Monday, May 14:

- **Registration**: The International Centre of Biodynamics
  1B, Intrarea Portocalelor Street
  6 District, Bucharest
  Phone: (40)21.310.4354; (40)21.310.4364

- All sessions will be in the lecture room of The International Centre of Biodynamics

10:00 – 11:00  **Welcome and orientation**

11:00 - 12:15  **Prof. Octavian Popescu (U. Babes-Bolyai, Cluj):**
  *Primer to Molecular and Cell Biology I*

12:15 - 14:15  Lunch

14:15 - 16:00  Afternoon free

19:00 - 21:00  Dinner

Tuesday, May 15

9:30 - 10:45  **Prof. Octavian Popescu (U. Babes-Bolyai, Cluj):**
  *Primer to Molecular and Cell Biology II*

10:45 - 11:00  Coffee Break

11:00 - 12:15  **Prof. Octavian Popescu (U. Babes-Bolyai, Cluj):**
  *Primer to Molecular and Cell Biology III*
12:15 - 14:15  Lunch

14:15 - 15:30  Prof. Ioan Andricioaei (U. of Michigan, USA):
*Dynamics and Thermodynamics of DNA and Protein-DNA Complexes I*

15:30 - 15:45  Coffee Break

15:45 - 17:00  Prof. Ioan Andricioaei (U. of Michigan, USA):
*Dynamics and Thermodynamics of DNA and Protein-DNA Complexes II*

19:00 - 21:00  Dinner

Wednesday, May 16

9:30 - 10:45  Prof. Ioan Andricioaei (U. of Michigan, USA):
*Dynamics and Thermodynamics of DNA and Protein-DNA Complexes III*

10:45 - 11:00  Coffee Break

11:00 - 12:15  Prof. Ronald Levy (Rutgers, USA):
*Computational Models of Protein Biophysics I*

12:15 - 14:15  Lunch

14:15 - 15:30  Prof. Ronald Levy (Rutgers, USA):
*Computational Models of Protein Biophysics II*

15:30 - 15:45  Coffee Break

15:45 - 17:00  Prof. Ronald Levy (Rutgers, USA):
*Computational Models of Protein Biophysics III*

19:00 - 21:00  Banquet

Thursday, May 17

9:30 - 10:45  Prof. Lewis Wolpert (University College, London):
*Topics in Development I: The Fly*

10:45 - 11:00  Coffee Break

11:00 - 12:15  Prof. Lewis Wolpert (University College, London):
Topics in Development II: Vertebrates and Cell Differentiation

12:15 - 14:15   Lunch
14:15 -       Free Evening
19:00 - 21:00  Dinner

Friday, May 18

9:30 - 10:45  Prof. Lewis Wolpert (University College, London):
Topics in Development III: The Limb and the Nervous System

10:45 - 11:00  Coffee Break

11:00 - 12:15  Prof. Laszlo Barabasi (Notre Dame & Northeastern U., USA):
From Cellular Networks to Human Diseases I

12:15 - 14:15  Lunch

14:15 - 15:30  Prof. Laszlo Barabasi (Notre Dame & Northeastern U., USA):
From Cellular Networks to Human Diseases II

15:30 - 15:45  Coffee Break

15:45 - 17:00  Prof. Laszlo Barabasi (Notre Dame & Northeastern U., USA):
From cellular networks to human diseases III

19:00 - 21:00  Dinner

Monday, May 21:

9:30 - 10:45  Prof. John Reinitz (SUNY at Stony Brook, USA):
Transcriptional Regulatory Networks in Development I

10:45 - 11:00  Coffee Break

11:00 - 12:15  Prof. John Reinitz (SUNY at Stony Brook, USA):
Transcriptional Regulatory Networks in Development II
12:15 - 14:15 Lunch

14:15 - 15:30 Prof. John Reinitz (SUNY at Stony Brook, USA): *Transcriptional Regulatory Networks in Development III*

15:30 - 15:45 Coffee Break

15:45 - 17:00 Prof. Michel Kerszberg (U. Pierre et Marie Curie, Paris): *Simulations of Development I*

19:00 - 21:00 Dinner

**Tuesday, May 22**

9:30 - 10:45 Prof. Michel Kerszberg (U. Pierre et Marie Curie, Paris): *Simulations of Development II*

10:45 - 11:00 Coffee Break

11:00 - 12:15 Prof. Michel Kerszberg (U. Pierre et Marie Curie, Paris): *Simulations of Development III*

12:15 - 14:15 Lunch

14:15 - 15:30 Prof. Aviv Bergman (Albert Einstein School of Medicine, NY): *Evolutionary Causes and Consequences of Robustness*

15:30 - 15:45 Coffee Break

15:45 - 17:00 Prof. Aviv Bergman (Albert Einstein School of Medicine, NY): *Functional and Evolutionary Inference in Gene Networks: Does Topology Matter?*

19:00 - 21:00 Dinner

**Wednesday, May 23**

9:30 - 10:45 Prof. Aviv Bergman (Albert Einstein School of Medicine): *The Deterministic Mutation Hypothesis Revisited: Co-evolution of Robustness, Epistasis and Recombination Favors Asexual Reproduction*

10:45 - 11:00 Coffee Break

11:00 - 12:15 Prof. Gyan Bhanot (Rutgers & Cancer Institute of NJ,
USA): Population Genetics, Migrations and Complex Phenotypes

12:15 - 14:15   Lunch

14:15 - 15:30   Dr. Gabriela Alexe (Broad Institute, Boston, USA): Phylogeny Methods to Study Human Migrations

15:30 - 15:45   Coffee Break

15:45 - 17:00   Prof. Gyan Bhanot (Rutgers & Cancer Institute of NJ, USA): Introduction to the Biology of Cancer I

19:00 - 21:00   Banquet

Thursday, May 24

9:30 - 10:45   Prof. Gyan Bhanot (Rutgers & Cancer Institute of NJ, USA): Introduction to the Biology of Cancer II

10:45 - 11:00   Coffee Break

11:00 - 12:15   Dr. Gabriela Alexe (Broad Institute, Boston, USA): Portraits of Cancer Initiation, Progression and Metastasis from Microarray Analysis I

12:15 - 14:15   Lunch

14:15 - 15:30   Free Evening

19:00 - 21:00   Dinner

Friday, May 25

9:30 - 10:45   Dr. Gabriela Alexe (Broad Institute, Boston, US): Portraits of Cancer Initiation, Progression and Metastasis from Microarray Analysis II

10:45 - 11:00   Coffee Break

11:00 - 12:15   Prof. Sorin Solomon (Hebrew University, Jerusalem):
The Importance of Being Discrete: Life Always Wins on the Surface

12:15 - 14:15  Lunch

14:15 - 15:30  Prof. Sorin Solomon (Hebrew University, Jerusalem): *Stochastic Logistic Dynamics and the Emergence of Scaling*

15:30 - 15:45  Coffee Break

15:45 - 17:00  Prof. Sorin Solomon (Hebrew University, Jerusalem): *Microscopic Noise and Emergence of Adaptive Collective Objects*

19:00 - 21:00  Dinner