

ICT for BIO-Medical Sciences 2006

Information and Communication Technologies for **BIO**-Medical Sciences

"ICT-BIO" conference 2006 - 29-30 June 2006 - Charlemagne Building, Brussels

DRAFT AGENDA

http://ec.europa.eu/information_society/events/ict_bio_2006

Thursday 29th June

08:30 - 10:00	REGISTRATION COFFEE AND DEMONSTRATIONS (at the "Foyer" in front of Room S3)
10:15 - 11:00 Room S3 Floor 2	OPENING Chair: Peter Zangl , Deputy Director General, Information Society and Media DG Viviane Reding , Commissioner, Information Society and Media DG José Mariano Gago , Minister, Science, Technology and Higher Education, Portugal Jorgo Chatzimarkakis , Member of European Parliament
11:00 - 11:45	Keynote speaker: Denis Noble , Director, Computational Physiology, Oxford University "Virtual heart - current applications and challenges ahead"
11:45 - 12:45 Room S3 Floor 2	PLENARY PRESENTATIONS Chair: Frans de Bruïne , Director, ICT for Citizens and Business, Information Society and Media DG Francisco Gracia-Navarro , Director of National Institute of Health of Spain "Biomedical Informatics: Facilitating Genomic Medicine for Future Healthcare" Gabriel Krestin , Chairman, Research Committee, European Association for Radiology "Biomedical imaging: what is it, where does it go?"
12:45 - 14:00	LUNCH (catering will be available at the "Foyer" in front of Room S3) & DEMONSTRATIONS

A webcasting of the **Room S3** will be available during the two days of the conference. It will be accessible through the conference website:

http://ec.europa.eu/information_society/events/ict_bio_2006

<p>14:00 - 16:30</p>	<p>PARALLEL SESSIONS In each sessions: there will be at least 30mn discussion after the presentations</p>
<p>Room S1 floor 0</p>	<p>SESSION #1 Multilevel Modelling and Simulation of human physiology & disease related processes - Virtual Physiological Human</p> <p>Chair: Gérard Comyn, Head of Unit, ICT for Health, Information Society and Media DG</p> <p>Marco Viceconti, Istituti Ortopedici Rizzoli "Seeding the EuroPhysiome: a roadmap to the Virtual Physiological Human"</p> <p>Peter Hunter, University of Auckland "The Physiome Project with applications to healthcare"</p> <p>Catrin Bludszuweit-Philipp, Director, ASD Advance Simulation and Design GmbH "Multilevel modelling in the design of cardiovascular treatments"</p> <p>Hans Gregersen, University of Aalborg "The gastrointestinal system: an integrative approach"</p> <p>Nicholas Ayache, INRIA "Coupling Biomedical Images with Computational Human Models for quantitative and predictive medicine"</p> <p>Rapporteurs : Rod Hose, University of Sheffield</p>
<p>Room S3 floor 2</p>	<p>SESSION #2 BIO-Medical informatics</p> <p>Chair: Ilias Iakovidis, Deputy Head of Unit, ICT for Health, Information Society and Media DG</p> <p>Johan van der Lei, Erasmus University "Bioinformatics and Medical Informatics: Facing the interdisciplinary challenge"</p> <p>Fernando Martin-Sanchez, Institute Salud Carlos III "The SYMBIOmatics Study: Toward a New Research Agenda in Biomedical Informatics"</p> <p>Russ Altman, Stanford University "PharmGKB: The Pharmacogenetics and Pharmacogenomics Database"</p> <p>Scott Boyer, Astra Zeneca "Application of Biomedical Informatics in Drug Discovery"</p> <p>Dirk Colaert, AGFA HealthCare "Bringing the pieses together: the use of the Semantic Web to implement the 'continuum of healthcare'"</p> <p>Rapporteur: Dominic Clark, European Bioinformatics Institute</p>
<p>Room S2 floor 0</p>	<p>SESSION #3 Biomedical imaging</p> <p>Chair: Philippe Jehenson, Biotechnology and applied genomics, Research DG</p> <p>Jan Pieter Abrahams, Leiden Institute of Chemistry "Zooming in on life: combining bioimaging technologies to get the full picture"</p> <p>Françoise Soussaline, IMSTAR SA "PathfinderTM, an innovative image cytometry platform for high-throughput, high-content screening in drug discovery, toxicology, Molecular Cytogenetics and Cyto-Pathology Diagnostics"</p> <p>Arne Hengerer, Siemens Medical Solutions "New Hybrid Imaging Systems and IT Platforms for Molecular Medicine"</p> <p>Paul Smit, SVP Strategy and Business Development, Philips Medical Systems "Imaging and ICT: Connecting the Care Cycle"</p> <p>Leonard Fass, GE Healthcare "Converging Technologies in Disease Management"</p> <p>Rapporteur: Andreas Jacobs, University of Köln, Society for Molecular Imaging</p>

16:30-17:00	COFFEE (at the "Foyer" in front of Room S3 and in front of Rooms S1-S2) & DEMONSTRATIONS IN THE FOYER S3
17:00-18:30	CONCERTATION MEETINGS with projects of Information Society & Media and Research DGs
Room S1 floor 0	Group 1: Simulation and modelling of human physiology & disease related processes Chair: Jean-Marie Auger, ICT for Health, DG Information Society and Media & Henriette Van Eijl, Fundamental genomics, DG Research
Room S3 floor 2	Group 2: Integrated biomedical information for better healthcare Chair: Alessandra Martini, ICT for Health, DG Information Society and Media &
Room S2 floor 0	Group 3: HealthGrid - Health information infrastructure, applications and biomedical imaging Chair: Joël Bacquet, ICT for Health, DG Information Society and Media & Philippe Jehenson, Biotechnology and applied genomics, DG Research
18:30	RECEPTION – (Cocktails will be available at the "Foyer" in front of Room S3)

The **Room S4** will be available (non bookable) on both days (except 29/06 morning) for use for one to one or small group meetings.

Friday, 30th June 2006

08:15 - 09:00	REGISTRATION & COFFEE
09:00 - 10:30	PLENARY PRESENTATIONS Chair: Stephane Hogan , Head of Unit, Biotechnology and applied genomics, Research DG Room S3 floor 2 Jos Vander Sloten , Katholieke Universiteit Leuven & President of EAMBES (European Alliance for Medical and Biological Engineering and Science) "Engineering for Health: Challenges for improved Health Care Delivery" Bob Jones , CERN, Director of EGEE Graham Cameron , Associate Director, European Bioinformatics Institute "Biomolecular information and its interface to biomedical information - exploiting European Synergies"
10:30 - 10:45	COFFEE (at the "Foyer" in front of Room S3 and in front of Rooms S1-S2)

<p>10:45 - 13:00</p>	<p>PARALLEL SESSIONS In each sessions: there will be at least 30mn discussion after the presentations</p>
<p>Room S1 Floor 0</p>	<p>SESSION #4 Modelling and simulation of human physiology and disease related processes – Systems biology</p> <p>Chair: Bernard Mulligan, Acting Head of Unit, Fundamental genomics, Research DG</p> <p>Anna Tramontano, University of Rome "La Sapienza" "From models to experiments and back" – co-rapporteur</p> <p>Luis Serrano, EMBL "Modelling tools for modifying protein interactions and pathways"</p> <p>Martin Kuiper, Ghent University "Modelling the regulation of cell division"</p> <p>Ralf Herwig, Max Planck Institute for Molecular Genetics "Resources, methods and tools for modelling disease-related processes"</p> <p>Peter Tass, Research Center Juelich "Model based development of brain stimulation techniques"</p> <p>Zvia Agur, Optimata ltd & president of Institute for Medical BioMathematics (IMBM), Israel "Novel Virtual Patient Technology for personalizing single-agent and combination therapies of chemotherapeutic and targeted drugs and for accelerating drug development"</p> <p>Rapporteur: Gordon Clapworthy, University of Luton</p>
<p>Room S3 Floor 2</p>	<p>SESSION #5 HealthGrid – from infrastructures and databases to applications</p> <p>Chair: Mario Campolargo, Head of Unit, Research Infrastructure, Information Society and Media DG</p> <p>Ignacio Blanquer, Universita Politecnica de Valencia "Challenges and Opportunities for HealthGrid"</p> <p>Luciano Milanesi, ITB-CNR "New ICT challenges for the Biomedical and Biotechnology Applications"</p> <p>Norbert Graf, Universität des Saarlandes "The benefits of Grid technologies to clinical trials"</p> <p>Peter van der Spek, Bioinformatics, ErasmusMC "Molecular Imaging applications in neurodevelopment pathway discovery"</p> <p>Hans Doebbeling, DANTE "GÉANT2 - a building block for European Health Grids"</p> <p>Martin Bech, UNI-C the Danish National Research and Education Network "HealthGrid an opportunity to interconnect all parts of health research and healthcare - Europe wide"</p> <p>Rapporteur : Vincent Breton, CNRS</p>
<p>Room S2 Floor 0</p>	<p>SESSION #6 Bio-Inspired ICT</p> <p>Chair: Patrick van Hove, Head of Sector, Proactive Initiatives, Future & Emerging Technologies, Information Society and Media DG</p> <p>Alain Berthoz, Collège de France "The brain, space and movement : simplifying priciples for reduction of neurocomputation"</p> <p>Keith Firman, University Portsmouth "Building a nanoactuator: a biological molecular motor that can manipulate objects on the microscale"</p> <p>Christoph von der Malsburg, Institut für Neuroinformatik, Ruhr-Univ. Bochum "Information Technology Beyond the Complexity Barrier"</p> <p>Norman Packard, Protolife "IT Potential of Artificial Cells"</p> <p>Dario Floreano, Ecole Polytechnique Federale Lausanne "Swarm Intelligence and Communication in Robots and Animals"</p> <p>Rapporteur : Sten Grillner, Department of Neuroscience Karolinska Institutet</p>

13:15 - 14:15	LUNCH (catering will be available at the "Foyer" in front of Room S3)
14:15 - 15:30 Room S3 Floor 2	CONFERENCE CONCLUSION AND PRESENTATION OF THE SUMMARIES OF DIFFERENT PARALLEL SESSIONS BY THE RAPPORTEURS
15:30 - 15:45 Room S3 Floor 2	CLOSING OF THE CONFERENCE