

## Workshop to honor Prof. Yannis Missirlis

Friday 7<sup>th</sup> July (All Day)

<b>Workshop to honor Prof. Yannis Missirlis</b> <b>Session I: Mechanics and simulations in biological systems</b> <i>Chair: A. Sendemir-Urkmez, K. Komvopoulos</i> <i>Room: Crystal Hall</i>
09:00-09:10 <b>Introduction</b>
09:10-09:40 Invited <b>Photonic Nano-Sensor Reports Dynamics of Interactions between Single Molecular Ligand or Pathogen and a Live Cell with nm Precision in 3D at &gt;100 Hz</b> E. Evans, The University of British Columbia & Boston University, USA
09:40-10:10 <b>Intersection of Nanotechnology and Cell Mechanics</b> K. Komvopoulos, University of California, Berkeley
10:10-10:40 <b>Mechanical loading and cell differentiation</b> M. Alini, AO Foundation, Switzerland
10:40-11:10 Invited <b>Dielectric properties and non thermal effects of microwaves on lysozyme studied with molecular dynamics simulations</b> G. Papadopoulos, University of Thessaly, Greece
<b>Workshop to honor Prof. Yannis Missirlis</b> <b>Session II: Tissue and Organ Engineering</b> <i>Chair: M. Chatz Nikolaidou, S. Korossis</i> <i>Room: Crystal Hall</i>
11:30-12:00 <b>Development of a Tissue-Engineered Tumor Model</b> A. Mikos, Rice University, USA
12:00-12:20 <b>Engineering Responsive and Biomimetic Hydrogels for Biomedical Therapeutic and Diagnostic Applications (BIOGEL)</b> C. Kiparissides, CPERI-CERTH, Greece
12:20-12:40 <b>Endothelialisation of Gas Exchange Membranes Coated with TiO<sub>2</sub> Nanoparticles for the Development of a Biohybrid Lung</b> S. Korossis, Hannover Medical School, Germany
12:40-13:00 <b>Biological and mechanical aspects in bone tissue engineering</b> M. Chatz Nikolaidou, University of Crete, Greece
13:00-13:20 <b>Guiding neural cell behaviour in vitro through chemical and mechanical signals</b> A. Sendemir-Urkmez, Ege University, Turkey
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<p>Session III: Interactions on Functional Bio-Nano-Interphases  Chair: Prof. T. Choli Papadopoulou, Dr. Maria Katsikogianni  Room: Crystal Hall</p>
<p>15:00-15:30  <b>Prof. Erhan Piskin, Hacettepe University, Turkey</b>  Bacteriophages with or without plasmonic nanoparticles are potential active agents for diagnosis and therapy of bacterial infections/contaminations</p>
<p>15:30-16:00  <b>Dr. Artemis Stamboulis, University of Birmingham, UK</b>  TBA</p>
<p>16:00-16:20  <b>Prof. Symeon Agathopoulos, University of Ioannina, Greece</b>  From the macroscopic thermodynamics of bio-interfaces to the nano-aspects of regenerative medicine</p>
<p>16:20-16:40  <b>Dr. Alexandros Repanas, Martin-Luther-Universität Halle-Wittenberg, Germany</b>  Cell instructive surfaces for implantable devices</p>
<p>16:40-17:00  <b>Dr. Maria Katsikogianni, University of Bradford, UK</b>  Next Generation Antimicrobial Devices and Efficacy Testing in the Scope of iPROMEDAI COST Action TD1305</p>
<p>17:00-17:20  Closing Remarks by Prof. Y. Missirlis</p>