

James G. Lamp

◆ me@jgla.mp ◆ https://jgla.mp ◆

EDUCATION

West Virginia University, MORGANTOWN, WV

HONORS BACHELOR OF SCIENCE IN NEUROSCIENCE

August 2020 - May 2023

GPA: 3.89/4.00

RESEARCH EXPERIENCE

Clinical Research Assistant

October 2023 – present

WEST VIRGINIA UNIVERSITY EYE INSTITUTE, *MORGANTOWN, WV*

- Established global database of clinical studies found within West Virginia University
- Opened, processed, and administered three different clinical studies directed towards hormonal ocular diseases
- Performed clinical laboratory procedures with maximal accuracy and efficiency
- Designed templates for source paperwork that automated a days-long process to minutes

Research Assistant II

January 2023 – March 2023

WEST VIRGINIA UNIVERSITY ROCKEFELLER NEUROSCIENCE INSTITUTE, *MORGANTOWN, WV*

- Excelled in laboratory management in brand-new neuropsychology establishment for over 250 hours
- Examined the relationship between the excitatory/inhibitory ratio and various behavioral processes and disorders, including ADHD and autism
- Set up state-of-the-art electrophysiology and stereotaxic surgery stations in preparation for future experimentation

Research Assistant

August 2020 – October 2022

WEST VIRGINIA UNIVERSITY SCHOOL OF MEDICINE, *MORGANTOWN, WV*

- Worked in neuropharmacology lab and showcased excellence in lab management, mammalian cell culture, and mouse husbandry for over 2000 hours
- Explored a novel strategy to treat neuropsychiatric disorders resulting from dysregulations in monoamine neurotransmitter homeostasis
- Performed hundreds of individual assays exploring opioid function on both cells and mice
- Independently managed Cre-Lox mouse genetics using PCR and gel electrophoresis techniques
- Co-mentored a summer research intern who later joined the lab as a graduate student
- Encouraged over twenty young researchers through guest lectures in undergraduate classes

PRESENTATIONS

- Society for Neuroscience. The G protein-biased kappa opioid receptor agonist nalfurafine reduces the reinforcing properties of hydrocodone while potentiating hydrocodone-induced nociception in C57BL/6J mice. Digital/San Diego, California. November 2022.
- West Virginia University Summer Undergraduate Research Symposium. Monoamine transporters show decreased uptake with delta and kappa opioid receptors. Digital/Morgantown, West Virginia. July 2021.
- West Virginia University Spring Undergraduate Research Symposium. Investigating RGS12 as a Potential Target for Cocaine Use Disorder Therapeutics. Digital/Morgantown, West Virginia. May 2021.

TECHNICAL SKILLS

- Aseptic embryonic mammalian (HEK293T) cell culture techniques, including transfection and

maintenance

- Blotting techniques, including polymerase chain response (PCR), Western blotting, and ELISA
- Ethical and efficient animal handling/husbandry protocols and techniques with experience in SoftMouse and Colony (Transnetyx)
- Mouse behavioral protocols, including hotplate response, elevated-plus maze, and conditioned-place preference with use of EthoVision and AnyMaze
- Mouse surgical skills, including experience with intracranial injections via stereotaxic surgery, intraperitoneal and subcutaneous injections and intracardiac perfusions in both neonates and adults
- Advanced skills in Microsoft Office and intermediate skills in GraphPad
- Literature review and compilation techniques, including Semantic Scholar and PubMed database searches
- Accurate and comprehensive documentation using personal Markdown database
- Enthusiastic and curious team-member and leader

COMMUNITY INVOLVEMENT

Political Chair, WV Sierra Club, *Morgantown, WV* January 2022 - *present*

- Formed relevant recommendations for thousands-strong voter base in recent election
- Discussed environmental issues with local candidates in a convincing and bipartisan fashion

President, WVU Sierra Student Coalition, *Morgantown, WV* August 2021 – May 2023

- Promoted and led a zero-plastic grassroots petition garnering over one thousand signatures and significant on-campus action from Student Government and Board of Governors
- Committed to several community service projects, including adopting a trail and four litter cleanups
- Organized and led a state and campus-wide environmental coalition by college students to bring attention to various legislative issues with over twenty different organizations

Events Chair, WVU College Democrats, *Morgantown, WV* August 2022 – May 2023

- Formed Events Committee with seven students to organize community activities
- Initiated voter registration drive that had over 100 people take action
- Laid groundwork for bipartisan debate on campus issues related to student safety

CERTIFICATIONS

Basic Life Support October 2023
Certified Student Leader (WVU) January 2023

AWARDS AND HONORS

West Virginia University Outstanding Senior 2023
Presidential Student Ambassador January 2022 – May 2023
WV Promise Scholarship August 2020 – May 2023
Mary R. Laidley Memorial Scholarship August 2020 – May 2023
168 Honorary March 2023
WVU President's List Spring 2023, Fall 2021, Spring 2021
WVU Dean's List Fall 2022, Spring 2022, Fall 2020
Helvetia Honorary May 2021
General Foundation of Woman's Clubs West Virginia Scholarship August 2020
Wm. Nelson Dunn Memorial Scholarship August 2020

PROFESSIONAL ASSOCIATIONS

Member, Association of Clinical Research Professionals
Member, Neuroscience Club, West Virginia University

October 2023 – *present*
August 2020 – May 2023

CONFERENCES

Sierra Club – Diverse leadership and effective team-building summit

March 2023

REFERENCES

Available upon request