

Postdoctoral Research Associate-Fixed Term

Job no: 708703

Work type: Faculty/Academic Staff

Major Administrative Unit / College: College Of Natural Science

Department: Biochemistry & Molecular Biology Cns 10032098

Sub Area: FAS- Fac./Acad Staff

Salary: Salary Commensurate with Experience

Location: East Lansing

Categories: Research/Scientific, Fixed Term Academic Staff, Full Time (90-100%), Non-Union

Contact: quinnrob@msu.edu for questions

Apply Here: <https://careers.msu.edu/cw/en-us/job/506922/research-associatefixed-term>

Position Summary

Bile acids are vital to the digestion of our food, act as signaling molecules throughout our bodies and shape the structure of our microbiome. Recently, our collaborative group discovered a new set of bile acids made by the microbiome called 'microbially conjugated bile acids'. This discovery was published in the prestigious journal Nature last year <https://doi.org/10.1038/s41586-020-2047-9>. The Quinn Lab at Michigan State University (www.robertquinnlab.com) is undergoing a collaborative project with the laboratory of Dr. Laura McCabe and Dr. Robert Hausinger to study these exciting new microbial molecules and their role in the mammalian GI tract. We are searching for a postdoctoral researcher to lead this project. This postdoc will be responsible for microbiology and murine experiments on these microbial bile acids as we try to understand the breadth of their production, impact on host physiology and role in health and/or disease. The project will involve classic microbiology experiments, bioinformatics analysis of microbiome and metabolome data and experiments with a mouse model.

Duties include culturing bacteria, molecular biology, gene expression assays, mass spectrometry, metagenomics and mouse husbandry and experiments.

Equal Employment Opportunity Statement

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, age, disability or protected veteran status.

Required Degree

Doctorate -Microbiology, physiology, biochemistry

Minimum Requirements

PhD in microbiology, physiology, biochemistry or related field.

Desired Qualifications

Experience with mass spectrometry, microbiome data and/or mouse husbandry are desirable.

Required Application Materials

Curriculum vitae, cover letter, names and contact information for 3+ professional references.

Website

<https://bmb.natsci.msu.edu/>

MSU Statement

Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in the world, MSU pushes the boundaries of discovery and forges enduring partnerships to solve the most pressing global challenges while providing life-changing opportunities to a diverse and inclusive academic community through more than 200 programs of study in 17 degree-granting colleges.

Advertised: Jun 9, 2021 Eastern Daylight Time

Applications close: Jul 11, 2021 Eastern Daylight Time