Walter A. Ivy

Lab Manager | Research Technician

Contact

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Skills

Team Leadership | Staff Training, Cross-functional collaboration, Workflow Optimization, Data Analysis & Reporting, Animal Husbandry & Breeding, Genotyping, Tissue Harvesting, Trigenic & Timed Breeding, Behavioral Testing: Barnes Maze, Rotarod, Novel Object, Open Field, Treadmill, Molecular Biology: PCR, Electrophoresis, Chromatography, DNA/RNA Extraction, Protocol Writing, IACUC Compliance, SOP Development, Laboratory Safety.

Tools

Microsoft Office, Outlook, Slack, TransnetYX, SoftMouse, AMI, mLIMS, GraphPad Prism, Excel, AOPS

Summary:

Accomplished Lab Manager with over five years of experience leading biomedical and academic research operations. Demonstrated expertise in managing laboratory workflows, supervising staff, and overseeing animal colony health and breeding programs. Skilled in implementing behavioral testing protocols, maintaining full compliance with IACUC and institutional standards, and optimizing data management through laboratory software systems. Proven success in streamlining operations, improving breeding efficiency, and mentoring research personnel to achieve high standards of scientific excellence and operational integrity. I am an observant, detail oriented and solution driven person, who values ingenuity and creating new and better protocols to reduce error and inefficiency in laboratory spaces.

Experience:

Lab Manager I Research Tech – Feinberg School of Medicine
08/2021 - CURRENT

- Managed the Behavioral and Phenotyping Core for the Pulmonary and Critical Care Division, conducting behavioral assays across lifespan studies.
- Led the setup, execution, and reporting of behavioral tests including Barnes Maze, Rotarod, Open Field, and Novel Object Recognition.
- Contributor to published research demonstrating that mitochondrial respiration in microglia is essential for cellular response to demyelinating injury but not required for proliferation.
- Contributor to published study revealing how vimentin influences regulatory T cell receptor-ligand interactions, leading to immune dysregulation during viral pneumonia.
- Oversaw 25 mouse strains (1,200+ mice), creating optimized breeding schemes that reduced trigenic breeding cycles by 7 months.
- Supervised 10 additional strains (800 mice) maintained by graduate researchers, ensuring compliance with SOPs and animal welfare standards.
- Trained all new lab members in husbandry, genotyping, experimental monitoring, and software platforms (TransnetYX, SoftMouse, AMI).
- Led transitions between mouse colony software platforms, developing training modules and documentation for lab-wide adoption.
- Performed experiments involving viral models (Influenza-induced lung injury), data visualization, and animal monitoring over extended timelines.
- Wrote and maintained IACUC protocols and standard procedures, ensuring lab-wide adherence and regulatory compliance.

EMT – Advanced Medical Transport
03/2020 - 08/2021

- Delivered emergency care and patient transport while maintaining professionalism and calm under pressure.
- Participated in the pilot R.A.S.P. program to reduce EMS strain during COVID-19, coordinating with first responders and dispatch teams.
- Awarded for bedside manner, multitasking, and effective communication in critical scenarios.

Independent Research.
09/2019 - 03/2020

- Conducted research using genetically engineered E. coli to collect hydrogel samples for protein yield analysis.
- Utilized chromatography and protein purification methods while optimizing yield and experimental efficiency.

Education:

Knox College - Bachelor of Art - Major: Biochemistry.
Minor: French

Certifications:

- Safe shipping of Biological Materials
- Laser Safety (Class 1-4)
- BSL-2
- Unit L Irradiatior Clearance
- Formaldehyde Safety
- Bloodborne Pathogen Safety
- Hazardous Chemical Waste Management