

STEM Pathways Summer 2022 Seminar Series

Understanding the Influence of Gene Regulatory Network's Tasks



Presented By

Zeba Wunderlich, Ph.D.

<https://wunderlichlab.mystrikingly.com/>

Boston University, Assistant Professor
Biology Department

Schedule

Friday, June 24, 2022

12:00 pm - 1:00 pm

CILSE 106C

About the Wunderlich Lab

The Wunderlich lab is interested in understanding how a gene regulatory network's tasks influence its architecture, robustness, and evolvability. To probe these questions, The Wunderlich lab uses two model systems: the *Drosophila* early embryonic patterning system and the *Drosophila* innate immune response. In both systems, The Wunderlich lab pairs imaging-based and genomic measurements of gene expression with statistical and physically based computational models to explore questions of gene regulatory network function. Furthermore, they exploit naturally-occurring sequence variation between individuals and species as a tool to measure how changes in regulatory DNA affect transcriptional regulation.



STEM
PATHWAYS