

# Invitation

You are invited to the Workshop:  
***“Computational Approaches in Oncology:  
From Genes and Proteins to Macroscopic  
Tumor Growth”***

Place:  
**University of Cyprus  
New Campus  
Social Facilities Center (SFC) 3, Room: 101  
Nicosia, Cyprus**

Date:  
**Thursday, 12<sup>th</sup> of September 2013**

*Please RSVP by Tuesday, 10<sup>th</sup> September at [skevichr@ucy.ac.cy](mailto:skevichr@ucy.ac.cy)*

Η Πρόξη συγχρηματοδοτείται  
από την Ευρωπαϊκή Ένωση (ΕΠΠΑ)  
και από Εθνικούς Πόρους  
της Ελλάδας και της Κύπρου



ΕΥΡΩΠΑΪΚΗ ΕΝΩΣΗ



ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ



ΔΙΑΦΟΡΟΤΙΚΑ ΤΑΜΕΙΑ  
της Ευρωπαϊκής Ένωσης στην Κύπρο  
οι ιδέες μας, πράξη και ανάπτυξη



# Programme

09:00-09:10

## **Welcome and Introduction**

Georgios Mitsis

KIOS Research Center, Department of Electrical and Computer Engineering, University of Cyprus

09:10-09:40

## **Quantitative Phosphoproteomics Dissects Sensitization of Resistant Malignancies to Tyrosine Kinase Inhibitors and Defines Novel Therapeutic Targets**

*Andreani Odysseos – EPOS-lasis and University of Cyprus*

09:40-10:10

## **Cancer biomarker discovery using in vitro and in vivo models**

*Demetris Iacovides*

*Department of Biological Sciences, University of Cyprus*

10:10-10:40

## **Using Oncogenic Viruses to Understand the Relationship between Cancer and Stemness**

*Katerina Strati*

*Department of Biological Sciences, University of Cyprus*

10:40-11:00

## **Coffee Break**

11:00-11:30

## **High resolution optical coherence tomography imaging for cancer**

*Costas Pitris*

*KIOS Research Center, Department of Electrical and Computer Engineering, University of Cyprus*

11:30-12:00

**Employing in-vivo Molecular Imaging in Validating In Silico Tumor Growth models**

*Vangelis Sakkalis*

*Computational Medicine Laboratory, Institute of Computer Science,  
Foundation for Research and Technology - Hellas*

12:00-12:30

**ReEngineering the tumor microenvironment to optimize drug delivery**

*Triantafyllos Stylianopoulos*

*Department of Mechanical and Manufacturing Engineering, University of  
Cyprus*

12:30-14:00

**Lunch break**

14:00-14:30

**Graphical Models in Genomic Networks. Applications to Breast and Oral Cancer Data Analysis**

*Kalliopi Kalantzaki*

*Department of Electronic and Computer Engineering, Technical  
University of Crete*

14:30-15:00

**Modelling cancer progression in tumor-bearing mice:  
Experimental Data, Tumor Growth, Toxicity, and Treatment  
Planning**

*Marios Hadjiandreou*

*KIOS Research Center, Department of Electrical and Computer  
Engineering, University of Cyprus*

15:00-15:30

**Stochastic Models for Individualized Tumor Growth Prediction**

*Charalambos Loizides*

*KIOS Research Center, Department of Electrical and Computer  
Engineering, University of Cyprus*

15:30-15:50

**Discussion and Concluding Remarks**