

Curriculum Vitae

Stephen W. White, PhD
Assistant Professor of Psychology
Sam Houston State University

ADDRESS:

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EDUCATION:

B.A., University of Mississippi, University, MS, 2007, Psychology
M.S., University of Mississippi, University, MS, 2014, Psychology
Ph.D., University of Mississippi, University, MS, 2018, Psychology (Behavioral Neuroscience)

PROFESSIONAL AFFILIATIONS:

Society for Neuroscience

RESEARCH INTERESTS:

Development, validation and utilization of animal models (Stress, anxiety & depression, microbiome & dysbiosis)
Development of animal models with greater translational relevance
Drug efficacy screening (anxiolytics, antidepressants)
Dysbiosis and drug efficacy

COURSES OFFERED:

Undergraduate courses

PSYC 1301: Introduction to Psychology (Honor's Section)
PSYC 3333: Physiological Psychology
PSYC 3391: Psychopharmacology
PSYC 4332: Learning
Honors 3375: Honors Dialogues Seminar

Graduate Courses

PSYC 5360: Advanced Physiological Psychology
PSYC 5361: Neuropsychopharmacology

Future Courses of Interest:

Neuroscience and Public Policy: Students would be required to learn topics covered in both Physiological Psychology and/or Psychopharmacology then compare scientific arguments and data for the etiology and pathology of psychological disorders/diseases to our current political philosophies and policies relating to treatment of such disorders/diseases.

AWARDS:

2014 Graduate Research Achievement Award, Psychology Dept., University of Mississippi.

PATENTS:

Master's Thesis: *Identification of a stress vulnerable, treatment-resistant, ketamine-sensitive genetic line in the chick anxiety-depression model*. This work added unique contribution to the overall body of work performed by Dr. Kenneth J. Sufka on the development and validation of the chick anxiety-depression model. Based on thesis findings, the University of Mississippi filed for, and was awarded, a patent on this animal model. US # 8999293 B2

COMMITTEES & SERVICE:

2015-2018: University of Mississippi Conference on Psychological Science, Psychology Department, University of Mississippi.
 2018-Current: Master's in general psychology Program review committee member.
 2018-2019: Search Committee Member Department of Psychology & Philosophy for Social/Cognitive position.
 2019-2020: Search Committee Member Department of Psychology & Philosophy for Director of Master's in Clinical Psychology Program.
 2020: Search Committee Member Department of Psychology & Philosophy for Clinical faculty in Master's in Clinical Psychology Program.
 2018-2020: Institutional Animal Care and Use Committee (IACUC) reserve member.
 2019-present: Student Success Committee Member.
 2019-present: Psychology Research Symposium Committee Member.
 2020-2021: Institutional Animal Care and Use Committee (IACUC) at-large member.

FUNDING:

Summer 2016 & summer 2017: Summer Research Stipend, Graduate School, University of Mississippi.
 Spring 2019: New Faculty Program (NFP) grant. Sam Houston State University Full funding of \$5,000.
 Spring 2020: Pilot Study Program Grant: *Exploring the Leaky-Gut Hypothesis of Depression in an avian model of depression*. Awarded \$7,979.00.

COMPETITIONS & PRESENTATIONS:

Fall 2016 & fall 2017: Participant in Three Minute Thesis (3MT) competition.
 Winner: 2017 Doctoral Category winner 3MT

PUBLICATIONS:

- McCurdy C, Abdelazeem A, Khan S, White S, Sufka K, (2015). *Design, synthesis and biological evaluation of bivalent benzoxazolone and benzothiazolone ligands as potential anti-inflammatory/analgesic agents*. *Bioorganic and Medicinal Chemistry*, 23, 3248-3259.
- Sufka KJ, White SW (2013). *Identification of a treatment-resistant and ketamine sensitive genetic line in the chick anxiety-depression model*. *Pharmacology Biochemistry and Behavior*, 113, 63-67.
- Llewellyn K, Bialonska D, Loria MJ, White SW, Sufka KJ, Zjawiony JK (2013.) *In vitro structure-activity relationships of aplysinopsin analogs and their in vivo evaluation in the chick anxiety-depression model*. *Bioorganic and Medicinal Chemistry*, 21, 7083-7090.
- Hymel KA, Loria MJ, Salmeto AL, White SW, Sufka KJ (2013.) *Strain vulnerability and resiliency in the chick anxiety-depression model*. *Physiology and Behavior*, 120, 124-129.
- Loria MJ, White SW, Robbins SA, Salmeto AL, Hymel KA, Murthy SN, Manda P, Sufka KJ (2013) *Brain-derived neurotrophic factor response in vulnerable and resilient genetic lines in the chick anxiety-depression model*. *Behavioural Brain Research*, 245, 29-33.

BOOK CHAPTERS:

- White SW, Sufka KJ (2012) *Chick anxiety-depression screening model*. In A. Szallasi (Ed.), *Methods in Pharmacology and Toxicology: TRP Channels in Drug Discovery*, Vol. II. Springer/Humana Press, pp. 203-210.
- White SW, Sufka KJ (2016). *Development and validation of pre-clinical models of treatment-resistant depression*. *Models of Treatment-Resistant Depression*. Nova Science Publishers.

CONFERENCE PAPERS AND ABSTRACTS:

- Stephen W. White, Kenneth J. Sufka, John M. Rimoldi, Rama S. Gadapelli (November, 2016). *Antidepressant Effects of the AMPA Receptor Potentiator LY392098 in a Model of Treatment-Resistant Depression*. Society for Neuroscience, San Diego, CA.
- Anchor, Sydney M., Jourdan, Mary K., White, Stephen W., and Sufka, Kenneth J., (April, 2016). *Effects on Environmental Enrichment on Genetic Vulnerability to Anxiety and Depression*. Neuroscience Research Day, Oxford, MS.
- Stephen W. White, Kenneth J. Sufka (April 2014). *Identification of a Stress-Vulnerable, Treatment-Resistant, Ketamine Sensitive Genetic Line in the Chick Anxiety-Depression Model*. Graduate Student Council Graduate Research Forum. University of Mississippi, University, MS. (2013) Society for Neuroscience, San Diego, CA.
- Stephen W. White, Kenneth J. Sufka (November 2014). *Differences in antidepressant drug sensitivity in inbred strains in the chick anxiety-depression model*. Society for Neuroscience, Washington, D.C.
- Loria MJ, White SW, Robbins SA, Salmeto, AL, Hymel KA, Manda P, Murthy SN, Sufka KJ

(June 2013). *BDNF response in vulnerable and resilient lines in the chick anxiety-depression model*. 20th Annual International "Stress and Behavior" Neuroscience and Biopsychiatry Conference, New Orleans, LA.

Salmeto AL, Hymel KA, Loria MJ, White SW, Sufka KJ (June 2013). *Strain Vulnerability and Resiliency in the chick anxiety-depression model*. 20th Annual International "Stress and Behavior" Neuroscience and Biopsychiatry Conference, New Orleans, LA.

Hymel KA, Salmeto, AL, White SW, Loria MJ, Sufka KJ (November 2012). *The sky is falling: Strain vulnerability and resiliency in the chick anxiety-depression model*. Neuroscience and Behavior Research Day, University of Mississippi Medical Center, Jackson, MS. (October 2012) Society for Neuroscience, New Orleans, LA.

Loria MJ, White SW, Robbins SA, Salmeto, AL, Hymel KA, Manda P, Murthy SN, Sufka KJ (November 2012). *Strains, brains and neurotrophic gains: BDNF response in vulnerable and resilient lines in the chick anxiety-depression model*. Neuroscience and Behavior Research Day, University of Mississippi Medical Center, Jackson, MS. (October 2012) Society for Neuroscience, New Orleans, LA.

CURRENT PROJECTS:

Stephen W. White, Rama S. Gadapelli, John M. Rimoldi, Kenneth J. Sufka (manuscript under revision). *Antidepressant effects of the AMPA receptor potentiator LY392098 in a model of treatment-resistant depression*.

Stephen W. White, Mary K. Jourdan, Sydney Anchor, Purnendu Kumar Sharma, S. Narashima Murthy, Kenneth J. Sufka (manuscript under revision). *Biochemical and Behavioral Effects of Environmental Enrichment on strain-dependent vulnerability to anxiety and depression in the chick separation stress paradigm*.

Cassandra A. Bailey, Connor D. Carlton, Stephen W. White (manuscript under review). *A Call to Policy Change: Cannabis in the NFL*.

FUTURE PROJECTS:

- Mapping the antidepressant effects of ketamine in a model of treatment-resistant depression.
- Evaluation of metabotropic glutamate receptors for anxiolytic and antidepressant properties in the chick anxiety-depression model.
- Exploring microbiome differences between stress-vulnerable and stress-resilient genetic lines in the chick anxiety-depression model.
- Investigating the relationship between antibiotic induced dysbiosis, neurotrophic factors, and drug efficacy.

SUPERVISION OF THESIS, DISSERTATIONS, AND OTHER PROJECTS

Masters Theses

Spring 2020 **Connor Carlton**, MS Biological Sciences. Co-Chair. *Evaluation of Lythrine, an alkaloid from Heimia salicifolia, in a fowl chick model of anxiety and depression.*

Spring 2021 **Nguyen Pham**, student in Clinical Psychology Master's Program. Chair. *Exploring the Leaky Gut Hypothesis of Depression Utilizing an Avian Model of Treatment Resistant Depression*

Honor's Contracts

Spring 2019 **Gwendolyn Wright**: *Autism Spectrum Disorder*. A presentation in PSYC 3333 Physiological Psychology on the symptomology, etiology, pathology, and treatment of ASD.

Fall 2019 **Gabriel Hapenciuc**: *Summary of Findings from Porphyromonas gingivalis in Alzheimer's disease brains: Evidence for disease causation and treatment with small-molecule inhibitors*. A presentation in PSYC 3333 Physiological Psychology based on findings in peer-reviewed research on the etiology of Alzheimer's.

Alexis Kring: *Medicinal Value of Hallucinogenic Drugs*. A paper for PSYC 3391 Psychopharmacology describing findings from peer-reviewed research on the use of hallucinogens in treating psychiatric disorders.

Fall 2020 **Andrea Morales**: *Teratogenic Effects of Psychostimulants*. A presentation for PSYC 3391 on the short and long-term effects of psychostimulants of fetal development based on peer-reviewed research.

Carson Reid: *The use of Hallucinogens as Therapeutics for Various Psychiatric Disorders*. A paper for PSYC 3391 Psychopharmacology describing findings from peer-reviewed research on the use of hallucinogens in treating psychiatric disorders.

McNair Scholars Projects

Summer 2020 **Samantha Rodriguez**: *Evaluation of the antibiotic bacitracin in feed for potential therapeutic effects in a model of treatment-resistant depression.*

Fall 2020 **Roanna Debler**: *Evaluation of pre- and probiotics for potential antidepressant effects in a model of treatment-resistant depression.*

Ruben Flores: *Evaluation of the AMPA receptor as a mediator of ketamine's antidepressant effects in a model of treatment-resistant depression.*

