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At the University of Crete Medical School there have been concerted efforts to establish a multidisciplinary scientific environment which will foster excellence in research in areas of major biomedical importance. These efforts have been recognized by the European Commission and generously supported through the FP7 programme TransPOT (Translational Potential) which has enabled the establishment of core facilities in genomics and cell therapy providing unique research and health services locally, nationally and internationally. TransPOT has also funded the recruitment of more than 20 junior and senior scientists who have accelerated the integration of basic and clinical research and enriched our competitiveness and translational research capacity in human diseases.

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# "Applications of Bioinformatics in Molecular Biology" Symposium

20 & 21 November 2014,  
Post-graduate Building  
Amphitheatre, Medical  
School, University of  
Crete, Heraklion



University of Crete  
FACULTY OF MEDICINE

## Day 1: 20 November 2014 Symposium

### Time Subject / Speaker

*Registration - Coffee 10.00 -10:30*

10.30 *Opening - Welcome*

10.40 In silico tools and resources for identifying novel selective autophagy-associated proteins, *V. Promponas, University of Cyprus, Cyprus*

11.20 Applications of data and text mining of the biomedical literature to study gene and protein function, *M. Andrade, Max Delbrück Center for Molecular Medicine, Germany*

12.00 Text mining of biomedical literature for concept discovery and protein-protein interaction prediction, *I. Iliopoulos, Medical School, University of Crete, Greece*

*Lunch 12.40 -13.40*

13.40 Pathways, pangenomes and paleogenomes, *C. Ouzounis, Centre for Research and Technology-Hellas (CERTH), Greece*

### Time Subject / Speaker

14.20 Extracting complex events for hypothesis generation and pathway construction, *S. Ananiadou, University of Manchester, UK*

*Coffee -Break 15.00 -15.20*

15.20 Variant prioritization by genomic data fusion, *Y. Moreau, KU Leuven, ESAT/STADIUS, Belgium*

16.00 Medical data and text mining: Linking diseases, drugs, and adverse reactions, *L. J. Jensen, University of Copenhagen, Denmark*

*1<sup>st</sup> day Closing Remarks 16.40- 16.50*

*Closed Round Table 16.50-17.50*

## Day 2: 21 November 2014

Practical Course (participants are encouraged to bring their own laptops)

### Time Subject / Speaker

*Registration - Coffee 09.45 -10:15*

10.15 The STRING database and related tools, *L. J. Jensen, University of Copenhagen, Denmark*

### Time Subject / Speaker

11.00 Tools and services for biomedical text mining at the National Centre for Text Mining, *S. Ananiadou, University of Manchester, UK*

11.45 Using OnTheFly and BioTextQuest tools to mine literature and extract biological information from texts, *G. Pavlopoulos, Medical School, University of Crete, Greece*

*Lunch 12.30 -13.30*

13.30 Prioritizing genes and variants with Endeavour and eXtasy, *Y. Moreau, KU Leuven, ESAT/STADIUS, Belgium*

14.15 Tools that use MEDLINE to select bibliography, genes, chemicals, protein interactions, trends and referees, *M. Andrade, Max Delbrück Center for Molecular Medicine, Germany*

*Coffee -Break 15.00 -15.30*

15.30 Large-scale detection of repeats and compositionally biased regions in protein sequence data sets, *V. Promponas, University of Cyprus, Cyprus*

*2<sup>nd</sup> day Closing Remarks 16.40- 16.50*

*Closed Round Table 16.50-17.50*