# DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY SEMINAR SERIES





### Tomas Helikar, PhD Susan J. Rosowski Associate Professor University of Nebraska - Lincoln

Department of Biochemistry

## Host: Juilee Thakar, Ph.D.

Our work centers around multi-scale modeling in life sciences research and education. Located in the **Biochemistry Department at the University of Nebraska-Lincoln**, the focus of our efforts is three-fold:

Better understand the dynamics of molecular and cellular mechanisms in complex networks under healthy as well as abnormal conditions. Examples of our work include the human immune system and plant root microbial interactions;

Make computational biology, modeling, data analysis and visualization broadly accessible to laboratory researchers, translational scientists, and professionals through easy-to-use cutting-edge software technologies, and

Enable computational modeling and simulation as an educational tool, whereby life sciences students can learn about the dynamic and complex nature of biological processes and diseases by building, breaking, simulating, and analyzing computational models of these biological systems. Our simulation-driven approach has now been adopted by tens of institutions in the US and worldwide, ranging from high schools to undergraduate and graduate-level life sciences courses.

#### Monday, November 29, 2021 12:00 PM

#### BY ZOOM:

https://urmc.zoom.us/j/93537717243?pwd=SVItUzA5R0VSVWUvaC9ISTQveExIdz09

#### Passcode: 947973

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