

4th 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)*
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T. Deisboeck, MD, *Harvard Medical School (US)*
M. Akay, PhD, *Arizona State University (US)*
N. Uzunoglu, PhD, *ICCS - National Technical University of Athens (GR)*



Venue

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

Important Dates

Paper submissions due: April 20, 2010. Notification of acceptance: May 30, 2010

Camera ready papers due: June 15, 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 `ieeconf_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

(cc dimdio@esd.ece.ntua.gr). Further information will be available at 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)

