Jonah Huggins

Molecular Biologist & Research Scientist

Education

Clemson University - Clemson, SC May 2019
Bachelor of Science: Microbiology, Minor in Chemistry & Biological

Sciences

York Technical College - Rock Hill, SC Associate in Science

May 2018

Professional Experience

- Quantitatively optimize western blotting to allow high-throughput analysis of molecular proteomics
- Utilize 3D modeling software to design and print devices and materials used in developing the HiT-Western Array
- · Design, build, and prototype custom technology to achieve desired scientific results
- Perform a variety of molecular biological tests such as ELISA, RPPA, and BCA protein assays

Associate Biochemist

10/2019 - 07/2021

Nutra Manufacturing Inc. / Upstate Staffing Agency - Clemson, SC

- Conducts antibody-based immunoassay testing such as ELISA, Lateral Flow Assay, and Radial Immunodiffusion to detect antigens present in health supplements
- Tests health supplements by RT-PCR for both contaminant and non-contaminant DNA material in products
- Provides lateral flow based environmental allergen testing for all productions facilities

Adjunct Laboratory Instructor

Tri-County Technical College - Pendleton, SC

08/2020 - 05/2021

- Effectively teaches Biology 101 lab techniques to college students engaging in maintaining interest in laboratory lecture
- Facilitates laboratory lectures through a blended hybrid online and in-person class session managing both teaching and student-teacher discussions on laboratory materials
- Assigned and corrected educational learning materials for up to 48 students
- · Provides timely feedback and guidance on materials presented during laboratory sessions

Microbiology Laboratory Technician Lonza | Capsugel - Greenwood, SC

07/2019 - 11/2019

- Formulated tailored microbial growth promotion serums to direct request of Microbiologists
- Conducted bioburden and sterility monitoring of prepared media formulations
- Performed routine laboratory cleaning and calibrations of all equipment necessary.

University Experience

Intern Research

12/2018 - 05/2019

Clemson University Biology Department, Microbiology Division - Clemson, SC

- Conducted bioinformatic analysis of operational taxonomic units and phylotype data from Mothur
- Utilized R programming language to analyze, compare, and visualize microbiota data

Laboratory Assistant / Creative Inquiry Researcher O8/ Clemson University Chemical Engineering Department - Clemson, SC

08/2018 - 05/2019

- Performed routine lab procedures and chemical solution preparation
- Cultured and maintained tissue cultures for experimental design
- Collaborated with researchers to develop a novel technique for the Mesowestern Array
- Fabricated custom technologies and equipment to functionally change modern concepts of western blotting
- Managed laboratory biohazard and chemical waste disposal

Extern Student

05/2018 - 08/2018

University Of North Carolina Charlotte, Bioinformatics Department - Charlotte, NC

- Studied under researchers on the Urban Environmental Genome Project
- Practiced generating heatmaps from FastQ file formats in Python
- Evaluated coursework at UNCC related to bioinformatics
- Conducted basic computational techniques of Shotgun Metagenomics in Python

Laboratory Assistant

09/2017 - 05/2018

Clemson University Biology Department, Microbiology Division - Clemson, SC

- Assisted in routine preparation of experimental control parameters and sample maintenance
- Managed and maintained hundreds of microbial cultures
- Consolidated hundreds of miscellaneous cultures down to approximately 70 viable cultures.
- · Cryopreserved and cataloged all viable cultures

Personal Information

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Phone

(803) 371-3660

Email

jrhuggi@g.clemson.edu

LinkedIn

https://www.linkedin.com/in/jona h-riley-huggins-827572184/

Skills & Certifications

- ♦ cGMP Trained
- ♦ GDP Trained
- ♦ R programming
- ♦ Python Programming
- ♦ Unix Coding
- ♦ HTML5 Programming
- ♦ CSS3 Programming
- ♦ FreeCAD 3D Modelling
- "Weigh the Right Way" Certified— Mettler Toledo

Laboratory Proficiencies

- ♦ Aseptic Technique
- ◆ Enzyme Linked Immunosorbent Assay (ELISA)
- ♦ Tissue Culture Maintenance
- ♦ UV-Vis Spectroscopy
- ♦ NIR Fluorescence Imaging
- Nuclear Magnetic Resonance Spectroscopy
- ◆ Fourier Transmission Infrared Spectroscopy
- ♦ DNA Gel Electrophoresis
- Western Blotting
- ♦ Cell Growth Curve Analysis
- ♦ Biolog Phenotype Analysis
- Viability screening assays
- ♦ Real Time-PCR
- ♦ Lateral Flow Assay
- Radial Immunodiffusion