

Allston L. Oxenrider
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SUMMARY

Energetic, focused, and driven cellular and molecular biology graduate seeking a laboratory position geared towards aiding in lab management and significant data contribution. Experienced in standard molecular laboratory practices and experimental techniques, with a multitude of in vivo, in vitro, and in silico skills. Hoping for challenging growth and learning opportunities. The aim is to contribute to the laboratory as efficiently as possible by supporting the goals of the principal investigator, contributing data that further projects, and assisting in managing laboratory staff, safety, and compliance.

EDUCATION

Bachelor of Science, Cellular & Molecular Biology, Augusta University (Augusta, GA.), December 2019

- Graduated cum laude
- Achieved institutional grade point average above 3.7

MS Office Suite course – Computer Applications, Word, Excel, and PowerPoint

ACCOMPLISHMENTS

Certificates

- **Certificate of Appreciation** – SHIFA Care Clinic – 2019, 2020

Organizational Affiliations

- **Biology Club**, Augusta University, 2018 – 2019
- **Tri Beta Biological Honors Society**, Augusta University, 2018 – 2019
- **The National Society of Leadership & Success - Sigma Alpha Pi**, Augusta University, Spring 2020

SKILLS

-General Laboratory Experience

- Familiar with management and **training of new and temporary lab members**
- Experience overseeing chemical inventory and IACUC inspections in order to ensure compliance with respective protocols
- Two years' experience in **management of principal investigator chemical inventory database**
- Knowledge of proper chemical storage, disposal, and handling methods
- Skilled in coordinating with department administrative staff as well as vendors in order to place orders in an efficient manner

-In vitro

- Two years' experience in the performance of basic lab techniques, including, but not limited to: **western blotting, immunoprecipitation, DNA gel electrophoresis, polymerase chain reaction, immunofluorescent staining, and buffer preparation**
- Experience culturing various primary cells and cell lines, including: **human microvascular retinal endothelial cells, human retinal astrocytes, human microglial cells, and human umbilical vein endothelial cells**
- Thoroughly trained in the use of **light, confocal, and stereo microscopes**

-In vivo

- Extensive knowledge of proper mouse handling and husbandry
- Two years' experience organizing, breeding, and genotyping mouse colonies
- Knowledge in the **implementation of Cre-Lox breeding strategies** to select for a desired genotype and phenotype
- Fine surgical experience, including performance of both **retinal and choroidal/retinal pigment epithelium eye dissections** for immunofluorescent staining

-In silico

- Highly proficient in Microsoft Office Suite for data entry and analysis purposes
- Experience with quantitative image analysis software, including: **Photoshop, AngioTool, and ImageJ**

PROFESSIONAL EXPERIENCE

Augusta University Ophthalmology Research – Augusta, GA (June 2021 - February 2023)

Research Assistant

Performed a variety of in vitro, in vivo, and in silico duties within the molecular laboratory setting

- Managed and taught basic laboratory techniques to lab members, including students and lab staff
- Managed, organized, and maintained laboratory chemical inventory/safety
- Carried out animal husbandry duties, including genotyping, for a colony of transgenic mice
- Developed cell-specific knockout transgenic mice through the use of Cre-Lox breeding strategies
- Performed tissue dissections, including both retinal and choroidal/retinal pigment epithelium eye dissections
- Utilized light, confocal, and stereo microscopy for imaging and tissue dissection
- Ran various basic laboratory experiments on a regular basis, including western blotting, immunoprecipitation, DNA gel electrophoresis, polymerase chain reaction, immunofluorescent staining, and buffer preparation

Shifa Care Clinic – Augusta, GA (February 2021 - June 2021)

Website Design and Development

Utilizing Squarespace software to design, animate, and dictate an aesthetic and professional website

- Chose style, layout, and rhetoric that facilitated an informative and pleasing user experience.
- Utilized excel in order to present tabulated data on the site.
- Designed a logo that best represented the clinic.
- Encouraged user interaction via volunteering, donating, or scheduling appointments.

Fort McAllister State Historic Park – Richmond Hill, GA (June 2015 – June 2016)

Park Ranger

Fulfilled a variety of duties for State Park, maintenance and other needs.

- Janitorial functions – Bathroom and facilities cleaning and maintenance.
- Landscaping – Mowing, weed eating, blowing, chainsaw use.
- Heavy Machinery Operation – Front-end loaders, dump trucks, various classes of vehicles
- Guided Tours – Assisted in tours of grounds as well as tours via kayak.
- Customer Service – Answered phones and other functions as needed.

PUBLICATIONS

1. Bui T, **Oxenrider A**, Amamoo R, Martin PM, Thounaojam MC, and Jadeja RN. Short-chain fatty acid signaling in retinopathy of prematurity. ARVO, 2023 New Orleans.
2. Ho M, **Oxenrider A**, Jadeja RN, Martin PM, Bartoli M, Thounaojam MC. Bile Acids Based Therapies to Treat Retinopathy of Prematurity. James & Jean Culver Vision Discovery Institute 8th Annual Scientific Retreat, March 2022, Augusta University.
3. Singh A, **Oxenrider A**, Xiong A, Thounaojam MC, Ganta V, Bartoli M. Exosomes from diabetic primary endothelial cells prime neutrophils to undergo NETosis demonstrating inflammaging in experimental diabetic retinopathy. James & Jean Culver Vision Discovery Institute 8th Annual Scientific Retreat, March 2022, Augusta University.
4. Thounaojam MC, **Oxenrider A**, Bui T, Jadeja RN, Martin PM, Bartoli M. Altered bile acids-gut microbiome axis in oxygen-induced retinopathy: potential implications for retinopathy of prematurity. ARVO May, 2022 Denver.
5. Thounaojam MC, **Oxenrider A**, GantaVC, Martin PM, Jadeja RN. Bile acid receptor signaling in Oxygen-induced retinopathy. ARVO, 2023 New Orleans.
6. Xiong A, Thounaojam MC, Yang Q, Jadeja RN, **Oxenrider A**, Martin PM, Huo Y, Bartoli M. Inhibition of miR-21 prevents abnormal angiogenesis and subretinal fibrosis in an experimental model of choroidal neovascularization. James & Jean Culver Vision Discovery Institute 8th Annual Scientific Retreat, March 2022, Augusta University.