

CURRICULUM VITAE

NAME: **Stacy Sell Foulks, Ph.D.**

PRESENT POSITIONS Adjunct Professor, College of the Mainland
Co-Director, Neuroscience Summer Undergraduate Program, UTMB

EDUCATION

12/2000 Ph.D., Neuroscience, University of Texas Medical Branch, Galveston
03/1986 B.S., Zoology, University of California, Davis

PROFESSIONAL AND TEACHING EXPERIENCE

1/2010 – present **Co-Director, Neuroscience Summer Undergraduate Research Program**
Graduate School of Biomedical Sciences
University of Texas Medical Branch, Galveston, Texas

9/2020 – 12/2020 **Instructor**
Department of Anesthesiology
University of Texas Medical Branch, Galveston, Texas

9/2009 – 08/2020 **Assistant Professor**
Department of Anesthesiology
University of Texas Medical Branch, Galveston, Texas

1/2013 – 1/2019 **Co-Director, Histopathology and Behavior Core**
Moody Project for Translational Traumatic Brain Injury Research
Department of Anesthesiology
University of Texas Medical Branch, Galveston, Texas

9/2007 – 9/2009 **Instructor**
Department of Anesthesiology
University of Texas Medical Branch, Galveston, Texas

9/2006 – 9/2007 **Senior Post-doctoral Fellow**
Department of Anesthesiology, University of Texas Medical Branch, Galveston,
Refining and optimizing existing behavioral assessments of rats following
traumatic brain injury. Developing new behavioral paradigms and building
independent research into the behavioral assessment of recovery following
traumatic brain injury. Studying the neuroprotective mechanisms of ovarian
hormones with a focus on developing potential treatments for TBI.

3/2005 – 9/2006 **Interim Director**
Core for Behavioral Neuroscience, Center for Addiction Research
University of Texas Medical Branch, Galveston, Texas

Designing the Behavioral Core Research Facility for campus-wide use and implementing behavioral paradigms to be accessible to users of the facility. Exploring potential interactions between ovarian hormones and psychoactive compounds using behavioral and molecular tools

6/2002 – 3/2005

Post-doctoral Fellow

University of Texas Medical Branch, Galveston, Texas
Department of Pharmacology & Toxicology
Employing molecular and behavioral techniques to explore how ovarian hormones interact with neurotransmitters in the brain thereby influencing brain disorders such as depression and drug abuse

10/2000 – 6/2002

Post-doctoral Fellow

University of Texas Health Science Center, San Antonio, Texas
Department of Pharmacology
Studying neuropharmacology of opiate withdrawal using behavioral measures and drug-discrimination techniques in non-human primates

9/1997 – 10/2000

Dissertation Research

University of Texas Medical Branch, Galveston, Texas
Department of Pharmacology & Toxicology
Evaluating the role of ovarian steroid hormones in the response to cocaine using behavioral measures and antisense oligonucleotides

9/1995 – 9/1997

Graduate Research Assistant

University of Texas Medical Branch, Galveston, Texas
Neuroscience Graduate Program
Functional magnetic resonance imaging in anesthetized non-human primates
Gender differences in behavioral sensitization to cocaine
In Vitro Electrophysiology of the dorsal lateral septum
fMRI measurable responses to cocaine in anesthetized rats

3/1989 – 9/1997

Research Associate

University of Texas Medical Branch, Galveston, Texas
Marine Biomedical Institute
F. Marie Hall Magnetic Resonance Laboratory
Managing experiments and data for a multi-user facility
Designing and executing *in vivo* MRI experimental protocols
Preparing a variety of animal models including anesthetic and surgical techniques in rats and monkeys

11/1987 – 3/1989

Research Assistant

University of Texas Health Science Center, Houston, Texas
Laboratory for Neuroendocrinology
Managing primate colony consisting of over 50 rhesus monkeys
Surgically preparing monkeys for electrophysiological studies
Executing experiments of neuroendocrine regulation of the reproductive system

6/1986 – 7/1987

Clinical Research Associate

Matrix Pharmaceuticals, Inc., Menlo Park, California
Organizing veterinary clinical research of drug delivery systems

RESEARCH ACTIVITIES

AREA OF RESEARCH

I have a long-standing interest in studying how the brain spontaneously recovers or responds to treatment after injury using behavioral and molecular measures, as well as cellular, neurological, cognitive and emotional measures of brain pathology and function. Further, I am interested in the connection between neuroanatomical structures and behavior and how damage to the brain results in specific behavioral deficits. I am interested in the relationship between brain injury, mood disorders, substance abuse, and neurodegenerative diseases such as Alzheimer's disease. More recently, I became interested in the role of microRNAs and inflammation with or without injury in the progression of depression, neurodegenerative disease and addiction. The study of microarrays of miRNAs in blood and tissue has led to a new focus of my research toward the use of miRNA blood profiles as a diagnostic tool to be applied to many different diseases.

GRANT SUPPORT:

- 10/01/19 – 12/31/20 Department of Defense (DoD) DM180663 M. Micci (PI)
Title: Nano-Pulsed Laser Optoacoustic Therapy for Pre- and Post-Treatment of Traumatic Brain Injury”
Role: Co-Investigator
The goal of this project is to evaluate nano-pulsed laser optoacoustic technology as a possible therapy for TBI.
- 01/01/17 – 12/31/20 NIH/NINDS R25NS100134-03 G. Taglialatela (PI)
Title: Summer Research Experiences in Neurological Dysfunction
Role: Co-Investigator
The goal of this project is to provide mentorship and guidance in research experiences for undergraduate students.
- 01/01/14 – 12/31/18 The Moody Project; D.S. Prough (PI)
The Moody Foundation
Role: Co-I and Co-Director of Histopathological and Behavioral Outcomes Core
- 07/01/09 – 06/30/11 Estradiol Intervention Following Traumatic Brain Injury; S.L. Sell (PI)
John Sealy Memorial Endowment Fund
Bridging Grant Program
\$49,611 direct costs
- 01/01/05 – 12/31/06 Estrogen Modulation of the Response to SSRIs in Female Rats; S.L. Sell (PI)
National Association for Research on Schizophrenia and Depression (NARSAD)
Young Investigator Award – Individual
\$60,000 direct costs
- 06/01/02 – 05/31/05 NIH/NIDA5 T32 DA007287-08; K.A. Cunningham (Director-PI)
National Research Service Award – Training
Neural and pharmacological mechanisms of abused drugs
Role: Postdoctoral trainee
- 06/12/98 – 06/11/01 NIH/NIDA5 F31 DA05853-02; S.L. Sell (PI)
National Research Service Award - Individual
Female steroid receptor influence on cocaine-related behavior
Role: Principal Investigator

COMMITTEE RESPONSIBILITIES:

UTMB

9/2009 – 2/2015 Committee for Postdoctoral Affairs

Departmental

5/2016 – 5/2018 Moody Project Journal Club, Co-Director

9/2006 – 9/2008 Traumatic Brain Injury Journal Club, Director.

9/2006 – 9/2008 Charles R. Allen Research Laboratories Meeting Presentation, Director

Scientific Sessions Organized

2017 – 2021 Neuroscience Summer Undergraduate Program Seminar Series

2017 – 2021 Neuroscience Summer Undergraduate Program Poster Session

2010 – 2016 SURP Seminar Series

2010 – 2016 SURP Poster Session

Scientific Sessions Chaired / Discussion Leader

2008 NARSAD Session Chair at National Mental Health Symposium

TEACHING RESPONSIBILITIES:

Teaching at UTMB School of Medicine (SOM)

9/2019 PBL Facilitator for Renal, Fluids & Electrolytes, Medical School Year 2

3/2009 - 2019 PBL Facilitator for Neuroscience and Human Behavior course,
Medical School Year 1

1/2016 PBL Co-Facilitator, Essentials of Endocrinology and Reproduction,
Medical School Year 2

1/2015 PBL Facilitator (alternate) Essentials of Endocrinology and Reproduction,
Medical School Year 2

5/2008 - 2015 PBL Facilitator for Great Syndromes Course, Medical School Year 2

9/2007 – 2015 Interview applicants for medical school

5/2004 Instructor, University of Texas Medical Branch, Galveston
Department of Psychiatry, Psychopharmacology of Drug Abuse Course
Medical Post-Graduate Year 2

9/1997-12/1997 Teaching Assistant, University of Texas Medical Branch, Galveston
Dept. of Anatomy and Neurosciences, Medical Neuroscience Laboratory

Teaching at UTMB Graduate School (GSBS)

9/2017 – 2020 Co-Director of Neuroscience Undergraduate Research Program (NSURP)

2/2010 – 2016 Co-Director of Summer Undergraduate Research Program (SURP)

9/2010 – 9/2012 Small Group Instructor, How to Read a Scientific Paper (GSBS)

4/2008 – 2014 Faculty Judge for National Student Research Forum

Teaching at San Jacinto Community College

9/2006-12/2006 Adjunct Professor, San Jacinto Community College, Houston, Texas, Department of Biology, Biology 2

MEMBERSHIPS IN SCIENTIFIC SOCIETIES/PROFESSIONAL ORGANIZATIONS:

2007 – 2020 The National Neurotrauma Society
2001 – 2020 The College on Problems of Drug Dependence
1995 – 2020 The Society for Neuroscience
2006 – 2009 The American Society for Pharmacology and Experimental Therapeutics

HONORS AND AWARDS:

2004 NARSAD Young Investigator Award
2003 Center for Interdisciplinary Research in Women's Health Fellow
2001 Dean's Award for Academic Excellence
2000 Stephen C. Silverthorne Memorial Award
1999 Elias Hochman Research Award
1998-2000 NIDA Individual Research Service Award (NRSA)
1998 NIDA Director's Travel Award to attend the CPDD 60th Annual Meeting
1998 WIN Travel Award to the Society for Neuroscience 28th Annual Meeting
1998 NASA/Texas Space Grant Consortium Winter Scholar
1997 FASEB Summer Conference on Drug Abuse Travel Award
1997 Academic Distinction on Doctoral Qualifying Examination

ADDITIONAL INFORMATION:

Invited Seminars:

2011-2020 Summer Undergraduate Research Program Lecture Series, University of Texas Medical Branch
2014 Neurotherapeutics Workgroup, Center for Addiction Research, University of Texas Medical Branch, Galveston, TX
2011 Prep Student Research Education Seminar, University of Texas Medical Branch
2010 Department of Anesthesiology Research Seminar Series, University of Texas Medical Branch
2005 Center for Addiction Research, University of Texas Medical Branch
2003 Center for Interdisciplinary Research in Women's Health, The University of Texas Medical Branch

Invited Lectures – off campus:

2010 National Alliance for Research on Schizophrenia and Depression (NARSAD), Healthy Minds Across America Symposium at the University of Texas Health Science Center in Houston, June 26, 2010.
2003 Department of Biology, Prairie View A&M University, Prairie View, TX

Journal Reviewer:

2019, 2020 Current Therapeutic Research
2018, 2016, 2013 Brain Research
2017 Brain and Behavior

2017	Journal of Visualized Experiments
2014	Brain Injury
2012	Journal of Neurotrauma
2012	African Journal of Biochemistry Research
2011	Physiology & Behavior
2011	Elsevier book proposal: Pharmacology of Novel Psychoactive Substances
2010	Pharmacology, Biochemistry and Behavior
2010	Psychopharmacology
2009	Brain Research Bulletin
2008	Behavioral Brain research
2005, 2002	Journal of Neuroscience (Ad-hoc)
2005	46 th Annual National Student Research Forum (Judge)
2003	Center for Interdisciplinary Research in Women's Health Seed Grant Reviewer
2001	Neuroscience Letters
1999	Pharmacology Biochemistry & Behavior (Ad-hoc)

Grant Reviewer:

2016	Jeane B. Kempner Fellowship
2003	Center for Interdisciplinary Research in Women's Health Seed Grant, Department of Obstetrics and Gynecology, University of Texas Medical Branch

PUBLISHED:

ARTICLES IN PEER-REVIEWED JOURNALS:

1. **Sell SL**, Widen SG, Prough DS, Hellmich HL. Principal component analysis of blood microRNA datasets facilitates diagnosis of diverse diseases. *PLoS One*. **2020**;15(6):e0234185. doi: 10.1371/journal.pone.0234185. eCollection 2020. PubMed PMID: 32502186; PubMed Central PMCID: PMC7274418.
2. Weisz HA, Kennedy D, Widen S, Spratt H, **Sell SL**, Bailey C, Sheffield-Moore M, DeWitt DS, Prough DS, Levin H, Robertson C, Hellmich HL. MicroRNA sequencing of rat hippocampus and human biofluids identifies acute, chronic, focal and diffuse traumatic brain injury. *Scientific Reports*. **2020** Feb 24;10(1):3341. doi: 10.1038/s41598-020-60133-z.PMID:32094409
3. Mocciano E, Grant A, Esenaliev RO, Petrov IY, Petrov Y, **Sell SL**, Hausser NL, Guptarak J, Bishop E, Parsley MA, Bolding IJ, Johnson KM, Lidstone M, Prough DS, Micci MA. Non-Invasive Transcranial Nano-Pulsed Laser Therapy Ameliorates Cognitive Function and Prevents Aberrant Migration of Neural Progenitor Cells in the Hippocampus of Rats Subjected to Traumatic Brain Injury. *J Neurotrauma*. **2020** Jan 31. doi: 10.1089/neu.2019.6534. [Epub ahead of print] PMID:31856661
4. **Sell SL**, Boone DR, Weisz HA, Cardenas C, Willey HE, Bolding IJ, Micci MA, Falduto MT, Torres KEO, DeWitt DS, Prough DS, Hellmich HL. MicroRNA profiling identifies a novel compound with antidepressant properties. *PLoS One*. **2019**;14(8):e0221163. doi: 10.1371/journal.pone.0221163. eCollection 2019. PubMed PMID: 31442236; PubMed Central PMCID: PMC6707633.
5. Esenaliev RO, Petrov IY, Petrov Y, Guptarak J, Boone DR, Weisz H, Parsley MA, **Sell SL**, Hellmich H, Ford JM, Pogue C, DeWitt D, Prough DS, Micci MA; Nano Pulsed Laser Therapy Is Neuroprotective In A Rat Model Of Blast-Induced Neurotrauma, *J Neurotrauma*. **2018** Apr 30. doi: 10.1089/neu.2017.5249. PMID:29562823

6. Hausser N, Johnson K, Parsley MA, Guptarak J, Spratt H, **Sell SL**. Detecting Behavioral Deficits in Rats After Traumatic Brain Injury. *J Vis Exp*, **2018** Jan 30; (131). doi: 10.3791/56044. PMID: 29443022
7. Boone DR, Weisz HA, **Sell SL**, Hellmich HL. Laser Capture Microdissection in Traumatic Brain Injury Research: Obtaining Hippocampal Subregions and Pools of Injured Neurons for Genomic Analyses. *Methods Mol Biol*. **2018**;1723:235-245. doi: 10.1007/978-1-4939-7558-7_13.
8. Boone DR, Leek JM, Falduto MT, Torres KEO, **Sell SL**, Parsley MA, Cowart JC, Uchida T, Micci MA, DeWitt DS, Prough DS, Hellmich HL. Effects of AAV-mediated knockdown of nNOS and GPx-1 gene expression in rat hippocampus after traumatic brain injury. *PLoS One*. 2017 Oct 10;12(10):e0185943. doi: 10.1371/journal.pone.0185943. eCollection 2017. PMID: 29016640
9. Weisz HA, Boone DR, **Sell SL**, Hellmich HL, Stereotactic Atlas-Guided Laser Capture Microdissection of Brain Regions Affected by Traumatic Injury. *J Vis Exp* 2017 Sep 11;(127) doi:10.279/56134 PMID: 28930995
10. **Sell SL**, Johnson K, DeWitt DS, Prough DS, Persistent Behavioral Deficits in Rats after Parasagittal Fluid-Perfusion Injury. *J Neurotrauma*, 2017 Mar 1;34(5): 1086-1096 doi: 10.1089/neu.2016.4616. Epub 2016 Oct 18. PMID: 27650266
11. Boone DR, **Sell SL**, Hellmich HL, Laser capture microdissection of enriched populations of neurons or single neurons for gene expression analysis after traumatic brain injury. *J Vis Exp*. 2013 Apr 10;(74). doi: 10.3791/50308.
12. Hellmich HL, Rojo DR, Micci MA, **Sell SL**, Boone DR, Crookshanks JM, DeWitt DS, Masel BE, Prough DS. Pathway analysis reveals common pro-survival mechanisms of metyrapone and carbenoxolone after traumatic brain injury. *PLoS One* 8(1):e53230. doi: 10.1371/journal.pone.0053230. Epub 2013 Jan 9.
13. Boone DR, **Sell SL**, Micci MA, Crookshanks JM, Parsley MA, Uchida T, Prough DS, DeWitt DS, Hellmich HL. Traumatic Brain Injury-induced Dysregulation of the Circadian Clock. *PLoS One*. 7(10):e46204, 2012. PMID:23056261.
14. Avila MA* **Sell, SL*(corresponding author)**, Hawkins BE, Hellmich, HL, Boone, DR, Crookshanks, JM, Prough, DS, DeWitt, DS. Cerebrovascular Connexin Expression: Effects of Traumatic Brain Injury. *J Neurotrauma*, 28(9):1803-11. 2011.
15. Avila MA*, **Sell SL*(corresponding author)**, Kadoi Y, Prough DS, Hellmich HL, Velasco M, Dewitt DS. L-Arginine decreases fluid-percussion injury-induced neuronal nitrotyrosine immunoreactivity in rats. *J Cereb Blood Flow Metab*, 28(10):1733-41, 2008 Oct
16. **Sell SL**. Craft RM. Seitz PK. Stutz SJ. Cunningham KA. Thomas ML. Estradiol-sertraline synergy in ovariectomized rats. *Psychoneuroendocrinology*. 33(8):1051-60, 2008 Sep.
17. **Sell, S.L.**, Avila, M.A., Yu, G., Vergara, L., Prough, D.S., Capra, B., Eidson, K., DeWitt, D.S., Hypertonic resuscitation improves neuronal and behavioral outcomes after traumatic brain injury plus hemorrhage, *Anesthesiology*, 2008 May;108(5):873-81.

18. **Sell, S.L.**, Dillon, A.M., Cunningham, K.A., and Thomas, M.L., Estrous cycle influence on individual differences in the response to novelty and cocaine in female rats, *Behavioural Brain Research*. 161: 69-74, 2005.
19. **Sell, S.L.**, McMahon, L.R., Koek, W., and France, C.P., Monoaminergic drugs and directly observable signs of LAAM withdrawal in rhesus monkeys, *Behavioural Pharmacology*, 16(1):53-58, February 2005.
20. McMahon, L.R., **Sell, S.L.** and France, C.P. Cocaine and other indirect-acting monoamine agonists differentially attenuate a naltrexone discriminative stimulus in morphine-treated rhesus monkeys, *J Pharmacol Exp Ther*, Epub 2003 Oct 20.
21. **Sell, S.L.**, McMahon, L.R. and France, C.P., Relative efficacy of buprenorphine, nalbuphine and morphine in opioid-treated rhesus monkeys discriminating naltrexone, *J Pharmacol Exp Ther*, 2003 Sep;306(3):1167-1173. Epub 2003 May 23.
22. **Sell, S.L.** and France, C.P., Cocaine and amphetamine attenuate the discriminative stimulus effects of naltrexone in opioid-dependent rhesus monkeys, *J Pharmacol Exp Ther*. Jun 301(3):1103-1110, 2002.
23. **Sell, S.L.**, Thomas, M.L., Cunningham, K.A., Influence of Sex, Estrous Cycle and Estradiol on Behavioral Sensitization to Cocaine in Female Rats, *Drug Alcohol Depend*. Aug 67(3):281-290, 2002.
24. **Sell, S.L.**, Scalzitti, J.M., Thomas, M.L., Cunningham, K.A., Influence of Ovarian Hormones and Estrous Cycle on the Behavioral Response to Cocaine in Female Rats, *J Pharmacol Exp Ther*. Jun 293(3):879-86, 2000.
25. Quast, M.J., Wei, J., Huang, N.C., Brunder, D.G., **Sell, S.L.**, Gonzalez, J.M., Hillman, G.R., Kent, T.A., Perfusion deficit parallels exacerbation of cerebral ischemia/reperfusion injury in hyperglycemic rats, *J. Cereb. Blood Flow and Metab*. 17(5):553-559, 1997.

BOOK CHAPTERS:

1. Weisz HA, Boone DR, **Sell SL**, Hellmich HL, In: *Pre-Clinical and Clinical Methods in Brain Trauma Research, Neuromethods* 139, Eds. Dr. Amit K Strivastava and Charles S. Cox, Jr., Laser Capture Microdissection of Single Cells, Cell Populations, and Brain Regions Affected by Traumatic Brain Injury, 2018
2. Boone DR, Weisz HA, **Sell SL**, Hellmich HL. In: *Laser Capture Microdissection: Methods and Protocols. 3rd Edition*. Methods in Molecular Biology. Eds. Dr. Graeme Murray. Laser Capture Microdissection in Traumatic Brain Injury Research: Obtaining Hippocampal Subregions and Pools of Injured Neurons for Genomic Analyses, 2017.

SELECTED ABSTRACTS:

1. Gorman S, Hauser N, Toigo E, Anderson C, Prough DS, **Sell SL**, Improving Rat Behavioral Outcome Assessment in TBI Research. *Mission Connect Annual Scientific Symposium*, December 2018.

2. Hausser N, Hipskind E, Zhihao Z, Parsley MA, DeWitt DS, **Sell SL**, Effects of Mild Blast Traumatic Brain Injury on Rat Behavior, *Mission Connect Annual Scientific Symposium*, December 2018.
3. **Sell, S.L.**, Boone, D., Weisz, H., Parsley, M.A., Prough, D.S., Hellmich, H.L., Identifying Novel Compounds to Treat MRAIN Injury and Depression by Genomic Profiling, *Society for Neuroscience*, 2018
4. Guptarak J, Grant AC, Parsley MA, Johnson K, Bolding I, DeWitt DS, Prough DS, **Sell SL**, Micci MA, Iron deposition and microglia activation in a rat model of chronic traumatic brain injury, *Society for Neuroscience*, 2018
5. Hausser, N., Esenaliev, R., Petrov I., Petrov P, Johnson, K, Parsley, MA, Bolding, IA., DeWitt DS, Prough, DS, Micci, MA, **Sell SL**. Use of Behavioral Measures to Assess the Therapeutic Value of Nano-Pulsed Laser Therapy after Fluid-Perfusion Injury. *Mission Connect Annual Scientific Symposium*, December 2017.
6. Johnson, K., Parsley, M.A., Bolding, I.J., Hawkins, B.E., Prough, D.S., DeWitt, D.S., **Sell, S.L.**, Detecting Subtle Cognitive Impairment in Rats After Moderate Fluid-Perfusion Injury, *Journal of Neurotrauma*, 35th Annual National Neurotrauma Society Symposium, PSB08-18, 2017.
7. Hausser, N., Esenaliev, R., Petrov I., Petrov P, Johnson, K, Parsley, MA, Bolding, IA., DeWitt DS, Prough, DS, Micci, MA, **Sell SL**. Use of Behavioral Measures to assess the Therapeutic Value of Nano-Pulsed Laser Therapy after Fluid-Perfusion Injury. *Journal of Neurotrauma*, 35th Annual National Neurotrauma Society Symposium. 2017
8. Guptarak, J, Johnson, K, Parsley, M.A., Bolding, I, DeWitt, D.S., Prough, D.S., **Sell, S.L.**, Behavior tests in rats six months after fluid percussion injury, *Journal of Neurotrauma*, 34th Annual National Neurotrauma Society Symposium, PSB-223, 2016.
9. Johnson, K., Parsley, M.A., Bolding, I., Prough, D.S., DeWitt, D.S., **Sell, S.L.**, Persistent Behavioral Deficits in Rats after Moderate Fluid-Perfusion Injury, *Journal of Neurotrauma*, 33rd Annual National Neurotrauma Society Symposium, C1-14, 2015.
10. Guptarak, J., Zeng Y.P., Micci, M.A., Hellmich, H.L., DeWitt, D.S., **Sell, S.L.** Acute effects of 17 β -estradiol on oxidative stress response proteins after TBI, *Journal of Neurotrauma*, 33rd Annual National Neurotrauma Society Symposium, A2-15, 2015.
11. Zeng, Y.P., **Sell, S.L.**, Prough, D.S., DeWitt, D.S. Protective effects of estrogen in vascular smooth muscle cells after rapid stretch injury, *Journal of Neurotrauma*, 33rd Annual National Neurotrauma Society Symposium, A1-09, 2015.
12. Guptarak, J., Esenaliev, R., Petrov, I., Petrov, Y., Boone, D., Weisz, H., Parsley, M.A., **Sell, S.L.**, Hellmich, H.L., Prough, D.S., Micci, M.A., Therapeutic Application of a Pulsed Laser System for Brain Trauma, *Journal of Neurotrauma*, 33rd Annual National Neurotrauma Society Symposium, D8-21, 2015

13. Guptarak, J., Zeng Y.P., Micci, M.A., Hellmich, H.L., DeWitt, D.S., **Sell, S.L.** Acute effects of 17 β -estradiol on oxidative stress response proteins after TBI, *Mission Connect* Annual Scientific Symposium, December 2014.
14. Zeng, Y.P., **Sell, S.L.**, Parsley, M., Prough, D.S., DeWitt, D.S. Progesterone Improves Dilator Responses in Middle Cerebral Arteries after Moderate Fluid Percussion Injury. *Mission Connect* Annual Scientific Symposium, December 2013.
15. Weisz, H., Boone, D., **Sell, S.**, Parsley, M., Bolding, I., DeWitt, D.S., Prough, D.S., Hellmich, H.L. Effects of Prophylactic Omega-3 Fatty Acid Treatment on TBI-Induced MicroRNA Expression. *Journal of Neurotrauma*, 32nd Annual National Neurotrauma Society Symposium, C2-20, 2014.
16. Ruppert, K.A., Parsley, M., Patrikeev, I., Motamedi, M., **Sell, S.L.**, Prough, D.S., DeWitt, D.S., Effects of Mild Blast-Induced Neurotrauma on Blood-Brain Barrier Permeability, *Journal of Neurotrauma*, 32nd Annual National Neurotrauma Society Symposium, D2-05, 2014.
17. Zeng, Y.P., **Sell, S.L.**, Parsley, M., Prough, D.S., DeWitt, D.S. Progesterone Improves Dilator Responses in Middle Cerebral Arteries after Moderate Fluid Percussion Injury. *Mission Connect* Annual Scientific Symposium, December 2013.
18. **Sell, S.L.**, Prough, D.S., DeWitt, D.S. Traumatic Brain Injury Alters Cocaine-Induced Hyperactivity. *Journal of Neurotrauma* 31st Annual National Neurotrauma Society Symposium, 2013. JOURNAL OF NEUROTRAUMA 30:A-1–A-183 (August 2013)
19. Zeng, Y.P., **Sell, S.L.**, Parsley, M.A., Prough, D.S., DeWitt, D.S. Progesterone Improves Dilator Responses in Middle Cerebral Arteries after Moderate Fluid-Percussion Injury *Journal of Neurotrauma* 31st Annual National Neurotrauma Society Symposium, 2013. JOURNAL OF NEUROTRAUMA 30:A-1–A-183 (August 2013)
20. **Sell, S.L.**, Leavitt S., Prough D.S., DeWitt, D.S. Time-Dependent Impact of Traumatic Brain Injury on the Behavioral Effects of Cocaine. College on Problems of Drug Dependence, 65th, Annual Scientific Meeting, 2013.
21. **Sell, S.L.**, Boone, D., Prough, D.S., DeWitt, D.S., Hellmich, H.L. Estradiol effects on oxidative stress response genes in the cerebral vasculature after traumatic brain injury. *Journal of Neurotrauma* 30th Annual National Neurotrauma Society Symposium, 2012.
22. **Sell, S.L.**, Paulucci-Holthausen, A., Leavitt, S., Prough, D.S., DeWitt, D.S., Estradiol effects on gap junction communication in the cerebral vasculature after traumatic brain injury, The Institute for Rehabilitation and Research (TIRR) Foundation, *Mission Connect* Annual Scientific Symposium, December 2011.
23. Leavitt, S., Rodriguez, U., Kennedy, D., **Sell, S.L.**, Prough, D.S., DeWitt, D.S. Mild TBI Increases Neuronal Injury after Hemorrhagic Hypotension. The Institute for Rehabilitation and Research (TIRR) Foundation, *Mission Connect* Annual Scientific Symposium, December 2011.

24. **Sell, S.L.**, Paulucci-Holthausen, A., Leavitt, S., Prough, D.S., DeWitt, D.S., Estradiol effects on gap junction communication in the cerebral vasculature after traumatic brain injury. *Journal of Neurotrauma* 29th Annual National Neurotrauma Society Symposium, 2011.
25. **Sell, S.L.**, Zeng, Y.P., Leavitt S., Prough D.S., DeWitt, D.S. Estradiol increases vascular reactivity following traumatic brain injury, *Journal of Neurotrauma* 28th Annual National Neurotrauma Society Symposium, 2010.
26. Zeng, Y.P., **Sell S.L.**, Prough, D.S., DeWitt D.S. Estradiol effects on intracellular calcium levels after mechanical stretch injury in cultured vascular smooth muscle cell *Journal of Neurotrauma* 28th Annual National Neurotrauma Society Symposium, 2010.
27. Boone, D.R., Parsley, M.A., Cowart, J.C., Leavitt, S.L., Kahrig K.M., Micci, M.A., **Sell, S.L.**, Uchida, T., DeWitt, D.S., Prough, D.S. Hellmich, H. Circadian clock dysfunction in rat hippocampus and scn after traumatic brain injury, *Journal of Neurotrauma* 28th Annual National Neurotrauma Society Symposium, 2010.
28. **Sell, S.L.**, Zeng Y.P., Mathew B., Prough D.S., Dewitt D.S.: Estradiol increases gap junction communication and vasodilation following injury. *Mission Connect Blast Injury Symposium* December 2009.
29. **Sell, S.L.**, Zeng Y.P., Mathew B., Prough D.S., Dewitt D.S.: Estradiol increases gap junction communication and vasodilation following injury. *Journal of Neurotrauma*, 26:P13 2009.
30. **Sell, S.L.**, Parsley M., Cowart J., Kennedy D., Hellmich H., Dewitt D.S., Prough D.S. Connexin expression in male and female rats after traumatic brain injury. *Journal of Neurotrauma*, 25:P48, (july) 2008.
31. **Sell, S.L.**, Avila, M. A., Parsley, M., DeWitt, D.S., Prough, D.S., Barnes maze experience alters the results of the Morris water maze in rats after traumatic brain injury, *Mission Connect Annual Scientific Symposium*, December 2007.
32. **Sell, S.L.**, Avila, M. A., Parsley, M., DeWitt, D.S., Prough, D.S., Barnes maze experience influences Morris water maze results in rats after traumatic brain injury, *Journal of Neurotrauma*, 24(7):P86, National Neurotrauma Society Symposium, 2007.
33. **Sell, S.L.**, Dillon, A.M., Cunningham, K.A., Thomas, M.L., The Impact of the estrous cycle on individual variability in the response to cocaine in female rats. Vanderbilt University Summer Conferences, *Frontiers in Addiction Biology: Genomics and Beyond*, 2004
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