

BIOMATH School for Young Scientists: 19 June 2011

Schedule of the presentations

1. (10:00-10:45) Prof. Weldon A. Lodwick :
Some Mathematical Approaches (Deterministic and Generalized
Uncertainty) in Two Radiation BioMedical Problems

2. (10:45-11:15) Antony T. Popov:
Robot Motion Planning in Biomedicine

Coffee Break 11:15 - 11:45

3. (11:45-12:15) Peter Petrov, Milko Krachounov, Ernest van Ophuizen,
Jack Leunissen, Ivan Popov, Dimitar Vassilev:
System for computer-aided merging of anatomical ontologies

4. (12:15-12:45) Ivan Popov, Irena Avdjieva, Elena Todorovska,
Meluleki Zikhali, Simon Griffiths, Dimitar Vassilev:
Extracting homoeologous genomic sequences from Next Generation
Sequencing reads - the challenge of the wheat genome

Lunch break 12:45 - 13:45

5. Valeriya Simeonova, Ivan Popov, Dimitar Vasilev (13:45-14:15)
Estimation of sequencing error rates present in genome databases

6. (14:15 -15:15) Student presentations

Discussions and coffee break - 15:15 - 16:00

7. (16:00-17:00)Prof. Ivan Ivanov (with a videoconference from Texas A&M University):
Bayesian network models for the purpose of drug intervention in cell
regulatory pathways

Closing 17:00