

NCMI - NIMBioS WORKSHOP: MODELING APPROACHES FOR MEDICAL INTELLIGENCE
Knoxville, TN
23-25 January 2011

The objective of the workshop is to provide expert consultation and generate a report on the following:

- Given NCMI requirements, a description of what analytical advantage different computational and modeling approaches can and cannot provide.
- An evaluation of the range of modeling techniques amenable to meeting NCMI requirements including:
 - Forecast/prediction quality including assessment of uncertainty
 - Data requirements in terms of minimal quantity, quality, and type
 - Technical necessities
 - Time requirements for preliminary and well-validated results

Agenda:

Day 1 - 23 January

0830-0900 *Breakfast @ NIMBioS*

0900-0930 Welcome, introductions, workshop objective, potential follow-up meeting
Chair, Steven Riley

0930-1000 Workshop series objectives, NCMI/MA-2 mission, requirements, current approaches (IDRA) – Dylan George

1000-1030 Review of disease risk modeling – Simon Hay

1030-1050 *Break*

1050-1150 Group discussion – disease risk modeling

1150-1250 *Lunch*

1250-1320 Review of forecast modeling for influenza – Boloye Gomero, Suzanne Lenhart

1320-1420 Group discussion – forecast modeling

1420-1450 *Break*

1450-1550 Group discussion – social, political, economic impacts of biological events

1550-1645 Break out groups (disease modeling, forecast modeling, “context” modeling)

1645-1700 Wrap-up, organize effort for the next day (Chair)

1700 Adjourn

Day 2 - 24 January (Likely structure, subject to review on Day 1)

0830-0900 *Breakfast @ NIMBioS*

0930-1120 Break out groups to synthesize on topics from Day 1 (towards summary tables, key references and rationale for example projects)

1120-1150 Wider group to review and feedback to breakout groups

1150-1250 *Lunch*

1250-1420 Group work

1420-1450 *Break*

1450-1630 Group work

1630-1700 Wrap-up, organize effort for the next day (Chair)

1700-1800 *Reception @ NIMBioS*

Day 3 - 25 January

0830-0900 *Breakfast @ NIMBioS*

AM Continued work on synthesis

Group discussion on potential priority projects (low hanging fruit)

Wrap-up (Chair)