

International Workshop on Gene Signalling Pathway Analysis and Representation for the Dendritic Cell

13-15 NOVEMBER 2008, CENTRO STUDI NAZIONALE CISL, VIA DELLA PIAZZOLA 71, FLORENCE, ITALY



Functional evaluation of -omics data is rising its importance as the volume and types of quantitative information on biological systems is increasing.

This fact requires access to knowledge on biological mechanisms at the molecular level and, in particular, to the use of representations that capture the structure of these mechanisms, such as pathways. The use of pathway information in the interpretation of -omics data promises to offer an insight that is tolerant to noise in data and to incomplete knowledge of biological systems.

This workshop aims at exploring the issues related to the representation of signalling pathways, and their application in the interpretation of data. It will have an applied focus, with a public consisting of experts in the field and potential users, and it is held in conjunction with I-ATLAS: International Workshop on Gene Signalling Pathway Analysis and Representation for immuno-genomics.

It will draw attention to issues related to pathway representations and ontologies, to statistical methods for the integration of pathway knowledge into data analysis, and to the visualization of pathway information.

Program

13 November 2008 (Thu) - Centro Studi Nazionale CISL

<<This day is dedicated to DC-ATLAS, the dc-thera pathway initiative, with presentations from participants (16 slots available)>>

- 8.30-9.00 Welcome coffee
- 9.00-9.30 Presentation of the Pathway Initiative and status
- 9.30-11.10 Pathway model report 4x 25m presentations (inc. 5 min. questions)
- 11.10-11.30 Coffee Break
- 11.30-13.10 Pathway model report 4x 25m presentations (inc. 5 min. questions)
- 13.10-14.30 Lunch
- 14.30-16.10 Pathway model report 4x 25m presentations (inc. 5 min. questions)
- 16.10-16.30 Coffee Break
- 16.30-18.10 Pathway model report 4x 25m presentations (inc. 5 min. questions)
- 18.10-18.40 Conclusions and next actions
Free evening

14 November 2008 (Fri) - Centro Studi Nazionale CISL

<<This day is open to dc-thera and external participants>>

- 8.30-9.00 Welcome coffee
- 9.00-9.15 Welcome and introduction
- Session: Pathways, Networks, Ontologies --
- 9.15-10.05 Keynote: TBA (45' + 5' questions)
- 10.05-11.15 Selected talks (1x 25' + 5' questions, 2x 15' + 5' questions)
- 11.15-12.00 Coffee Break and Poster Session
- 12.00-12.50 Keynote: TBA (45' + 5' questions)
- 12.50-14.00 Lunch

-- Session: Statistical methods to assess enrichment functions

- 14.00-14.50 Keynote: TBA (45' + 5' questions)
- 14.50-16.00 Selected talks (1x 25' + 5' questions, 2x 15' + 5' questions)
- 16.00-16.30 Coffee Break and Poster Session
- Session: Graphical representation of biological networks and concepts
- 16.30-17.20 Keynote: TBA (45' + 5' questions)
- 17.20-18.30 Selected talks (1x 25' + 5' questions, 2x 15' + 5' questions)
- 18.30-19.30 Poster Session
- 20.00 Social Dinner in Florence

15 November 2008 (Sat) - University of Florence

<<Tutorials and Jamboree>>

- 9.30-12.30 2x Tutorials on Pathway Annotation (University of Florence: INOH, PathVisio)
- 12.30-13.30 Lunch
- 13.30-17.30 Open session on pathway representation: DC-ATLAS curators and pathway initiative participants check the models produced so far and discuss their meaning and representation.

Speakers:

Duccio Cavalleri, University of Florence, Italy
Sorin Draghici, Wayne State University, USA
Alvis Brazma, EBI, Cambridge, UK
Emrek Demir, MSKCC, USA
Chris Evelo, Maastricht University, NL
Sandra Gessani, ISS, Italy

Workshop chairs

Duccio Cavalleri, University of Florence, Italy
Sorin Draghici, Wayne State University, USA
Andrea Splendiani, University of Rennes 1, France

Call for papers deadline: October, 20th

Registration and paper submission:
<http://i-atlas.org>

Information: info@i-atlas.org

