

Working Group: Multiscale Modeling of the Life Cycle of *Toxoplasma gondii*

Second meeting, March 12-14, 2012

Monday, March 12

- 8:15-8:45 Breakfast at NIMBioS
- 8:45-9:00 Introduction of Participants; Overview
- 9:00-9:45 Between-host modeling (Emmanuelle)
- 9:45-10:30 Ecology of toxoplasmosis in a highly endemic system: source attribution as a public health tool (Claudia)
- 10:30-10:45 Break
- 10:45-11:30 Evolutionary ecology (Maud)
- 11:30-12:00 Agent-based modeling and approximation (Xiaopeng)
- 12:00-1:30 Lunch at NIMBioS
- 1:30-2:15 Incorporating size structured models of intra-cellular growth into a model of within-host dynamics (Mike)
- 2:15-3:00 Coupling of between- and within-host dynamics (Jorge)
- 3:00-3:15 Break
- 3:15-3:45 Inferring growth and death functions from cyst size distribution (Adam)
- 3:45-4:15 Modeling stage conversion and reactivation (Xiaopeng)
- 4:15-5:00 Open discussion
- 6:30 Group party at Suzanne's place

Tuesday, March 13

- 8:15-8:45 Breakfast at NIMBioS
- 8:45-10:45 Potential extra presentations, breakout discussions
- 10:45-11:00 Break
- 11:00-12:00 Report from breakout groups
- 12:00-1:00 Lunch at NIMBioS
- 1:00-3:45 Review for new questions, reshuffle, breakout group meetings
- 3:45-4:00 Break
- 4:00-5:00 Report from Breakout Groups
- 5:00-5:30 Open discussions
- 5:30-6:30 NIMBioS reception

Wednesday, March 14

8:15-8:45 Breakfast at NIMBioS

8:45-10:30 Breakout Group Meetings

10:30-10:45 Break

10:45-12:00 Report from Breakout Groups, Summary, and Plan for Future Meetings

Lunch at NIMBioS