern University Feinberg School of Medicine
Chicago, IL
Role: Expert for TBI-related aspects of the proposal and mentoring team member. Provide insight into
model development and data interpretation (0% effort)
- NIH/NIGMS R01
“The Role of Innate Immunity in Traumatic Brain Injury-induced Immune Suppression Syndrome”
PI: Steven Schwulst, MD
Department of Surgery
Northwestern University Feinberg School of Medicine
Chicago, IL

Role: Collaborator, expert for TBI-related aspects of the proposal. Provide insight into model development and data interpretation (5% effort)

VA Merit Review Award

Department of Veterans Affairs

Rehabilitation Research and Development Service

“Development and characterization of a mouse model of human repetitive mild TBI”

PI: Donald Kuhn, PhD

Dept. of Psychiatry and Behavioral Neurosciences, Wayne State University

Role: Collaborator

NIH/NIAAA R03

“Neuroplasticity of striatal BDNF and dopamine after voluntary ethanol”

PI: Tiffany Mathews, PhD

Department of Chemistry, Wayne State University

Role: Collaborator

NIH/NIAAA R25 NIH Summer Research Experience Program

“Summer Mentoring Alcohol and Research Training Program for Diverse Undergraduates”

PIs: Xiaoming Li, PhD (Pediatric Prevention Research Center) and John Hannigan, PhD (Merrill Palmer Skillman Institute), Wayne State University

Role: Chair of recruitment committee as proposed in application

NIH/NIGMS R01

“Advanced Lanthanide-Based Contrast Enhancement Strategies”

PI: Matthew J. Allen, PhD

Department of Chemistry, Wayne State University

Role: Collaborator

NIH/NIAAA R01

“The Interplay between Ethanol, Dopamine and BDNF”

PI: Tiffany Mathews, PhD

Department of Chemistry, Wayne State University

Role: Collaborator

NIH/NIAAA F32 Ruth L. Kirschstein National Research Service Award for Individual Postdoctoral Fellows

“BDNF, Stress, and Ethanol”

PI: Kelly Bosse, PhD

Department of Chemistry, Wayne State University

Role: Mentoring Team Member

NIH/NIAAA K01 Mentored Career Development Award for Postdoctoral Fellows

“Novel Postsynaptic Regulation of Ethanol Sensitivity by Adenylyl Cyclases 1 and 8”

PI: Kelly Bosse, PhD

Dept. of Neurosurgery, Wayne State University

Role: Sponsor/Faculty Mentor

PUBLICATIONS

Peer Reviewed Publications

Reports of Original Works

1. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, M.P. Galloway, S.A. Perrine, **A.C. Conti**. Increased cortical GABA precedes incomplete extinction of conditioned fear and increased hippocampal excitatory tone in a mouse model of mild traumatic brain injury. *Journal of Neurotrauma*. In Press, 2015 Nov 3. Impact factor = 4.0
**trainee under direct supervision of A. Conti

Journal of Neurotrauma is the flagship, leading peer-reviewed journal exclusively focused on the clinical and laboratory investigation of traumatic brain and spinal cord injury. This is the essential journal publishing cutting-edge basic and translational research in traumatically-injured human and animal studies, with emphasis on neurodegenerative disease research linked to CNS trauma.
2. L.L. Susick**, A.C. Chrumka**, S.M. Hool**, **A.C. Conti**. Dysregulation of TrkB phosphorylation and proBDNF protein in adenylyl cyclase 1 and 8 knockout mice in a model of fetal alcohol spectrum disorder. *Alcohol*, 51, 25-35, 2016. Impact factor = 2.0
**trainee under direct supervision of A. Conti
3. S.A. Perrine, A.L. Eagle, S.A. George, K. Mulo, R.J. Kohler, J. Gerard, A. Harutyunyan, S.M. Hool**, L.L. Susick**, B.L. Schneider**, F. Ghoddoussi, M.P. Galloway, I. Liberzon I, **A.C. Conti**. Severe, multimodal stress exposure induces PTSD-like characteristics in a mouse model of single prolonged stress. *Behavioral Brain Research*. 303, 228-237, 2016. Impact factor = 3.4
**trainee under direct supervision of A. Conti
4. S.A. Perrine, F. Ghoddoussi, K. Desai, R.J. Kohler, A.T. Eapen**, M.J. Lisieski, M. Angoa-Perez, D.M. Kuhn, K.E. Bosse**, **A.C. Conti**, D. Bissig, B.A. Berkowitz. Cocaine-induced locomotor sensitization in rats correlates with nucleus accumbens activity on manganese-enhanced MRI. *NMR Biomedicine*. 28(11):1480-8, 2015. Impact factor = 3.6
**trainee under direct supervision of A. Conti
Role: design, implementation, data analysis and manuscript writing
5. K.E. Bosse**, J.L. Charlton**, L.L. Susick**, B. Newman, A.L. Eagle, T.A. Mathews, S.A. Perrine, **A.C. Conti**. Deficits in behavioral sensitization and dopaminergic responses to methamphetamine in adenylyl cyclase 1/8-deficient mice. *Journal of Neurochemistry*. 135(6):1218-31, 2015. Impact factor = 4.3
**trainee under direct supervision of A. Conti
6. J.L. Lowing**, L.L. Susick**, J.P. Caruso**, A.M. Provenzano**, R. Raghupathi, **A.C. Conti**. Experimental Traumatic Brain Injury Alters Ethanol Consumption and Sensitivity. *Journal of Neurotrauma*. 15(20):1700-10, 2014. Impact factor = 4.0
**trainee under direct supervision of A. Conti
7. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, C.C. Hildebrandt**, **A.C. Conti**. Postnatal ethanol exposure simplifies the dendritic morphology of medium spiny neurons independently of adenylyl cyclase 1 and 8 activity in mice. *Alcoholism: Clinical and Experimental Research*. 38(5):1339-46, 2014. Impact factor = 3.3
**trainee under direct supervision of A. Conti

ACER is the highest ranked journal that is devoted exclusively to alcohol and alcoholism research and is ranked third (out of 16) in the category of Substance Abuse journals.

8. L.L. Susick**, J.L. Lowing**, K.E. Bosse**, C.C. Hildebrandt**, A.C. Chrumka**, **A.C. Conti**. Adenylyl cyclases 1 and 8 mediate select striatal-dependent behaviors and sensitivity to ethanol stimulation in the adolescent period following acute neonatal ethanol exposure. *Behavioral Brain Research*. 269:66-74, 2014. Impact factor = 3.4
**trainee under direct supervision of A. Conti
9. W.A. Li#, S. Moore-Langston, T. Chakraborty, J.A. Rafols, **A.C. Conti**, Y. Ding. Hyperglycemia-induced Injuries in Stroke and Possible Treatments. *Neurology Research*. 35(5):479-91, 2013. Impact factor = 1.4
served as BMS essay committee member for designated student
Role: mentored student in writing manuscript as part of BMS master's thesis
10. **A.C. Conti**, J.L. Lowing**, L.L. Susick**, S.E. Bowen. Differential Effects of Adenylyl Cyclase 1 and 8 Activity on Toluene and Ethanol Action. *Neurotoxicology and Teratology*. 34(5):481-8, 2012. Impact factor = 3.2
**trainee under direct supervision of A. Conti
11. **A.C. Conti**, C. Young, J.W. Olney, L.J. Muglia. Adenylyl Cyclase 1 and 8 Modulate Pro-Survival Pathways After Ethanol Exposure in the Neonatal Brain. *Neurobiology of Disease*. 33(1):111-8, 2009. Impact factor = 5.6
12. **A.C. Conti**, J.W. Maas, Jr., K.L. Moulder, X. Jiang, B.A. Dave**, S. Mennerick, L.J. Muglia. Adenylyl Cyclases 1 and 8 Initiate a Presynaptic Homeostatic Response to Ethanol Treatment. *PLoS ONE*, 4(5): e5697, 2009. Impact factor = 3.5
**trainee under direct supervision of A. Conti
13. S. Mackler, A. Pacchioni, R. Degnan, Y. Homan, **A.C. Conti**, P. Kalivas and J.A. Blendy. Requirement for the POZ/BTB Protein NAC1 in Acute but not Chronic Psychomotor Stimulant Response. *Behavioural Brain Research*. 187:48-55, 2008. Impact factor = 3.4
Role: study design, implementation, data analysis and manuscript writing
14. K.L. Moulder, X. Jiang, C.Y. Chang, A.A. Taylor, A.M. Benz, **A.C. Conti**, L.J. Muglia, S. Mennerick. A specific role for Ca²⁺-dependent adenylyl cyclases in recovery from adaptive presynaptic silencing. *Journal of Neuroscience* 28(20):5159-68, 2008. Impact factor = 6.7
Role: study design and implementation
15. M. Zhang, C. Moon, G.C.-K. Chan, L. Yang, F. Zheng, **A.C. Conti**, L. Muglia, L.J. Muglia, D.R. Storm, H. Wang. Ca-stimulated type 8 adenylyl cyclase is required for rapid acquisition of novel spatial information and for working/episodic-like memory. *Journal of Neuroscience*, 28(18):4736-44, 2008. Impact factor = 6.7
Role: study design, implementation, data analysis and manuscript writing
16. T.L. Gur, **A.C. Conti**, J. Holden, A.J. Bechtolt, T.E. Hill, I. Lucki, J.E. Malberg, J.A. Blendy. cAMP Response Element-Binding Protein Deficiency Allows for Increased Neurogenesis and a Rapid Onset of Antidepressant Response. *Journal of Neuroscience* 27(29):7860-68, 2007. Impact factor = 6.7
Role: study design, implementation, data analysis and manuscript writing
17. **A.C. Conti**, J.W. Maas, Jr., L.M. Muglia, B.A. Dave**, S.K. Vogt, T.T. Tran**, E.J. Rayhel, L.J. Muglia. Distinct Regional and Subcellular Localization of Adenylyl Cyclases Type 1 and 8 in Mouse Brain. *Neuroscience* 146:713-29, 2007. Impact factor = 3.3
**trainee under direct supervision of A. Conti

18. **A.C. Conti**, Y.C. Kuo, R.J. Valentino, J.A. Blendy. Inducible cAMP Early Repressor (ICER) Regulates Corticosterone Suppression After Tricyclic Antidepressant Treatment. *Journal of Neuroscience* 24(8):1967-75, 2004. Impact factor = 6.7
19. S.A. Mackler, Y.X. Homan, L. Korutla, **A.C. Conti**, J.A. Blendy. The Mouse Nac-1 Gene, Encoding a Cocaine-regulated BTB/POZ Protein is Regulated by AP1. *Neuroscience* 121(2):355-61, 2003. Impact factor = 3.3
Role: study design, implementation, data analysis and manuscript writing
20. R. Raghupathi, **A.C. Conti**, D.I. Graham, S. Krajewski, J.C. Reed, M.S. Grady, J.Q. Trojanowski, T.K. McIntosh. Mild Traumatic Brain Injury Induces Apoptotic Cell Death in the Cortex that is Preceded by Decreases in Cellular Bcl-2 Immunoreactivity. *Neuroscience* 110(4):605-16, 2002. Impact factor = 3.3
Role: study design, implementation and data analysis
21. **A.C. Conti**, J.F. Cryan, A. Dalvi, I. Lucki, J.A. Blendy. cAMP Response Element Binding Protein is Essential for the Upregulation of Brain-Derived Neurotrophic Factor Transcription, but not the Behavioral or Endocrine Responses to Antidepressant Drugs. *Journal of Neuroscience* 22(8):3262-8, 2002. Impact factor = 6.7
22. **A.C. Conti**, R. Raghupathi, A.D. Rink, J.Q. Trojanowski, T.K. McIntosh. Experimental Brain Injury Induces Regionally Distinct Apoptosis During the Acute and Post-Traumatic Period. *Journal of Neuroscience* 18(15):5663-72, 1998. Impact factor = 6.7
23. S. Radin, P. Ducheyne, **A. Conti**, and B. Rothman. The Effect of In Vitro Modeling Conditions on the Surface Reactions on Bioactive Glass. *Journal of Biomedical Materials Research* 37: (3) 363-375, 1997. Impact factor = 2.8
Role: study design, implementation and data analysis

Review Articles

1. **A.C. Conti** and J.A. Blendy. Regulation of Antidepressant Activity by cAMP Response Element Binding Proteins. *Mol. Neurobiol.* 30(2):143-55, 2004. Impact factor = 5.3

Book Authorships, Editorships and Chapters

1. J.P. Caruso**, J.L. Lowing**, **A.C. Conti**. Modeling TBI-induced Alterations in Alcohol Use Behaviors. In: F. Kobiessey (ed.) *Brain Injury Principles: Molecular, Neuropsychological, and Rehabilitation Aspects in Brain Injury Models*, Taylor & Francis Group, USA (CRC Press, Inc), 2014.
**trainee under direct supervision of A. Conti
2. **A.C. Conti**, M.E. Selzer. The role of cytoskeleton in regeneration of CNS axons. In: N.R. Saunders and K.M. Dziegielowska (eds.) *Degeneration and Regeneration in the Nervous System*, Harwood Academic Publishers, pp 153-169, 2000.

Abstracts

National Conferences: Published and Refereed

1. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, M.P. Galloway, S.A. Perrine, **A.C. Conti**. "Fear conditioning alters excitatory/inhibitory tone in fear learning circuit of mice with mild traumatic brain injury." Society for Neuroscience, 2015
**trainee under direct supervision of A. Conti

2. J.J. Matchynski**, W.D. Carr, A.L. Eagle, L.L. Susick**, J.L. Charlton**, R.J. Kohler, B.L. Schneider**, **A.C. Conti**, S.A. Perrine. "Increased consumption but normal acute response to ethanol in a mouse model of posttraumatic stress disorder." Research Society on Alcoholism, 2015
3. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, M.P. Galloway, S.A. Perrine, A.C. Conti AC. "Traumatic brain injury precedes enhanced fear conditioning and subregional changes in hippocampal excitatory/inhibitory tone." National Neurotrauma Society, 2015
**trainee under direct supervision of A. Conti
4. K.M. Knouna**, L.L. Susick**, A.J. Minwalla**, **A. C. Conti**. "The role of adenylyl cyclases 1 and 8 in survival pathways in ethanol-treated neonatal mice: A FASD model." Annual Biomedical Research Conference for Minority Students, 2015
**trainee under direct supervision of A. Conti
5. K.E. Bosse**, C. Sinai**, J. Brandenburg**, **A.C. Conti**. "Genetic deletion or pharmacological inhibition of adenylyl cyclase 1 reduces voluntary ethanol consumption and preference." Research Society on Alcoholism, 2015
**trainee under direct supervision of A. Conti
6. K.E. Bosse**, L.L. Susick**, S. Ramalingam**, **A.C. Conti**. "Role for adenylyl cyclase 1 in ethanol-mediated locomotor sensitization and striatal NMDA glutamate receptor regulation." Research Society on Alcoholism, 2015
**trainee under direct supervision of A. Conti
7. A.C. Conti, B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R. Kohler, S.A. Perrine. "Mild traumatic brain injury increases fear behaviors that are accompanied by increased cortical GABA levels." Winter Conference on Brain Research, Big Sky, MT, 2015
**trainee under direct supervision of A. Conti
8. L.L. Susick**, J.L. Lowing**, K.E. Bosse**, J.J. Matchynski**, **A.C. Conti**. "Voluntary ethanol consumption in wild type and adenylyl cyclase 1 and 8 knockout mice." Research Society on Alcoholism, 2014
**trainee under direct supervision of A. Conti
9. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Adenylyl Cyclase 1 and 8 deletion increases vulnerability for behavioral alterations in adulthood following acute early-life ethanol exposure." Research Society on Alcoholism Abstract No. , 2014
10. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Enhanced sensitivity to the long-term effects of early-life alcohol exposure on adult behavior in adenylyl cyclase 1/8 knockout mice." Gordon Research Conference- Alcohol and the Nervous System, 2014
**trainee under direct supervision of A. Conti
11. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, J.P. Caruso, S.A. Perrine, **A.C. Conti**. "Impaired dopamine signaling and locomotor sensitization response to ethanol in mice lacking calcium-sensitive adenylyl cyclase 1 and 8." Gordon Research Conference- Alcohol and the Nervous System, 2014
**trainee under direct supervision of A. Conti

12. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Adenylyl cyclase 1 and 8 deletion increases vulnerability for behavioral alterations following acute early-life alcohol exposure." Gordon Research Conference- Alcohol and the Nervous System, 2014
**trainee under direct supervision of A. Conti
13. M.P. Galloway, C.D. Hattaway, F. Ghoddoussi, **A.C. Conti**. "Acute fentanyl-induced increase in cortical serotonin, but not striatal dopamine, turnover absent in mice lacking adenylyl cyclase isoforms AC1 and AC8." Soc. Neurosci. Abst., Program No. 327.12, 2014
14. J.J. Matchynski**, L.L. Susick**, B.S. Schneider**, S.A. Perrine, **A.C. Conti**. "Decreased ethanol-induced sensitization is associated with decreased cannabinoid receptor-1 in a mouse model of posttraumatic stress disorder." Soc. Neurosci. Abst., Program No. 429.15, 2014
**trainee under direct supervision of A. Conti
15. J.J. Matchynski**, L.L. Susick**, R.J. Kohler, B.L. Schneider**, S.A. Perrine, **A.C. Conti**. "Decreased ethanol-induced sensitization following traumatic stress exposure in a mouse model of posttraumatic stress disorder." Research Society on Alcoholism, Abstract No., 2014
**trainee under direct supervision of A. Conti
16. J.L. Lowing**, L.L. Susick**, J.J. Matchynski**, B.S. Schneider**, **A.C. Conti**. "Increased chronic ethanol consumption following mild traumatic brain injury in the mouse." Research Society on Alcoholism, Abstract No. 056, 2014
**trainee under direct supervision of A. Conti
17. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R. Kohler, S.A. Perrine, **A.C. Conti**. "Augmented fear behavior following traumatic brain injury is accompanied by increased cortical GABA". National Neurotrauma Society, 2014
**trainee under direct supervision of A. Conti
18. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R. Kohler, S.A. Perrine, **A.C. Conti**. "Enhanced fear learning and increased cortical GABA following mild traumatic brain injury in mice". Soc. Neurosci. Abst., Program No. 608.26, 2014
**trainee under direct supervision of A. Conti
19. J.L. Lowing**, L.L. Susick**, R. Raghupathi, **A.C. Conti**. "Traumatic Brain Injury Alters Ethanol Sensitivity and Consumption in Mice." Research Society on Alcoholism, Abstract No. 088, 2013
**trainee under direct supervision of A. Conti
20. J.L. Lowing**, L.L. Susick**, J.L. Matchynski**, B.L. Schneider**, A.C. Conti. "Mild experimental TBI increases ethanol consumption in the delayed post-TBI period." National Neurotrauma Society, 2014.
**trainee under direct supervision of A. Conti
21. L.L. Susick**, J.L. Lowing**, K.E. Bosse**, A.C. Chrumka**, **A.C. Conti**. "Striatal-dependent developmental behaviors are not affected by neonatal ethanol exposure." Research Society on Alcoholism, Abstract No. 127, 2013
**trainee under direct supervision of A. Conti
22. L.L. Susick**, J.L. Lowing**, S.M. Hool**, **A.C. Conti**. "Effects of Neonatal Ethanol Exposure on BDNF and TRKB Protein Expression in Wild Type and Adenylyl Cyclase 1/8 Knockout Mice." Research Society on Alcoholism, Abstract No. 386, 2013

**trainee under direct supervision of A. Conti

23. J.K. Shaw*, **A.C. Conti**, R. Raghupathi. "Traumatic Brain Injury Increases Ethanol Consumption in Female Rats." Research Society on Alcoholism, Abstract No. 455, 2013
*student awarded travel award and selected for oral presentation at national meeting based on collaborative project with A. Conti
24. R. Roberts, **A.C. Conti**, B.A. Berkowitz. "Mice lacking Adenylyl Cyclase (AC) 1 and 8 Mimic Supernormal Intraretinal Ion Channel Activity in Light-adapted Diabetic Mice but have No Impairment in Visual Performance." Association for Research in Vision and Ophthalmology, Abstract No. B0079, 2013
25. B.L. Schneider**, E.L. Henson**, L.L. Susick**, J.L. Lowing**, **A.C. Conti**. "Effects of non-contusive TBI severity on dendritic morphology of medium spiny neurons." National Neurotrauma Society, Abstract No. A46, 2013
**trainee under direct supervision of A. Conti
26. L.L. Susick**, J.L. Lowing**, S.M. Hool**, **A.C. Conti**. "Neonatal ethanol exposure affects the phosphorylation of the BDNF receptor, TrkB, in wild type and adenylyl cyclase 1/8 knockout mice." Soc. Neurosci. Abst., Program No. 154.11, 2013
**trainee under direct supervision of A. Conti
27. K. Desai, F. Ghoddoussi, R.J. Kohler, A.T. Eapen**, K.E. Bosse**, **A.C. Conti**, B.A. Berkowitz, S.A. Perrine. "Cocaine-induced behavioral sensitization is associated with increased striatal neuroactivity as measured by manganese enhanced magnetic resonance imaging (MEMRI) in freely moving rats." Soc. Neurosci. Abst., Program No. 489.09, 2013
**trainee under direct supervision of A. Conti
28. A.L. Eagle, K. Mulo, R.J. Kohler, A.C. Conti, S.A. Perrine. "Single prolonged stress: Validity of translating PTSD model into mice." Soc. Neurosci. Abst., Program No. 543.01, 2013
BMS essay committee member; mentored student in abstract and poster preparation
29. J.P. Caruso**, L.L. Susick**, J.L. Lowing**, **A.C. Conti**. "Effects of traumatic brain injury and ethanol exposure on synapsin phosphorylation in the striatum." Soc. Neurosci. Abst., Program No. 724.05, 2013
**trainee under direct supervision of A. Conti
30. J.L. Lowing**, K.E. Bosse**, L.L. Susick**, A.L. Eagle, T.A. Mathews, S.A. Perrine, A.C. Conti. "Deficits in behavioral sensitization and dopaminergic responses to methamphetamine in adenylyl cyclase 1/8 knockout mice." Soc. Neurosci. Abst., Program No. 817.02, 2013
**trainee under direct supervision of A. Conti
31. J.L. Lowing**, L.L. Susick**, S.E. Bowen, **A.C. Conti**. "Genetic Deletion of Adenylyl Cyclases 1 and 8 Attenuates the Locomotor Stimulating Effects of Ethanol." Research Society on Alcoholism, Abstract No., 0853, 2012
**trainee under direct supervision of A. Conti
32. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Neonatal Alcohol Exposure in Mice Alters Dendritic Morphology in the Caudate Putamen Independently of Adenylyl Cyclases 1/8 Function." Research Society on Alcoholism, Abstract No. 0797, 2012
**trainee under direct supervision of A. Conti

33. E.L. Henson**, J.L. Lowing**, L.L. Susick**, R. Raghupathi, **A.C. Conti**. "Effects of Acute Ethanol Treatment on Synapsin Phosphorylation in the Delayed Post-Traumatic Period." National Neurotrauma Society, Abstract No. D85, 2012
**trainee under direct supervision of A. Conti
34. J.L. Lowing**, L.L. Susick**, S.E. Bowen, **A.C. Conti**. "Adenylyl Cyclases 1 and 8 Modulate Ethanol-Induced Locomotor Activation." Soc. Neurosci. Abst., Program No. 560.07, 2012
**trainee under direct supervision of A. Conti
35. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Acute Postnatal Ethanol Exposure Reduces Striatal Features of Dendritic Morphology and Complexity with Limited Effects of Adenylyl Cyclases Type 1 and 8." Soc. Neurosci. Abst., Program No. 255.01, 2012
**trainee under direct supervision of A. Conti
36. F. Ghoddoussi, N. Sawaf, J. Lowing**, L. Susick**, **A.C. Conti**, M.P. Galloway. "¹H-MRS Analysis of Neurochemical Response after Acute Treatment with the μ -opioid Agonist Fentanyl in Mice Lacking Adenylyl Cyclase Isoforms 1 and 8." Soc. Neurosci. Abst., Program No. 872.09, 2012
**trainee under direct supervision of A. Conti
37. **A. Conti**, L. Susick**, J. Lowing**, S.E. Bowen. "Adenylyl cyclases types 1 and 8 alter behavioral responses to toluene." The College on Problems of Drug Dependence, Abstract No. 1035218, 2011
**trainee under direct supervision of A. Conti
38. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." National Neurotrauma Society, Abstract No. 0068, 2011
**trainee under direct supervision of A. Conti
39. M.P. Galloway, F. Ghoddoussi, N. Sawaf, M. Marsh, **A.C. Conti**. "¹H-MRS Analysis of Neurochemical Profiles after Acute Ethanol in Adult Mice Lacking Adenylyl Cyclase Isoforms 1 and 8." American College of Neuropsychopharmacology, Abstract No. 1945, 2011
40. **A.C. Conti**, C. Young, J.W. Olney, L.J. Muglia. "Adenylyl cyclases types 1 and 8 promote pro-survival pathways after ethanol exposure in the neonatal brain." Soc. Neurosci. Abst., Program No. 847.12, 2008
41. **A.C. Conti**, J.W. Maas, Jr., L.M. Muglia, L.J. Muglia. "Adenylyl cyclases 1 and 8 modulate the presynaptic response to ethanol." Soc. Neurosci. Abst., Program No. 292.17, 2006
42. **A.C. Conti**, D.F. Wozniak, and L.J. Muglia. "Adenylyl cyclase-deficient mice exhibit altered despair and anxiety behaviors." Soc. Neurosci. Abst., Program No. 108.13, 2005
43. **A.C. Conti**, J.E. Malberg, and J.A. Blendy. "CREB-deficient Mice Exhibit Increased Neurogenesis." Soc. Neurosci. Abst., Program No. 849.4, 2003
44. **A.C. Conti** and J.A. Blendy. "CREM Mediates Suppression of Swim-Stress Induced HPA Axis Activity Following Antidepressant Treatment." Soc. Neurosci. Abst., Program No. 306.20, 2002
45. S.A. Mackler, Y.X. Homan, **A.C. Conti**, L. Korutla, and J.A. Blendy. "Cloning and Promoter Analysis of Mouse NAC-1 Gene." Soc. Neurosci. Abst., Program No. 500.15, 2002

46. **A.C. Conti**, A. Dalvi, I. Lucki, and J.A. Blendy. "Behavioral and Molecular Response of CREB-Deficient Mice Following Antidepressant Treatment." *Soc. Neurosci. Abst.* 25: 397, 1999
47. S. Radin, P. Ducheyne, and **A. Conti**. "Solution Effects on the Structure and Composition of Bioactive Glass Reaction Surfaces." *Proceedings of the Fifth World Biomaterials Congress*, p. S5, 1996
48. **A.C. Conti**, R. Raghupathi, O. Becher, A.D. Rink, J.Q. Trojanowski, and T.K. McIntosh. "Delayed Apoptotic Cell Death Following Lateral Fluid-Perfusion Brain Injury in the Rat: A Long-Term Study." *J. Neurotrauma.* (13): 595, 1996
49. **A.C. Conti**, C.M. Hylton, R. Raghupathi, D.H. Smith, J.Q. Trojanowski, V. Lee, and T.K. McIntosh. "Magnesium Deficiency Decreases the Occurrence of Apoptosis After Traumatic Brain Injury." *J. Neurotrauma.* (12): 986, 1995

Local and Regional Conferences/Symposia: Unpublished

1. M.D. Pezzillo**, J.L. Charlton**, **A.C. Conti**. "Analysis of IBA-1 and the inflammatory response in young adult mice after mild traumatic brain injury." Wayne State University Medical Student Research Symposium, 2016
**trainee under direct supervision of A. Conti
2. A.M. Figacz, J. Gerard, **A.C. Conti**, D. Aikins, S.A. Perrine. "Single prolonged stress in mice impairs extinction retention of conditioned fear and increases serotonergic activity in the amygdala". Michigan Chapter of the Society for Neuroscience, 2015
3. J.J. Matchynski**, Susick L.L**, B.L. Schneider**, S.A. Perrine, **A.C. Conti**. "Disruption of ethanol locomotor-sensitization by severe, multimodal stress is associated with decreased striatal CB1." Michigan Chapter of the Society for Neuroscience, MI, 2015
**trainee under direct supervision of A. Conti
4. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, S.A. Perrine, **A.C. Conti**. "Enhanced fear conditioning and subregional changes in hippocampal excitatory/inhibitory tone following mild traumatic brain injury in mice." John D. Dingell VA Research Day, 2015
**trainee under direct supervision of A. Conti
5. L.L. Susick**, K.M. Knouna**, A.J. Minwalla**, **A.C. Conti**. "Neonatal ethanol exposure or lack of adenylyl cyclases 1 and 8 increases PSD-95 expression in the striatum of mice." John D. Dingell VA Research Day, 2015.
**trainee under direct supervision of A. Conti
6. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, S.A. Perrine, **A.C. Conti**. "Enhanced fear conditioning and subregional changes in hippocampal excitatory/inhibitory tone following mild traumatic brain injury in mice." Michigan Chapter of the Society for Neuroscience, 2015
**trainee under direct supervision of A. Conti
7. K.E. Bosse**, L.L. Susick**, S. Ramalingam**, **A.C. Conti**. "Genetic deletion of adenylyl cyclases 1 impairs ethanol-mediated neuroadaptive effects in locomotor sensitization and striatal NMDA receptor function." Michigan Chapter of the Society for Neuroscience, 2015
**trainee under direct supervision of A. Conti

8. L.L. Susick**, K.M. Knouna**, A.J. Minwalla**, **A.C. Conti**. "Neonatal ethanol exposure or lack of adenylyl cyclases 1 and 8 increases PSD-95 expression in the striatum of mice." Michigan Chapter of the Society for Neuroscience, 2015
**trainee under direct supervision of A. Conti
9. M.D. Pezzillo**, J.L. Charlton, **A.C. Conti**. "Analysis of IBA-1 and the inflammatory response in young adult mice after mild traumatic brain injury." Michigan Chapter of the Society for Neuroscience, 2015
**trainee under direct supervision of A. Conti
10. K.M. Knouna**, L.L. Susick**, A.J. Minwalla**, **A.C. Conti**. "The role of adenylyl cyclases 1 and 8 in survival pathways in ethanol-treated neonatal mice: A FASD model." John D. Dingell VA Research Day, 2015
**trainee under direct supervision of A. Conti
11. K.M. Knouna**, L.L. Susick**, A.J. Minwalla**, **A.C. Conti**. "The role of adenylyl cyclases 1 and 8 in survival pathways in ethanol-treated neonatal mice: a FASD model." 4th Annual Summer Undergraduate Symposium, Wayne State University, 2015
**trainee under direct supervision of A. Conti
12. K.E. Bosse**, L.L. Susick**, S. Ramalingam**, **A.C. Conti**. "Genetic deletion of adenylyl cyclase 1 impairs ethanol-mediated neuroadaptive effects on locomotor sensitization and striatal NMDA receptor function." John D. Dingell VA Research Day, 2015.
**trainee under direct supervision of A. Conti
13. M.J. Lisieski, **A.C. Conti**, M.L. Tomaszycycki, S.A. Perrine. "Modeling cocaine-mediated vulnerability to traumatic stress in rats." Michigan Chapter of the Society for Neuroscience, 2014.
14. J. Strader, W.D. Carr, **A.C. Conti**, D.E. Aikins, S.A. Perrine. "Stress-induced and individual differences in a mouse discriminatory fear conditioning task." Michigan Chapter of the Society for Neuroscience, 2014.
15. J.J. Matchynski**, L.L. Susick**, R.J. Kohler, B.L. Schneider**, S.A. Perrine, **A.C. Conti**. "Decreased ethanol-induced behavioral sensitization in a mouse model of posttraumatic stress disorder." Michigan Chapter of the Society for Neuroscience, 2014
**trainee under direct supervision of A. Conti
16. L.L. Susick**, J.L. Lowing**, S.M. Hool**, **A.C. Conti**. "Neonatal ethanol exposure affects the phosphorylation of the BDNF receptor, TrkB, in wild type and adenylyl cyclase 1/8 knockout mice." Wayne State University's President's Inaugural Symposium, 2014.
**trainee under direct supervision of A. Conti
17. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R.J. Kohler, S.A. Perrine, **A.C. Conti**. "Fear learning is enhanced following mild traumatic brain injury in mice and is accompanied by increased GABA in the prefrontal cortex." Michigan Chapter of the Society for Neuroscience, 2014
**trainee under direct supervision of A. Conti
18. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Adenylyl cyclase 1 and 8 knockout mice are more sensitive to the long-term consequences of

neonatal ethanol exposure on adult behavioral." Michigan Chapter of the Society for Neuroscience, 2014

**trainee under direct supervision of A. Conti

19. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Adenylyl cyclase 1 and 8 deletion increases vulnerability for behavioral alterations following acute early-life alcohol exposure." John D. Dingell VA Medical Center Research Day, 2014
**trainee under direct supervision of A. Conti
20. B.L. Schneider**, F. Ghoddoussi, J.L. Charlton**, R. Kohler, S.A. Perrine, **A.C. Conti**. "Enhanced fear learning and increased cortical GABA following mild traumatic brain injury". John D. Dingell VA Research Day, 2014.
**trainee under direct supervision of A. Conti
21. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, J.P. Caruso, S.A. Perrine, **A.C. Conti**. "Impaired dopamine signaling and locomotor sensitization response to ethanol in mice lacking calcium-sensitive adenylyl cyclase 1 and 8." Michigan Chapter of the Society for Neuroscience, 2014
**trainee under direct supervision of A. Conti
22. K.E. Bosse**, L.L. Susick**, J.L. Lowing**, S. Ramalingam**, C.C. Hildebrandt**, **A.C. Conti**. "Adenylyl Cyclase 1 and 8 Knockout mice are more sensitive to the long-term consequences of neonatal ethanol exposure on adult behavior." Michigan Chapter of the Society for Neuroscience, 2014
**trainee under direct supervision of A. Conti
23. J.L. Lowing**, L.L. Susick**, J.J.** Matchynski, B.L. Schneider**, **A.C. Conti**. "Increased chronic ethanol consumption following mild traumatic brain injury in the mouse." John D. Dingell VA Research Day, 2014.
**trainee under direct supervision of A. Conti
24. J.L. Lowing**, L.L. Susick**, J.J.** Matchynski, B.L. Schneider**, **A.C. Conti**. "Mild Experimental TBI increases ethanol consumption in the delayed post-TBI period." Michigan Chapter of the Society for Neuroscience, 2014.
**trainee under direct supervision of A. Conti
25. J.J. Matchynski**, Susick L.L**, R.J. Kohler, B.S. Schneider**, S.A. Perrine, **A.C. Conti**. "Ethanol sensitization is decreased in a mouse model of posttraumatic stress disorder." John D. Dingell VA Research Day, 2014
**trainee under direct supervision of A. Conti
26. J.J. Matchynski**, Susick L.L**, R.J. Kohler, B.S. Schneider**, S.A. Perrine, **A.C. Conti**. "Ethanol-induced behavioral sensitization is decreased in a mouse model of posttraumatic stress disorder." Michigan Chapter of the Society for Neuroscience, 2014
**trainee under direct supervision of A. Conti
27. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, R. Raghupathi, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013
**trainee under direct supervision of A. Conti
*one of 3 abstracts selected for oral presentation from 37 total abstracts
28. L.L. Susick**, J.L. Lowing**, K.E. Bosse**, A.C. Chrumka**, **A.C. Conti**. Striatal-dependent

Developmental Behaviors are not Affected by Neonatal Ethanol Exposure.” Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013

**trainee under direct supervision of A. Conti

29. L.L. Susick**, J.L. Lowing**, S.M. Hool**, **A.C. Conti**. “Effects of Neonatal Ethanol Exposure on BDNF and TRKB Protein Expression in Wild Type and Adenylyl Cyclase 1/8 Knockout Mice.” Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013

**trainee under direct supervision of A. Conti

*selected as best pre-clinical presentation- \$500 award

30. K.M. Desai, F. Ghoddoussi, A.T. Eapen**, K.E. Bosse**, **A.C. Conti**, S.A. Perrine. “Cocaine-induced behavioral sensitization is associated with increased striatal neuroactivity as measured by Manganese Enhanced Magnetic Resonance Imaging (MEMRI) in freely moving rats.” Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013

**trainee under direct supervision of A. Conti

*one of 3 abstracts selected for oral presentation from 37 total abstracts

31. B.L. Schneider**, E. Henson**, L. Susick**, J. Lowing**, **A.C. Conti**. “Effects of Non-contusive Traumatic Brain Injury on Dendritic Arborization of Medium Spiny Neurons.” Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013

**trainee under direct supervision of A. Conti

32. A.T. Eapen**, K.E. Bosse**, F. Ghoddoussi, K. Desai, B.A. Berkowitz, S.A. Perrine, **A.C. Conti**. “Adenylyl Cyclases 1 and 8 contribute to neuronal Ca²⁺ channel activity.” WSU Undergraduate Research Conference, 2013

**trainee under direct supervision of A. Conti

33. A. Harutyunyan, **A.C. Conti**, S.A. Perrine. “Traumatic stress exposure does not affect behavioral sensitization to morphine in mice.” WSU Undergraduate Research Conference, 2013

34. W.D. Carr, A.L. Eagle, **A.C. Conti**, S.A. Perrine. “Monoamine analysis of mouse brains following traumatic stress exposure and ethanol drinking.” WSU 2nd Annual Joint Mini Symposium, 2013

35. W.D. Carr, A.L. Eagle, **A.C. Conti**, S.A. Perrine. “Monoamine analysis of mouse brains following traumatic stress exposure and ethanol drinking.” Louis Stokes Alliance for Minority Participation, 2013

*selected for Best Presentation award

36. A.T. Eapen**, K.E. Bosse**, F. Ghoddoussi, K. Desai, B.A. Berkowitz, S.A. Perrine, **A.C. Conti**. “Adenylyl Cyclases 1 and 8 contribute to neuronal Ca²⁺ channel activity.” WSU 2nd Annual Joint Mini Symposium, 2013

**trainee under direct supervision of A. Conti

37. W.D. Carr, A.L. Eagle, **A.C. Conti**, S.A. Perrine. “Monoamine analysis of mouse brains following traumatic stress exposure and ethanol drinking.” Annual Biomedical Research Conference for Minority Students, 2013

38. B.L. Schneider**, S.A. Perrine, **A.C. Conti**. “Effects of mouse single prolonged stress (mSPS), as a model of posttraumatic stress disorder (PTSD), on extinction and reinstatement of the conditioned fear response.” Graduate Student Research Day, 2013

**trainee under direct supervision of A. Conti

39. L.L. Susick**, J.L. Lowing**, K.E. Bosse**, A.C. Chrumka**, **A.C. Conti**. "Neonatal ethanol exposure does not impair striatal dependent developmental behaviors in wild type or adenylyl cyclase knockout mice." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
40. L.L. Susick**, J.L. Lowing**, S.M. Hool**, **A.C. Conti**. "Effects of neonatal ethanol exposure on BDNF and trkB protein expression in wild type and adenylyl cyclase 1/8 knockout mice." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
41. B.L. Schneider**, E.L. Henson**, L.L. Susick**, J.L. Lowing**, **A.C. Conti**. "Effects of non-contusive TBI severity on dendritic morphology of medium spiny neurons." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
42. K.E. Bosse**, J.L. Lowing**, L.L. Susick**, S.A. Perrine, T.A. Mathews, **A.C. Conti**. "Deficits in behavioral sensitization and dopaminergic responses to methamphetamine in adenylyl cyclase 1/8 knockout mice." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
43. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, R. Raghupathi, **A.C. Conti**. "Striatal disruption following traumatic brain injury is accompanied by increased ethanol-induced sedation in mice." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
44. J.P. Caruso**, L.L. Susick**, J.L. Lowing**, **A.C. Conti**. "Effects of traumatic brain injury and ethanol exposure on synapsin phosphorylation in the striatum." Michigan Chapter of the Society for Neuroscience, 2013
**trainee under direct supervision of A. Conti
45. K.M. Desai, F. Ghoddoussi, R.J. Kohler, A.T. Eapen**, K.E. Bosse**, **A.C. Conti**, B.A. Berkowitz, S.A. Perrine. "Cocaine-induced behavioral sensitization is associated with increased striatal neuroactivity as measured by Manganese Enhanced Magnetic Resonance Imaging (MEMRI) in freely moving rats." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2013
**trainee under direct supervision of A. Conti
46. J.L. Lowing**, L.L. Susick**, A.L. Eagle, M.P. Galloway, S.A. Perrine, **A.C. Conti**. "Adenylyl cyclases 1/8 are required for full expression of METH-induced behavioral sensitization." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2012
**trainee under direct supervision of A. Conti
47. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Neonatal Alcohol Exposure in Mice Alters Dendritic Morphology in the Caudate Putamen Independently of Adenylyl Cyclases 1/8 Function." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2012
**trainee under direct supervision of A. Conti
48. K. Mulo, A.L. Eagle, **A.C. Conti**, S.A. Perrine. "Development of a mouse model of posttraumatic stress disorder: Differences in murine species reactivity to trauma-induced stress." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2012
49. N. Sawaf, F. Ghoddoussi, J. Lowing**, L. Susick**, **A.C. Conti**, M.P. Galloway. "Acute Neurochemical Response to the μ -Opioid Agonist Fentanyl in the Rostral Medial Striatum of Mice Lacking Adenylyl

Cyclase Isoforms 1 and 8." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2012
**trainee under direct supervision of A. Conti

50. F. Ghoddoussi, N. Sawaf, L. Susick**, J. Lowing**, A.M. Provenzano**, **A.C. Conti**, M.P. Galloway. "1H-MRS analysis of neurochemical profiles after acute ethanol in adult mice lacking adenylate cyclase isoforms 1 and 8." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2012
**trainee under direct supervision of A. Conti
51. J.L. Lowing**, L.L. Susick**, A.L. Eagle, M.P. Galloway, S.A. Perrine, **A.C. Conti**. "Adenylyl cyclases 1/8 are required for full expression of METH-induced behavioral sensitization." Michigan Chapter of the Society for Neuroscience, 2012
**trainee under direct supervision of A. Conti
52. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Neonatal Alcohol Exposure in Mice Alters Dendritic Morphology in the Caudate Putamen Independently of Adenylyl Cyclases 1/8 Function." Michigan Chapter of the Society for Neuroscience, 2012
**trainee under direct supervision of A. Conti
53. J.L. Lowing**, L.L. Susick**, A.L. Eagle, M.P. Galloway, S.A. Perrine, **A.C. Conti**. "Adenylyl cyclases 1/8 are required for full expression of METH-induced behavioral sensitization." John D. Dingell VA Research Day, 2012
**trainee under direct supervision of A. Conti
54. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Neonatal Alcohol Exposure in Mice Alters Dendritic Morphology in the Caudate Putamen Independently of Adenylyl Cyclases 1/8 Function." John D. Dingell VA Research Day, 2012
**trainee under direct supervision of A. Conti
55. D. Briggs**, K. Bosse**, D. Kuhn, **A.C. Conti** "Investigating the Effects of Methamphetamine on the Striatal Dopaminergic System in Adenylyl Cyclase 1/8-deficient Mice." Graduate Student Research Day, 2012
**trainee under direct supervision of A. Conti
56. J.L. Lowing**, A.I. Chrumka**, L.L. Susick**, E.L. Henson**, R. Raghupathi, **A.C. Conti**. "Effects of Acute Ethanol Treatment on Synapsin Phosphorylation in the Delayed Post-Traumatic Period." Graduate Student Research Day, 2012
**trainee under direct supervision of A. Conti
*One of 18 abstracts selected for oral presentation from 83 total abstracts
57. K. Mulo, A.L. Eagle, **A.C. Conti**, and S.A. Perrine. "Development of a Mouse Model of PTSD: Differences in Murine Species Reactivity to Trauma-induced Stress." Graduate Student Research Day, 2012
58. B. Schneider**, E. Henson**, L. Susick**, J. Lowing**, **A.C. Conti**. "Effects of Non-contusive Traumatic Brain Injury on Dendritic Arborization of Medium Spiny Neurons." Graduate Student Research Day, 2012
**trainee under direct supervision of A. Conti
59. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, R. Raghupathi, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." Program in Traumatic Brain Injury Research Symposium, 2012
**trainee under direct supervision of A. Conti

60. B.L. Schneider**, E. Henson**, L. Susick**, J. Lowing**, **A.C. Conti**. "Effects of Non-contusive Traumatic Brain Injury on Dendritic Arborization of Medium Spiny Neurons." Program in Traumatic Brain Injury Research Symposium, 2012
**trainee under direct supervision of A. Conti
61. S.E. Bowen, J.L. Lowing**, L.L. Susick**, **A.C. Conti**. "Differential Effects of Adenylyl Cyclase 1 and 8 Activity on Toluene and Ethanol Action." Annual University of Michigan Substance Abuse Research Center (UMSARC) Member Symposium, 2011
**trainee under direct supervision of A. Conti
62. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, R. Raghupathi, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." Annual University of Michigan Substance Abuse Research Center (UMSARC) Member Symposium, 2011
**trainee under direct supervision of A. Conti
63. L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**. "Neonatal Alcohol Exposure in Mice Alters Dendritic Morphology in the Caudate Putamen." Annual University of Michigan Substance Abuse Research Center (UMSARC) Member Symposium, 2011
**trainee under direct supervision of A. Conti
64. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." John D. Dingell VA Research Day, 2011
**trainee under direct supervision of A. Conti
65. N. Sawaf, F. Ghoddoussi, L.L. Susick**, J.L. Lowing**, A.M. Provenzano**, **A.C. Conti**, M.P. Galloway. "Genetic Deletion of Adenylyl Cyclase Isoforms 1 and 8 Increases Inositol and Glycerophosphorylcholine in Murine Anterior Cingulate Cortex." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2011
**trainee under direct supervision of A. Conti
66. J.L. Lowing**, L.L. Susick**, A.M. Provenzano**, **A.C. Conti**. "Traumatic Brain Injury Increases Ethanol Sensitivity in Mice." Michigan Chapter of the Society for Neuroscience, 2011
**trainee under direct supervision of A. Conti
67. L.L. Susick**, J.L. Lowing**, **A.C. Conti**, S.E. Bowen. "Differential Effects of Adenylyl Cyclase 1 and 8 Activity on Toluene and Ethanol Action." Michigan Chapter of the Society for Neuroscience, 2011
**trainee under direct supervision of A. Conti
68. **A.C. Conti**, C. Young, J.W. Olney, L.J. Muglia. "Adenylyl cyclases types 1 and 8 promote pro-survival pathways after ethanol exposure in the neonatal brain." Dept. of Psychiatry and Behavioral Neurosciences Research Day, 2010
69. **A.C. Conti**, C. Young, J.W. Olney, L.J. Muglia. "Adenylyl cyclases types 1 and 8 promote pro-survival pathways after ethanol exposure in the neonatal brain." Annual University of Michigan Substance Abuse Research Center (UMSARC) Member Symposium, 2010

PRESENTATIONS

Podium Presentations

June 2014 Research Society on Alcoholism Annual Symposium

Bellevue, WA

Platform Presentation “Effects of Experimental Traumatic Brain Injury on Ethanol Consumption, Sensitivity and Synaptic Plasticity”

**1 of 4 speakers in scientific program entitled, “Traumatic brain injury and unhealthy alcohol use: basic science, clinical epidemiology and intervention development and implementation”*

Program proposal was competitively selected as 1 of 66 from a total pool of 114

Invited Seminars, Lectures and Grand Rounds

National

- April 2014 Department of Pharmacology Seminar Series
University of Toledo (Toledo, OH)
“The Influence of Ethanol on Synaptic Regulation”
- Oct. 2013 Department of Neurobiology and Anatomy Seminar Series
Drexel University College of Medicine (Philadelphia, PA)
“Synaptic Regulation of Ethanol Sensitivity”

Local/Regional

- March 2013 Good Morning Detroit
Detroit R&D (Detroit, MI)
“Impact of acute alcohol exposure on dendritic morphology in a mouse model of Fetal Alcohol Syndrome”
- April 2010 VA Seminars in Medicine
John D. Dingell VA Medical Center (Detroit, MI)
“Adenylyl Cyclases 1 and 8 in the Neonatal Response to Alcohol”
- Dec. 2011 VA Seminars in Medicine
John D. Dingell VA Medical Center (Detroit, MI)
“Effects of Acute Alcohol Exposure on Dendritic Morphology in a Model of Fetal Alcohol Syndrome”

Wayne State University

- Feb. 2016 Department of Psychology Brown Bag Seminar Series
Wayne State University (Detroit, MI)
“Effects of Experimental Traumatic Brain Injury on Ethanol Consumption, Sensitivity and Synaptic Plasticity”
- April 2014 Department of Anatomy and Cell Biology Seminar Series
Wayne State University School of Medicine (Detroit, MI)
“TBI-induced Synaptic Plasticity: Effect on Ethanol Sensitivity”
- Aug. 2013 Research Grand Rounds
Department of Neurosurgery
Wayne State University School of Medicine (Detroit, MI)
“Alterations in Ethanol Sensitivity and Consumption Following Non-Contusive TBI”

- Feb. 2013 Department of Anatomy and Cell Biology Seminar Series
Wayne State University School of Medicine (Detroit, MI)
“Impact of acute alcohol exposure on dendritic morphology in a mouse model of Fetal Alcohol Syndrome”
- Nov. 2012 Pharmaceutical Sciences Seminar Series
Eugene Applebaum College of Pharmacy and Health Sciences
Wayne State University (Detroit, MI)
“Loss of Dendritic Complexity following Acute Alcohol Exposure in a Model of Fetal Alcohol Syndrome”
- Aug. 2012 Program in Traumatic Brain Injury Research Seminar Series
Wayne State University School of Medicine (Detroit, MI)
“Ethanol Sensitivity following Experimental Traumatic Brain Injury”
- June 2011 Department of Anatomy and Cell Biology Seminar Series
Wayne State University School of Medicine (Detroit, MI)
“Adenylyl Cyclases 1 and 8 as Mediators of the Neuronal Response to Alcohol”
- Oct. 2010 Translational Neuroscience Program Seminar Series
Department of Psychiatry
Wayne State University School of Medicine (Detroit, MI)
“Adenylyl Cyclases 1 and 8 as Mediators of the Neuronal Response to Alcohol”
- June 2010 Research Grand Rounds
Department of Neurosurgery
Wayne State University School of Medicine (Detroit, MI)
“Adenylyl Cyclases 1 and 8 in the Neonatal Response to Alcohol”