Avery Holmes

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EDUCATION

University of Oklahoma - May 2021

B.S. in Environmental Studies

WORK EXPERIENCE

Research Scientist and Lab Manager I

The Institute for Integrative & Innovative Research; University of Arkansas

May 2023 to present | Dr. Anil Thota

Assists in electrode implantation surgical experiments

Creates electrodes for use in in vivo studies

Responsible for lab management duties, including procurement and ensuring the institute's adherence to university policies such as the chemical hygiene plan

Research Technician

Ibberson Lab; University of Oklahoma Microbiology and Plant Biology

February 2022 to May 2023 | Dr. Carolyn Ibberson

Animal Technique

Two years of experience with laboratory mice

Led murine wound model experiments using mice including infection, monitoring condition, harvesting wounds and plating wound homogenates for CFU counts/sending to collaborators

Molecular/Microbiological Technique

Experienced in cultivating microorganisms including anaerobes and polymicrobial cultures

Experienced in plasmid DNA purification, electroporating plasmid DNA, RNA extraction

Comfortable working with and troubleshooting a wide variety of lab equipment

Lab Management

Responsible for placing orders, maintaining stock inventory and chemical inventory, setting up new equipment, preparing media and sterilizing materials, biohazard waste management, lab safety walkthroughs, training and assisting undergraduate students

Research Assistant

Excitant Therapeutics

September 2021 to January 2022 | Dr. Anna Wang

Animal Technique

Performed regular intraperitoneal injection (IP), experienced in animal retinal examination by Micron IV, fundus fluorescein angiography (FFA), laser-induced choroidal neovascularization (CNV), and optical coherence tomography (OCT).

Molecular Technique

Cell line culture, flow cytometry, immunofluorescence staining, animal perfusion, tissue collecting.

Data Collection

Proficient in Windows 10, MS-Office, as well as Image J and Diver.