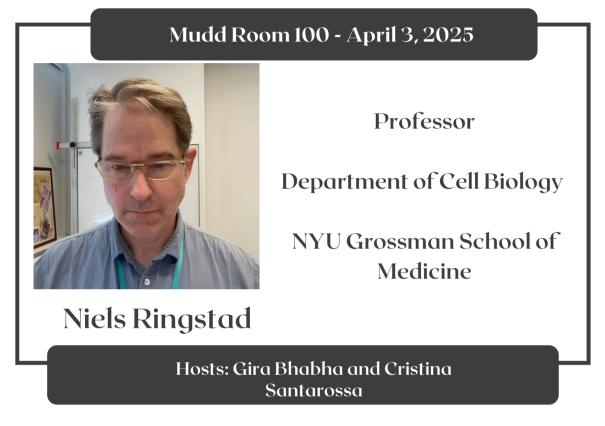
## Johns Hopkins University Department of Biology Seminar Series

Thursdays, 4:00pm For more information go to: <u>https://bio.jhu.edu/events</u>



## Modulation of behavior by host-microbe interactions

Microbes exert powerful effects on animal physiology either as pathogens or as commensals. I will describe our efforts to understand how host-microbe interactions affect the animal nervous system to influence behavior. Using behavioral genetics of the nematode C. elegans, we have identified neural circuits and molecular mechanisms that mediate powerful effects of environmental microbes on foraging and reproductive behaviors of C. elegans. In parallel studies, we have developed screening approaches to identify neuroactive microbial metabolites, and I will discuss our progress towards the discovery of compounds that impact serotonin signaling in vivo.