



PMediC

Pacific Northwest bioMedical Innovation Co-laboratory (PMediC):

An OHSU/PNNL Collaboration



PMediC SEMINAR SERIES

MARCH 2, 2022 | 3:00–4:00 P.M.

Central Control of Peripheral Immune Responses

A wide variety of pathogens present an acute survival challenge in humans, and our ability to rapidly and precisely respond to these pathogens is critical to our survival as a species. Although there are some common immune responses to different classes of pathogens (e.g. viruses, bacteria, etc.), effective control and elimination of pathogens requires rapid deployment of immune resources directed specifically at the invading pathogen class. The central nervous system (CNS) is a critical site of sensing and bioamplification of immune signals from invading pathogens. This function is critical in producing behavioral, metabolic, and immunologic adaptations in a pathogen-specific manner to enhance survival.



DR. DANIEL MARKS

Professor of Pediatrics
and Senior Associate Dean
for Research, School of
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DR. SNEHA COUVILLON

Metabolomics,
Biomedical
Scientist, PNNL

This project uses an integrative approach of combining multi-omics (metabolomics, lipidomics and transcriptomics) and immunological data — leveraging unique capabilities and expertise at PNNL and OHSU- to obtain a systems-level mechanistic understanding of how the brain differentially modulates peripheral metabolism by sensing bacterial or viral infection.

Join the Meeting

