

Program

Thursday, February 2

Welcome Addresses

- h.14:00 Stefano Petrucciani (Director of the Department of Philosophy, Sapienza University of Rome)
- h.14:10 Piergiorgio Donatelli (Coordinator of the Doctorate in Philosophy, Sapienza University of Rome)
- h.14:20 Marcello Buiatti (President of ResViva)

Predictability and Contingency in Physical and Biological Sciences
chair: Elena Gagliasso

- h.14:30 Giuseppe Longo (Ecole Normale Supérieure, Paris) – *Unpredictable Phase Spaces, or How Future Depends on the Past and on Rare Events in Systems of Life*
- h.15:20 Guido Chelazzi (University of Florence) – *The Claim of Predictability vs Contingency in Ecology*
- h.16:00 Fabio Sterpetti (Sapienza University of Rome) – *On the Nature of Natural Selection*
- h.16:30 *Coffee break*
- h.16:40 Emanuele Coco (University of Catania) – *Harmonies Lost: Philosophy and Delusions in Constructing Nature*
- h.17:10 Philippe Huneman (CNRS/ Université Paris 1 Sorbonne) – *Making sense of Gould's Evolutionary Contingency Thesis: Issues of Grain and Scales*

Friday, February 3

Big-Data and Predictability in Bio-medicine
chair: Mauro Capocci

- h.9:30 Paolo Vineis (Imperial College of London) – *The Tsunami of New Data: Potential for Bias*
- h.10:10 Giuseppe Novelli (University of Rome Tor Vergata) – *The Bermuda Principles in the Era of Precision Medicine*
- h.10:50 Giulia Frezza (Sapienza University of Rome) – *Old and New Big Data: of Mice and Men*
- h.11:20 *Coffee break*
- h.11:30 Luigi Preziosi (The Polytechnic University of Turin) – *Determinism and Stochasticity in Mathematical Modelling for Cell Migration*

- h.12:10 Sabina Leonelli (University of Exeter) – *From Production to Re-use: Disseminating and Integrating Big Data in Biology and Biomedicine*

h.13:10 *Lunch*

Friday, February 3

The Evolutionary Contingency: Past and Present
chair: Barbara Continenza

- h.15:00 Silvia Caianiello (ISPF, CNR, SZN, Naples) – *Seinesgleichen geschieht: Contemporary Challenges to Evolutionary Contingency*
- h.15:40 Sara Campanella (Sapienza University of Rome) – *Synthesis and Behavior: a New Role for Selection*
- h.16:10 David Ceccarelli (University of Rome Tor Vergata) – *Orthogenetic Predictability: Orderliness and Invariance in Early Macro-evolutionary Explanations*
- h.16:40 *Coffee break*
- h.17:00 Virginie Orgogozo (Institut Jacques Monod, Paris) – *Can we Predict Evolution?*

Saturday, February 4

Brains and Behaviours in Ecological Frameworks
chair: Marco Celentano

- h.9:30 Lamberto Maffei (Scuola Normale Superiore di Pisa/Accademia dei Lincei) – *Environment as Therapy*
- h.10:10 Carmela Morabito (University of Rome Tor Vergata) – *Epigenetics and Development in Cognitive Functions*
- h.10:40 Mattia Della Rocca (University of Pisa/ University of Rome Tor Vergata) – *Prediction Possibility "in Silico-Simulation"?*
- h.11:10 *Coffee break*
- h.11:20 Salvatore Maria Aglioti (Sapienza University of Rome/Fondazione Santa Lucia, IRCCS) – *Virtual Worlds for Real People*
- h.12:00 Dario Martinelli (International Semiotics Institute Kaunas, University of Technology) – *Estimations, Plans, Narratives: how non-Human Animals Deal with the Future and "Possible Worlds"*
- h.12:40 Elena Gagliasso (Sapienza University of Rome) – *Concluding Remarks*

Scientific Committee: ResViva – Organizing Committee: S. Caianiello, S. Campanella, D. Ceccarelli, G. Frezza, E. Gagliasso

DIPARTIMENTO
DI FILOSOFIA



SAPIENZA
UNIVERSITÀ DI ROMA

Prin (2012) Modelli e interferenze
nella scienza, aspetti logici,
epistemologici e cognitivi



International Workshop 20th Anniversary of Res Viva

Sliding Doors: Prediction and Contingency in Biosciences

February 2-4, 2017

Villa Mirafiori (Aula XII), Sapienza University of Rome, Italy