The Summer School is intended for experimental immunologists and scientists who desire to learn how to use mathematical/computational models, in particular differential equation models and their experimental data to address immunological questions.

Dates: June 1-4, 2015

Location: University of Rochester, Rochester, NY

Registration is limited to 50 participants, comprised mainly of graduate students, postdocs and junior faculty from an immunology or virology background.

Scholarship: A limited number of scholarships will be available to cover travel and lodging for attendees; A copy of CV, a short statement of purpose and letter of recommendation from advisor are required for all travel award applicants.

Lectures will include:

- Basic concepts of mathematical and computational modeling of immunology
- Basics of statistical experimental design, statistical inference and model fitting
- Mathematical modeling in immunology and biology using ODE models
- Bioinformatics data analysis and modeling using R
- Automatic flow cytometry gating
- Hands-on tutorial for modeling & data analysis software tools: R and DEDiscover

Local organizing committee
University of Rochester School of Medicine and Dentistry

- Hulin Wu, PhD (Co-Chair)
- Martin Zand, MD, PhD (Co-Chair)
- Alan Perelson, PhD
- Alexandra Livingstone, PhD
- Hongyu Miao, PhD
- Juilee Thakar, PhD
- Jeanne Holden-Wiltse, MPH

NIH/NIAID project officers

- Alison Deckhut Augustine, PhD
- Timothy Gondre-Lewis, PhD
- Ashley Xia, PhD

Sponsored by the Center for Biodefense Immune Modeling and the NIAID Modeling Immunity for Biodefense program.

For details and Summer School schedule, please visit: https://cbim.urmc.rochester.edu/education/2015-summer-school