

# 4<sup>th</sup> International Advanced Research Workshop on *In Silico* Oncology and Cancer Investigation

Athens, Greece, 8-9 September 2010

## Call for Papers



### Scope

Cancer is a *natural phenomenon* and as such it should be amenable to mathematical and computational description. Clinically driven complex multiscale cancer models can produce rather realistic spatio-temporal simulations of concrete clinical interventions such as radio-chemotherapy applied to individual patients. Clinical data processing procedures and computer technologies play an important role in this context. Following clinical adaptation and validation within the framework of clinico-genomic trials, models are expected to enhance individualized treatment optimization. The latter constitutes the long term goal of the emergent scientific, technological and medical discipline of *in silico* oncology. Treatment optimization is to be achieved through experimentation *in silico* i.e. on the computer. Moreover, provision of insight into tumour dynamics and optimization of clinical trial design and interpretation constitute short- and mid-term goals of this new domain. Researchers working either in the area of *in silico* oncology or in the broader cancer research domain yet with an interest in *computational* oncology are invited to submit short papers. The workshop is meant to be an excellent opportunity for both shaping and advancing the discipline.

### Organizing Committee

G. Stamatakos, PhD, *ICCS - National Technical University of Athens (GR)*, General Chair  
K. Marias, PhD, *Foundation for Research and Technology – Hellas (GR)*  
D. Dionysiou, PhD, *ICCS - National Technical University of Athens (GR)*  
N. Graf, MD, *University Clinic of Saarland (DE)*  
I. Kurnaz, PhD, *Yeditepe University (TR)*  
T. Deisboeck, MD, *Harvard Medical School (US)*  
M. Akay, PhD, *University of Houston (US)*  
N. Uzunoglu, PhD, *ICCS - National Technical University of Athens (GR)*



### Venue

Royal Olympic Hotel <http://www.royalolympic.com/>

### Important Dates

Paper submissions due (**EXTENDED DEADLINE**): May 5, 2010. Notification of acceptance (**NEW DATE**): June 10, 2010. Camera ready papers due (**NEW DATE**): June 25, 2010



### Instructions for Authors

Authors should submit a two-page manuscript in double-column format including authors' names, affiliations, and a short abstract. The IEEE-EMBS format should be followed (MS Word template `ieeeconf_A4.dot` for A4 paper)

<http://embs.paperecept.net/conferences/support/word.php#wordtemplates>

All correspondence including manuscript submission should be addressed to [gestam@central.ntua.gr](mailto:gestam@central.ntua.gr) and cc to [dimdio@esd.ece.ntua.gr](mailto:dimdio@esd.ece.ntua.gr). Further information is available at [www.4th-iarwisoci.iccs.ntua.gr](http://www.4th-iarwisoci.iccs.ntua.gr)

### Sponsors

The workshop is sponsored by the European Commission, Directorate-General for Information Society and Media, *Virtual Physiological Human* initiative through the ContraCancrum project

<http://www.contracancrum.eu/>. It is also endorsed by the International Federation for Medical and Biological Engineering (IFMBE) and technically co-sponsored by the Institute of Electrical and Electronics Engineers (IEEE), Engineering in Medicine and Biology Society (EMBS)

