



Computational Biology for Biology Educators
UC Merced June 7 - 13, 2009

Day 0 (Sunday 7:00 – 9:00 PM):

1. Welcome Reception

Day 1 (Monday – All day):

1. Intro and resources
2. Computational thinking and Bioinformatics
3. NetLogo for agent-based and system dynamics modeling
4. MATLAB/Scilab dynamic modeling with ODEs

Day 2 (Tuesday – All day):

1. Molecular phylogenetics
2. Transcriptomics
3. Homology modeling - I
4. Homology modeling - II

Day 3 (Wednesday AM):

1. Bringing bioinformatics to the classroom
2. Model-based pedagogy with NetLogo and Scilab
3. Wednesday afternoon and evening are free for participants to explore the local area, including Yosemite National Park and take a break from the workshop.

Day 4 (Thursday – All day):

1. Projects and Mini-parallel Sessions*

Day 5 (Friday – All day):

1. Projects and Mini-parallel Sessions*
2. Presentations

Day 6 (Saturday AM):

1. Presentations
 2. Wrap-up meeting
- End at noon

*Mini-parallel sessions on particular tools or computational topics will be selected by quorum: agent-based, system dynamics, ODE or molecular dynamics modeling, as well as bioinformatics tools, Python and BioPython, R and Bioconductor.