

1.00 – 3.00 p.m. Lunch

3.00 – 5.00 p.m.: Session 4. *Biocomplexity as a Paradigm in other Sciences*

Massimo Ricottilli, *From complex evolution and co-evolution to networking: some ideas straddling biology and economics*

Armando Bazzani, *Self organizing properties in agent based models*

5.00 p.m. Conclusion

Remarks from: Ron Pearlman, Gastone Gastellani, Claudio Franceschi, Vita Fortunati



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CIG CENTRO INTERDIPARTIMENTALE
"L. GALVANI" PER STUDI INTEGRATI
DI BIOINFORMATICA, BIOFISICA E
BIOCOMPLESSITA'

Biocomplexity: a Paradigm Useful for other Disciplines?

International Italo-Canadian Workshop
organized by the universities of York
(Toronto, Canada) and Bologna (Italy)

Bologna July 13 – 15, 2005

Dipartimento di Patologia Sperimentale
Aula Magna
Via San Giacomo, 12

Wednesday, July 13

4.00-5.00 p.m. : Registration

5.00 p.m.: Welcome and opening remarks

Gastone Castellani and Ron Pearlman,
Introduction to the Conference

5.30 p.m.: Key note lecture

Claudio Franceschi, *System Biology and Aging*

7.00 p.m.: Conference Opening Buffet

Venue: “Il caffè della Corte”, Via Corte Isolani, 5/B

Thursday, July 14

9.00 – 11.30 a.m.: Session 1. *Complexity and Biocomplexity*

Giorgio Turchetti, *Modeling Complex Systems*

Xin Gao, *Development of Statistical*

Methods in Genomic Studies

Gastone Castellani, *Biocomplexity, Learning and Memory*

Gianni Cesareni, *Selectivity and promiscuity in the protein interaction network mediated by peptide recognition modules*

11.30 a.m.: Coffee Break

11.45 a.m. Key note lecture

Ron Pearlman, *Genomics and Proteomics in a Unicellular Eukaryotic Model Organism; From Organellar Proteomics to Global Systems Studies*

1.00 – 2.15 p.m. Lunch

2.15 – 4.30: Session 2. *Biocomplexity I (Proteomics)*

Rita Casadio, *Biomolecular recognition and proteomics*

Logan Donaldson, *Exceptional functional diversity from a common protein fold*

Michael Siu, *Mass Spectrometry-Based Proteomics as a Tool in Unraveling Biocomplexity”*

4.30 p.m.: Coffee Break

4.45 p.m.: *Scientific Projects of collaboration*

Participants from: York University (Canada), Bologna University (Italy), CIGENE (Norway), ETNP ACUME.

Friday, July 15

9.00 – 11.15 a.m.: Session 3. *Biocomplexity II (Genomics and Immunology)*

Gillian Wu, *GOD is in the details: Generation of Diversity in the Immune System*

Paolo Tieri and Silvana Valensin, *Cytokine Network Modeling*

Daniel Remondini, *A New Approach in Microarray Analysis*

11.15 a.m.: Coffee Break

11.30 a.m. – 1 p.m.: Round Table on *Complexity and Humanities*

Participants: Andrea Battistini, Dino Buzzetti, Ruggero Campagnoli, Vita Fortunati, Marianna Forleo, Elena Lamberti, Gian Paolo Renello, Anna Soncini, Federica Tomasi