

## POSTER PRESENTATION PROGRAM

POSTER SESSIONS will take place DAY 2 and DAY 3 of the Conference  
 POSTER SESSION 1: 18:00 – 20:00 & POSTER SESSION 2: 18:00 – 20:00  
 (as shown in the main NANOBIO2018 Program)

The NanoBio2018 Poster Committee will take the decision for the BEST POSTER PRESENTATION!

**POSTER SESSION 1**  
**Tuesday, 25<sup>th</sup> September 2018**

**POSTER SESSION 2**  
**Wednesday, 26<sup>th</sup> September 2018**

WS1: P1 up to P25  
 WS2: P1 up to P3  
 WS3: P1 up to P10  
 WS4: P1 up to P4  
 WS5: P1 up to P8

WS1: P26 up to P50  
 WS2: P5 up to P6  
 WS3: P11 up to P20  
 WS4: P5 up to P8  
 WS5: P9 up to P16

## WORKSHOP 1

### NANOBIMATERIALS AND NANOMEDICINE

#### Composite active surfaces for biosensing applications

V. Dinca1\*, A. Palla Papavlu1, A. Vasilescu2, M. Filipescu1, S. Brajnicov1, A. Bonciu1,2 and M. Dinescu1  
 1National Institute for Lasers, Plasma and radiation Physics, Bucharest, Romania  
 2International Center of Byodinamics, Bucharest, Romania

#### Effect of Myoglobin on Photoluminescence of ZnO-Gd2O3 Films

I.A. Hayrullina1\*, T.F. Sheshko1, I.A. Nagovitsyn2,3, G.K. Chudinova2,4, A.G. Cherednichenko1, E.A. Sarycheva1  
 1RUDN University - Peoples' Friendship University of Russia, Moscow Miklukho-Maklaya str.6, Moscow, Russia,  
 2Natural Science Center of General Physics Institute RAS, Moscow, Russia  
 3Semenov Institute of Chemical Physics RAS, Moscow, Russia  
 4National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Moscow, Russia

#### Nanoparticle-mediated Enzyme Replacement Therapy and Autophagy Modulation: a new perspective for Krabbe disease

Ambra Del Grosso 1,2\*, Lucia Angella2, Marianna Galliani 2,3, Nadia Giordano2,4, Ilaria Tonazzini1, Melissa Santi3, Matteo Caleo2,4, Giovanni Signore3 and Marco Cecchini1,2.  
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	<p>3 Center for Nanotechnology Innovation@NEST, Istituto Italiano di Tecnologia, Piazza San Silvestro 12, 56127 Pisa (ITALY) 4 CNR Neuroscience Institute, via G. Moruzzi 1, 56124 Pisa, (ITALY)</p>
WS1-P4	<p><b>Gold Nanoparticles Against Clinically Isolated Pathogens</b> Rokas Žalneravičius<sup>1, 2*</sup>, Arūnas Jagminas<sup>1</sup>, Marija Kurtinaitienė<sup>1</sup>, Vaclovas Klimas<sup>1</sup> and Algimantas Paškevičius<sup>3</sup> 1State Research Institute Centre for Physical Sciences and Technology, Vilnius, Lithuania 2Department of Chemistry and Bioengineering, Vilnius Gediminas Technical University, Vilnius, Lithuania 3Laboratory of Biodeterioration Research, Nature Research Centre, Vilnius, Lithuania</p>
WS1-P5	<p><b>Silver Nanowire Endoscopy for Single-Cell Investigation</b> Monica Ricci<sup>1*</sup>, Beatrice Fortuni<sup>1</sup>, Tomoko Inose<sup>2</sup>, Susana Rocha<sup>1</sup> and Hiroshi Uji-i<sup>1,2</sup> 1KU Leuven, Celestijnenlaan 200F 3001 Leuven, Belgium 2RIES, Hokkaido University, Sapporo, 001-0020, Japan</p>
WS1-P6	<p><b>Probing surface-driven interactions of fluorescently labeled hyaluronic acid with nanomaterials</b> Liviana Mummolo<sup>*</sup>, Damiano Genovese, Francesco Palomba, Luca Prodi University of Bologna, Bologna, Italy</p>
WS1-P7	<p><b>SERS-based microfluidic chips for sensitive label-free detection of miRNAs</b> Chiadò A.1<sup>*</sup>, Novara C.1, Paccotti N.1, Condorelli G.2,3, De Franciscis V.3, Rivolo P.1, Geobaldo F.1, and Giorgis F.1 1Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy 2Institute of Endocrinology and Experimental Oncology of Italian National Research Council, Naples, Italy 3Department of Molecular Medicine and Medical Biotechnology, "Federico II" University of Naples, Naples, Italy</p>
WS1-P8	<p><b>Phage-based capture and concentrating system for single step detection of pathogens in liquid samples</b> Domenico Franco<sup>1*</sup>, Sebastiano Trusso<sup>2</sup>, Laura M. De Plano<sup>3</sup>, Enza Fazio<sup>1</sup>, Maria G. Rizzo<sup>3</sup>, , Santina Carnazza<sup>3</sup>, Fortunato Neri<sup>1</sup> and Salvatore P. P. Guglielmino<sup>3</sup> 1 Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Messina, Italy 2IPCF-CNR Institute for Chemical-Physical Processes, Viale Ferdinando Stagno d'Alcontres 37, 98158, Messina, Italy 3Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy</p>
WS1-P9	<p><b>In vivo Hepatotoxicity and its Molecular Mechanisms of Gd<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup> Dual-modal Nanoprobe</b> Cunjing Zheng<sup>1</sup>, Xiumei Tian, Fukang Xie<sup>*</sup>, Li Li Department of Histology and Embryology, Zhongshan School of Medicine, Sun Yat-san University, Guangzhou 510080, China</p>
WS1-P10	<p><b>Downregulation of receptor for advanced glycation end products (RAGE) in the aorta of APOE-deficient mice using P-selectin targeted RAGE-shRNA lipoplexes</b> Cristina Ana Constantinescu<sup>1*</sup>, Elena-Valeria Fuior<sup>1</sup>, Daniela Rebleanu<sup>1</sup>, Geanina Voicu<sup>1</sup>, Mariana Deleanu<sup>1</sup>, Monica Tucureanu<sup>1</sup>, Elena Butoi<sup>1</sup>, Ileana Manduteanu<sup>1</sup>, Virginie Escriou<sup>2,3,4,5</sup>, Maya Simionescu<sup>1</sup>, Manuela Calin<sup>1</sup></p>

	<p>1Institute of Cellular Biology and Pathology "Nicolae Simionescu", Bucharest, Romania, 2CNRS, Unité de Technologies Chimiques et Biologiques pour la Santé (UTCBS) UMR 8258, Paris, France, 3INSERM, UTCBS U 1022, Paris, France, 4Université Paris Descartes, Sorbonne-Paris-Cité University, UTCBS, Paris, France, 5Chimie ParisTech, PSL Research University, UTCBS, Paris, France</p>
WS1-P11	<p><b>Studies on transfection efficiency and toxicity of different nanocarriers of shRNA-expressing plasmid on human valvular interstitial cells</b>            Daniela Rebleanu<sup>1</sup>, Cristina Ana Constantinescu<sup>1</sup>, Geanina Voicu<sup>1</sup>, Agneta Simionescu<sup>1,2</sup>, Ileana Manduteanu<sup>1</sup>, Manuela Calin<sup>1*</sup>  <sup>1</sup>Institute of Cellular Biology and Pathology "Nicolae Simionescu" of Romanian Academy, Bucharest, Romania  <sup>2</sup>Department of Bioengineering, Clemson University, United States of America</p>
WS1-P12	<p><b>Nanopatterns of Surface-bound ephrinB1 Ligands produce Multivalent Effects on EphB2 Receptor Clustering</b>            Verónica Hortigüela<sup>1</sup>, Enara Larrañaga<sup>1*</sup>, Francesco Cutrale<sup>2</sup>, Anna Seriola<sup>3</sup>, María García-Díaz<sup>1</sup>, Anna Lagunas<sup>4,1</sup>, Jordi Andilla<sup>5</sup>, Pablo Loza-Alvarez<sup>5</sup>, Josep Samitier<sup>1,4,6</sup>, Samuel Ojosnegros<sup>2</sup>, Elena Martínez<sup>1,4,6</sup>  <sup>1</sup>Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain  <sup>2</sup>University of Southern California, Translational Imaging Center, Los Angeles, CA, USA  <sup>3</sup>Center of Regenerative Medicine in Barcelona, Barcelona, Spain  <sup>4</sup>Centro de Investigación Biomédica en Red (CIBER), Madrid, Spain  <sup>5</sup>ICFO-Institut de Ciències Fotoniques, Castelldefels, Spain  <sup>6</sup>Dep. of Electronics and Biomedical Engineering, University of Barcelona (UB), Barcelona, Spain</p>
WS1-P13	<p><b>Poly(ethylene oxide) as Protective Barrier of Carbon Nanotubes against Protein Adsorption-Molecular Dynamics Study</b>            Z. Benková<sup>1,2*</sup>, P. Čakánek<sup>1*</sup>, M. N. Dias Soeiro Cordeiro<sup>2</sup>  <sup>1</sup>Polymer Institute, Slovak Academy of Sciences, Dúbravská cesta 9, 845 41 Bratislava, Slovakia  <sup>2</sup>LAQV@REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Rua do Campo Alegre 687, 4168-007 Porto, Portugal</p>
WS1-P14	<p><b>Solvent Mediated Effects in Nanoassembly of Amyloidogenic Peptides</b>            Nikolay Blinov<sup>1*</sup> and Andriy Kovalenko<sup>1</sup>  <sup>1</sup>University of Alberta and Nanotechnology Research Centre, Edmonton, Canada</p>
WS1-P15	<p><b>Antibody-free magnetic lateral flow immunoassay for quantitative amyloid beta detection</b>            Monserrat Rivas<sup>1</sup>, Jose Carlos Martínez<sup>1</sup>, María Salvador<sup>1</sup>, Amanda Moyano<sup>2</sup>, María C. Blanco-López<sup>2</sup>, Apostolos C. Tsolakis<sup>3</sup>, Eleftherios Halevas<sup>3</sup> and George Litsardakis<sup>3</sup>  <sup>1</sup>Departamento de Física &amp; IUTA, Universidad de Oviedo, Gijón, Spain  <sup>2</sup>Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain  <sup>3</sup>Department of Electrical &amp; Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece</p>

WS1-P16	<p><b>Immobilization and Electrochemical Behavior of Hemoglobin on Hybrid Graphite/TiO<sub>2</sub> electrodes</b>  Efstathios Deskoulidis<sup>1*</sup>, Vasilios Georgakilas<sup>1</sup> and Emmanuel Topoglidis<sup>1</sup>  <sup>1</sup>Department of Materials Science, University of Patras, Rion 26504, Greece</p>
WS1-P17	<p><b>Self-assembly of anionic liposomes on cationic biodegradable polymer particles</b>  Andrey Sybachin*, Vasilij Spiridonov, Olga Novoskoltseva, Nikolay Melik-Nubarov and Alexander Yaroslavov  <sup>1</sup>Lomonosov Moscow State University, Chemistry Department Polymer Division, Russia</p>
WS1-P18	<p><b>A novel characterization of silver nanoparticles using Artemisia Annua: green synthesis, characterization and anti-malarial activity</b>  Elisabetta Avitabile<sup>1*</sup>, Cristina D'Avino<sup>1</sup>, Ioannis Tsamesidis<sup>1</sup>, Serenella Medici<sup>2</sup> and Antonella Pantaleo<sup>1</sup> <sup>1</sup>Department of Biomedical Sciences, University of Sassari, Italy <sup>2</sup>Department of Chemistry and Pharmacy, University of Sassari, Sassari, Italy</p>
WS1-P19	<p><b>Enhanced Vibrational Circular Dichroism signal as a result of interaction between water soluble gold nanocluster and CoCl<sub>2</sub></b>  Sarita Bhattacharya<sup>1*</sup> and Thomas Bürgi<sup>1</sup>  <sup>1</sup>Department of Physical Chemistry, University of Geneva, Geneva, Switzerland</p>
WS1-P20	<p><b>Effect of CNT with mechanical strain on cell differentiation</b>  Eliška Mázl Chánová<sup>1,2*</sup>, Petr Knotek<sup>3</sup>, Jan Svoboda<sup>2</sup>, Petr Kutálek<sup>4</sup>, Jana Kredatusová<sup>2</sup>, Dana Kubies<sup>2</sup> and Ying Yang<sup>1</sup>  <sup>1</sup>Institute for Science&amp;Technology in Medicine, Keele University, Stoke-on-Trent, UK  <sup>2</sup>Institute of Macromolecular Chemistry AS CR, Prague, CR  <sup>3</sup>Dpt. of General and Inorganic Chemistry, University of Pardubice, Pardubice, CR  <sup>4</sup>Joint Laboratory of Solid State Chemistry of IMC AS CR and University of Pardubice, Pardubice, CR</p>
WS1-P21	<p><b>Characterization of magnetic nanoparticles coated with chitosan derivatives for tissue engineering application</b>  Adriana Gilarska<sup>1,2*</sup>, Sylwia Fiejdasz<sup>1</sup>, Szczepan Zapotoczny<sup>2</sup>, Maria Nowakowska<sup>2</sup>  and Czesław Kapusta<sup>1</sup>  <sup>1</sup>AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Mickiewicza 30, 30-059 Kraków, Poland  <sup>2</sup>Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, 30-387 Kraków, Poland</p>
WS1-P22	<p><b>VCAM-1 TARGETED NARINGENIN-LOADED LIPID NANOEMULSIONS REDUCE MONOCYTE ADHESION TO ACTIVATED ENDOTHELIAL CELLS</b>  Elena-Valeria Fuior<sup>1*</sup>, Geanina Voicu<sup>1</sup>, Mariana Deleanu<sup>1,2</sup>, Daniela Rebleanu<sup>1</sup>, Cristina Ana Constantinescu<sup>1,3</sup>, Florentina Safciuc<sup>1</sup>, Maya Simionescu<sup>1</sup>, Manuela Calin<sup>1</sup>  <sup>1</sup>Institute of Cellular Biology and Pathology "Nicolae Simionescu" of the Romanian Academy, Bucharest, Romania  <sup>2</sup> UASVM, Faculty of Biotechnologies, Bucharest, Romania  <sup>3</sup>UASVM, Faculty of Veterinary Medicine, Bucharest, Romania</p>

WS1-P23	<p align="center"><b>Effects of Ag/TiO<sub>2</sub> and Ag/N-TiO<sub>2</sub> nanoparticles on human lung epithelial cells</b></p> <p align="center">Daniela Rebleanu<sup>1*</sup>, Cristina Ana Constantinescu<sup>1</sup>, Geanina Voicu<sup>1</sup>, Mariana Deleanu<sup>1</sup>, Carmen Gaidau<sup>2</sup>, Madalina Ignat<sup>2</sup>, Aurora Petica<sup>2</sup>, Manuela Calin<sup>1</sup></p> <p align="center">1 Institute of Cellular Biology and Pathology “Nicolae Simionescu” of Romanian Academy, Bucharest, Romania; 2R&amp;D National Institute for Textiles and Leather (INCDTP)–Leather and Footwear Research Institute (ICPI) Division, Bucharest, Romania</p>
WS1-P24	<p align="center"><b>Effect of Carbon Nanotubes on Zirconium Ceramics Used for Biomedical Applications</b></p> <p align="center">Sergei Ghyngazov<sup>1*</sup>, Sergei Shevelev<sup>1</sup></p> <p align="center">1National Research Tomsk Polytechnic University, Tomsk, Russia</p>
WS1-P25	<p align="center"><b>Synthesis, physico-chemical characterization and anticancer potential of flavonoid chrysin-loaded hybrid PCL and PHB nano-formulations.</b></p> <p align="center">E. Halevas<sup>1*</sup>, C. Kokotidou<sup>2</sup>, A. Mitraki<sup>2</sup>, G. Litsardakis<sup>1</sup>, A. Pantazaki<sup>3</sup></p> <p align="center">1 Department of Electrical &amp; Computer Engineering, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece. 3 Department of Materials Science and Technology, University of Crete, 70013, Heraklion, Greece 2 Department of Chemistry, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece.</p>
WS1-P26	<p align="center"><b>Graphene Acid: Ready-to-derivatize Biocompatible Nanocarrier Towards Biomedical Applications</b></p> <p align="center">Jan Belza<sup>1*</sup>, Katerina Polakova<sup>1</sup>, Tomas Malina<sup>1</sup>, Aristides Bakandritsos<sup>1</sup>, Veronika Sedajova<sup>1</sup> and Radek Zboril<sup>1</sup></p> <p align="center">1Regional Centre of Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacky University Olomouc, 17. Listopadu 1192/12, 771 46 Olomouc, Czech Republic</p>
WS1-P27	<p align="center"><b>Addition of graphene nanoparticles to PDMS matrix significantly improve hemocompatibility of samples</b></p> <p align="center">Nina Recek<sup>1*</sup>, Karthika Prasad<sup>2</sup>, Alenka Vesel<sup>1</sup></p> <p align="center">1Department of Surface Engineering and Optoelectronics, Jožef Stefan Institute, Ljubljana SI-1000, Slovenia 2Science and Engineering Faculty, Queensland University of Technology, Brisbane QLD 4000, Australia</p>
WS1-P28	<p align="center"><b>Interactions of mitoxantrone-modified superparamagnetic iron oxide nanoparticles with biomimetic membranes and cells.</b></p> <p align="center">Dorota Nieciecka<sup>1*</sup>, Krystyna Kijewska<sup>1</sup> and Paweł Kryszynski<sup>1</sup></p> <p align="center">1Department of Chemistry, University of Warsaw, Pasteur 1, 02-093 Warsaw, Poland</p>
WS1-P29	<p align="center"><b>Fe<sub>3</sub>O<sub>4</sub> nanoparticles formation by ball milling of hematite</b></p> <p align="center">Elena Lysenko*, Anatoliy Surzhikov</p> <p align="center">Tomsk Polytechnic University, Tomsk, Russia</p>

WS1-P30	<p align="center"><b>Gold Coated Cobalt Ferrite Nanoparticles via Methionine Inducted Reduction</b>                  Agne Mikalauskaite1*, A. Jagminas 1                  1State research institute Center for Physical Sciences and Technology, Vilnius, Lithuania</p>
WS1-P31	<p align="center"><b>Magnetic field sensible nanocomposites based on cross-linked sodium alginate and maghemite</b>                  Vasily Spiridonov*, Andrey Sybachin, Irina Panova, Olga Novoskoltseva and Alexander Yaroslavov                  1Lomonosov Moscow State University, Chemistry Department Polymer Division, Russia</p>
WS1-P32	<p align="center"><b>Fluorescent Carbogenic Nanoparticles</b>                  Dr Marta Krysmann1*                  1 University of Central Lancashire, School of Pharmacy and Biomedical Sciences, Preston, UK</p>
WS1-P33	<p align="center"><b>PEGylating magnetic nanocrystals clusters through electrostatic interactions</b>                  A. Kolokithas-Ntoukas1*, G. Mountrichas2, S. Pispas2, R. Zboril3, K. Avgoustakis4, A. Bakandritsos3                  1University of Patras, Materials Science Dept., Rio, Greece                  2Theoretical and Physical Chemistry Institute N.H.R.F., Athens, Greece                  3Regional Centre of Advanced Technologies and Materials, Olomouc, Czech Republic                  4University of Patras, Pharmacy Dept., Rio, Greece</p>
WS1-P34	<p align="center"><b>Multiplex analysis of tumor markers using surface enhanced Raman spectroscopy (SERS).</b>                  Anna Balzerová1, Václav Ranc1, Radek Zbořil1                  Regional Centre of Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacký University in Olomouc, 17 listopadu 12, CZ-77146 Olomouc, Czech Republic.</p>
WS1-P35	<p align="center"><b>Evaluation of milk-derivate exosomes as natural liposomes in theragnostic.</b>                  González M.I.1,2, Sobrino G.1,2, Cañadas M. 1, Desco M.1,2,3,4, Salinas B.1,2,3                  (1) Inst. de Investig. Sanitaria Gregorio Marañón, Experimental Medicine and Surgery Unit, Madrid, Spain                  (2) Centro Nacional de Investigaciones Cardiovasculares Carlos III, Advanced Imaging Unit, Madrid, Spain                  (3) Universidad Carlos III de Madrid, Bioengineering and Aerospace Engineering Dept, Madrid, Spain                  (4) Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Spain</p>
WS1-P36	<p align="center"><b>In situ synthesis of silver nanoparticles on organic and inorganic colloidal particles for theranostic applications</b>                  Bogdan Parakhonskiy1,2*, Anatolii Abalymov1, Ekaterina Lengert1,2, Maria Saveleva1,2, Alexey Yashchenok3, Yulia Svenskaya2, Andre Skirtach1                  1Ghent University, Ghent, 9000, Belgium                  2 Saratov State University, Saratov, 410012, Russia</p>

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WS1-P37	<p><b>Ultrasound-responsive Smart Liposomes as Theranostic agents for Treatment of Glioblastoma multiforme</b>  Rishi Rajat Adhikary<sup>1*</sup> and Rinti Banerjee<sup>1</sup>  <sup>1</sup>Indian Institute of Technology Bombay, Mumbai, India</p>
WS1-P38	<p><b>Antibacterial Layer-by-Layer assemblies based on Graphene</b>  Ella Gibbons<sup>1</sup>, Antonios Kelarakis<sup>2</sup>, Marta Krysmann<sup>1</sup>  University of Central Lancashire, Preston, England  <sup>1</sup>School of Pharmacy and Biomedical Sciences, University of Central Lancashire,  Preston, United Kingdom  <sup>2</sup>School of Physical Sciences and Computing, University of Central Lancashire,  Preston, United Kingdom</p>
WS1-P39	<p><b>Production of antibacterial polymeric materials</b>  Graham M Reid<sup>1*</sup>, Shauna Flynn<sup>1,2</sup>, Laura Quinn<sup>2</sup>, Eoin Casey<sup>2</sup>, Susan Mulansky<sup>3</sup> and Susan M Kelleher<sup>1</sup>  <sup>1</sup>School of Chemistry, University College Dublin, Dublin 4, Ireland  <sup>2</sup>School of Bioprocessing Engineering, University College Dublin, Dublin 4, Ireland  <sup>3</sup>Institute of Food and Biochemical Engineering, Technische Universität Dresden</p>
WS1-P40	<p><b>Shell-dependent antimicrobial efficiency of cobalt ferrite nanoparticles</b>  Simonas Ramanavicius<sup>1*</sup>, Rokas Zalneravicius<sup>1</sup> and Arunas Jagminas<sup>1</sup>  <sup>1</sup>State research institute Center for Physical Sciences and Technology, Vilnius, Lithuania</p>
WS1-P41	<p><b>Fe-doped C-dots combining exceptional optical, magnetic and antimicrobial properties</b>  Joanna Stachowska<sup>1</sup>, Antonios Kelarakis<sup>2*</sup>, Marta Krysmann<sup>1</sup>  <sup>1</sup>School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston, United Kingdom  <sup>2</sup>School of Physical Sciences and Computing, University of Central Lancashire, Preston, United Kingdom</p>
WS1-P42	<p><b>Preparation and characterization of Pistacia lentiscus var. Chia essential oil-loaded poly(lactic acid) nanoparticles as novel wound healing agent</b>  I. Vrouvaki<sup>1*</sup>, E. Koutra<sup>2</sup>, M. Kornaros<sup>2</sup>, K. Avgoustakis<sup>1</sup>, F. N. Lamari<sup>1</sup>, and S. Hatziantoniou<sup>1</sup>  <sup>1</sup>University of Patras, Department of Pharmacy, Patras, Greece  <sup>2</sup>University of Patras, Department of Chemical Engineering, Patras, Greece</p>

WS1-P43	<p><b>Polysaccharides-based Capsules Loaded with Magnetic Nanoparticles</b>            Elżbieta Gumieniczek-Chłopek 1,2*, Joanna Odrobińska2, Czesław Kapusta1, Szczepan Zapotoczny2            1 Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Cracow, Poland            2 Faculty of Chemistry, Jagiellonian University, Cracow, Poland</p>
WS1-P44	<p><b>Designing of Highly Programmable and Modular Nanorobotic Platform for Smart Drug Delivery</b>            Soumyananda Chakraborti1* and Jonathan G Heddle1            1Malopolska Centre of Biotechnology, Jagiellonian University, Krakow, Poland</p>
WS1-P45	<p><b>Electrospun Nanofibers as Controlled-Release Carriers of Echinochrome A</b>            Stefanos Kikionis1, Elena A. Vasileva2, Natalia P. Mishchenko2, Sergey A. Fedoreyev2, Vassilios Roussis1 and Efstathia Ioannou1*            1Section of Pharmacognosy and Chemistry of Natural Products, Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece            2G.B. Elyakov Pacific Institute of Bioorganic Chemistry, Far-Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia</p>
WS1-P46	<p><b>Injectable Dual release Nanoformulation based Hydrogel for Blood Borne Bacterial Infections</b>            Vimal Rohan K 1*, Rohit Srivasatava2*            1Academy of Medical Sciences, Pariyaram, Kerala, India            2Indian Institute of Technology, Bombay, India</p>
WS1-P47	<p><b>Nanoengineered Dual Release Graft for Pain and Inflammation Management in Osteoarthritis</b>            Bavya M C1*, Rohit Srivasatava2*            1,2Indian Institute of Technology, Bombay, India</p>
WS1-P48	<p><b>Promiscuous phage-peptide as possible approach to a multiple drug targeted therapy</b>            Laura M. De Plano1*, Domenico Franco2, Maria G. Rizzo1, Santina Carnazza1, Marco S. Nicolò1 and Salvatore P. P. Guglielmino1            1 Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166, Messina, Italy            2Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166, Messina, Italy</p>
WS1-P49	<p><b>Biomonitoring air pollution in leaves of carob tree</b>            Sophia Papadopoulou*, Maria-Sonia Meletiou-Christou2, Sophia Rhizopoulou3            1Department of Botany, Faculty of Biology, National and Kapodistrian University of Athens, Athens 15781, Greece</p>



<p>WS1-P50</p>	<p><b>Synthesis of new materials containing ZnO doped particles for purification of waste waters</b>  Viorica-Elena Podasca<sup>1*</sup>, Mariana-Dana Damaceanu<sup>1</sup>  1 Petru Poni Institute of Macromolecular Chemistry, 41 A Grigore Ghica Voda Alley, 700487 Iasi, Romania</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>The core of self-assembling peptide nanofibers will influence neurogenesis potential of its attached biological motif</i>  Behnaz Tavakol 1, Shima Tavakol 2  1 School of Medicine, Kashan University of Medical sciences, Isfahan, Iran  2 Cellular and Molecular Research Center, Iran University of Medical sciences, Tehran, Iran</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Functionalised nano-graphene oxide for high efficiency gene delivery</i>  Nisha Yadav<sup>1</sup>, Naveen Kumar<sup>2</sup>, Seema Sehrawat<sup>2</sup> and Bimlesh Lochab<sup>1</sup>  1Department of Chemistry and 2Department of Life Sciences  School of Natural Sciences, Shiv Nadar University, Gautam Buddha Nagar, Uttar Pradesh, 201314, India.</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Smart Internal Stimuli-Responsive Nanocarriers for Gene Delivery/</i>  Magali Hernández 1, Enrique Lima<sup>2</sup>  1 Facultad de Química, Universidad Nacional Autónoma de México. Circuito exterior s/n, Cd. Universitaria, Del. Coyoacán, CP 04510, México D. F., Mexico. Mail: q.magalihdez@hotmail.com  2 Laboratorio de Físicoquímica y Reactividad de Superficies (LaFReS), Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Circuito exterior s/n, Cd. Universitaria, Del. Coyoacán, CP 04510, Ciudad de México, Mexico</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Fabrication of ultrathin poly(L-lactic acid) nanosheets by spin-coating suitable for tissue engineering</i>  I. Chyshankou*<sup>1</sup>, V. Kulikouskaya<sup>1</sup>, S. Pinchuk<sup>2</sup>, I. Volotovskiy<sup>2</sup>, V. Agabekov<sup>1</sup>  1Institute of Chemistry of New Materials of NASB, Minsk, Belarus  2 Institute of Biophysics and Cell Engineering of NASB, Minsk, Belarus</p>

<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>The two faces of titanium dioxide nanoparticles bio-camouflage in 3D bone spheroids</i>  W. Souza<sup>1,2</sup>, S. Gemini-Piperni<sup>2,3</sup>, R. Borojevic<sup>2,4</sup>, L. A. Rocha<sup>2,5</sup>, J. M. Granjeiro<sup>1,2,6</sup>, A. Ribeiro<sup>1,3,7*</sup>  <sup>1</sup>Postgraduate Program in Biotechnology, National Institute of Metrology Quality and Technology, Rio de Janeiro, Brazil;  <sup>2</sup>Brazilian Branch of Institute of Biomaterials, Tribocorrosion and Nanomedicine (IBTN);  <sup>3</sup> Brazilian Center for Research in Physics, Rio de Janeiro, Brazil;  <sup>4</sup>Center of Regenerative Medicine, Faculty of Medicine, Petrópolis, Brazil;  <sup>5</sup>Physics Department, University Estadual Paulista, Brazil;  <sup>6</sup>Dental School, Fluminense Federal University, Niterói, Brazil;  <sup>7</sup>Pos-Graduation Program in Translacional Biomedicine, University of Grande Rio, Brazil</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Stabilization of Bioinspired Non-spherical Cell Membrane-Coated Nanoparticles via Lyophilization</i>  Bernard Manuel Haryadi<sup>1*</sup>, Gerhard Winter<sup>1</sup> and Julia Engert<sup>1</sup>  <sup>1</sup>Ludwig-Maximilians-University Munich, Munich, Germany</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Amplification-Free Multi-RNA Type Profiling for Cancer Risk Stratification via Alternating Current Electrohydrodynamic NanoMixing</i>  Kevin M. Koo, Shuvashis Dey, Matt Trau  The University of Queensland Building 75 Cooper Road Australian Institute for Bioengineering and Nanotechnology Brisbane, QLD 4072, Australia</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Fabrication and Antibacterial Activity of Pectin-Ag Hydrogel</i>  Kseniya Hileuskaya<sup>1</sup>, Alena Ladutska<sup>2</sup>, Galina Novik<sup>2</sup>, Vladimir Agabekov<sup>1</sup>  <sup>1</sup>The Institute of Chemistry of New Materials, Minsk, Belarus  <sup>2</sup>The Institute of Microbiology, Minsk, Belarus.</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Assessment of the antibacterial effects of TiS<sub>3</sub> nanoribbons on E. coli</i>  A. Gusev<sup>1,2,*</sup>, O. Zakharova<sup>1,2</sup>, D. Muratov<sup>2</sup>, A. Sinitskii<sup>2,3</sup>  <sup>1</sup> Derzhavin Tambov State University, 33, Internatsionalnaya str., Tambov, 392000, Russia  <sup>2</sup> National University of Science and Technology MISIS, 4, Leninsky pr., Moscow, 119991, Russia  <sup>3</sup> Department of Chemistry, University of Nebraska – Lincoln, Lincoln, NE 68588, USA</p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Efflux pump inhibition and Photodynamic therapy of MRSA via thiolated chitosan coated cobalt doped ZnO nanoparticles</i>  Akhtar Nadhman<sup>1</sup>, Gulrukh<sup>1</sup>, Sulaiman Faisal<sup>1</sup>  <sup>1</sup> Institute of Integrative Biosciences, CECOS University of IT and emerging sciences, Peshawar 25000, Pakistan</p>

<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>A new interfacial bio-sensing approach for detecting aberrant protein phosphorylation in cancer</i>  <i>Mostak Ahmed<sup>1*</sup>, Laura G. Carrascosa<sup>1</sup>, Paul Mainwaring<sup>1</sup> and Matt Trau<sup>1,2</sup></i>  <i>1 Centre for Personalized Nanomedicine, Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Brisbane, QLD 4072, Australia</i>  <i>2 School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, QLD 4072, Australia</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Inconel 718 Machining Performance Investigation for Using Nano Bio-Coolant</i>  <i>Senthil kumar J S<sup>1*</sup>, Selvarani P<sup>2</sup> and Pramod V R<sup>3</sup></i>  <i>1Madanapalle Institute of Technology and Science, Madanapalle, India.</i>  <i>2Government Polytechnic College, Dharmapuri, India.</i>  <i>3NSS College of Engineering, Palakkad, India.</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Surface Mechanical Coating of Al-Cu powder by Mechanical Alloying</i>  <i>Iman Farahbakhsh*, Marzieh Abbasi</i>  <i>University of Applied Science and Technology, Shirvan Center, Khorasan, Iran</i>  <i>Department of Engineering, Quchan Branch, Islamic Azad University, Quchan, Iran</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Coating of Fe, Cu and SiC Nano Particles Mixture on Fe plate by Mechanical Alloying</i>  <i>Marzieh Abbasi*, Iman Farahbakhsh</i>  <i>University of Applied Science and Technology, Shirvan Center, Khorasan, Iran</i>  <i>Department of Engineering, Quchan Branch, Islamic Azad University, Quchan, Iran</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium</i>  <i>Subhashini Pandey<sup>1,2*</sup>, Sandeep Chandrashekarappa<sup>1</sup>, Tanu Jain<sup>1,2</sup>, Ketan Thorat<sup>1</sup> and Praveen K. Vemula<sup>1,3</sup></i>  <i>1Institute for Stem Cell Biology and Regenerative Medicine (inStem), GKVK Campus, Bellary Road, Bangalore 560065, Karnataka, India.</i>  <i>2 The Institute of Trans-Disciplinary Health Sciences and Technology, Yelahanka, Bengaluru560064, Karnataka, India.</i>  <i>3Ramalingaswami ReEntry Fellow, Department of Biotechnology, Government of India.</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Multivalent Antibody-Nanoparticle Conjugates to Enhance the Sensitivity of SERS-based Immunoassays</i>  <i>Taejoon Kang<sup>1*</sup></i>  <i>1Korea Research Institute of Bioscience and Biotechnology, Daejeon 34141, Republic of Korea</i></p>
<p><b>NOT CONFIRMED PARTICIPATION-PENDING</b></p>	<p><i>Salt Rejection and Ion-Selectivity of Slit-Shaped Nanopores in Biomineral: Molecular Dynamics Study</i>  <i>Alexey A. Tsukanov<sup>1*</sup>, Evgeny V. Shilko<sup>1</sup> and Sergey G. Psakhie<sup>1</sup></i>  <i>1Institute of Strength Physics and Material Sciences, Siberian Branch of Russian Academy of Sciences, Tomsk, Russia</i></p>

<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>Theoretical study of water interaction with functionalized benzene molecules</i>  <i>Rafaela-Maria Giappa<sup>1*</sup>, Emmanuel Klontzas<sup>1</sup> and George Froudakis<sup>1</sup></i>  <i><sup>1</sup> University of Crete, Department of Chemistry, Crete, Greece</i></p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>Impact of Bioinspired Zinc Nanoparticles on Germination and Biochemical Profiling of Canola</i>  <i>Zia-ur-Rehman Mashwani<sup>1*</sup>, and Sohail<sup>1</sup></i>  <i><sup>1</sup>Department of Botany, PMAS Arid Agriculture University, Rawalpindi, 46300, Pakistan</i></p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>Carbon Dots as a Trackable Drug Delivery System for Localized Cancer Therapy in vivo</i>  <i>Qin Li<sup>a*</sup>, Qinghui Zeng,<sup>b</sup> Chongxin Shan<sup>b</sup>, Jing Lic</i>  <i>a. Queensland Micro- and Nanotechnology Centre, &amp; School of Engineering &amp; Built Environment, Griffith University, Nathan, QLD 4111, Australia</i>  <i>b. State Key Laboratory of Luminescence and Applications, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Dong_Nanhu Road 3888, Changchun 130033, China.</i>  <i>c. Department of Pharmacology, College of Basic Medical Sciences, Jilin University, Changchun, P. R. China.</i></p>

## WORKSHOP 2

### PEROVSKITE OPTOELECTRONICS & SOLAR CELLS

WS2-P1	<p><b>Online Monitoring the Crystallization Process of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Probed by Femtosecond Transient Absorption Spectroscopy</b>            Efthymis Serpetzoglou<sup>1,3,*</sup>, Ioannis Konidakis<sup>1</sup>, Apostolos Panagiotopoulos<sup>2,4</sup>, Temur Maksudov<sup>2,4</sup>, Emmanuel Kymakis<sup>2</sup>, Emmanuel Stratakis<sup>1,4</sup>  <sup>1</sup>Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece  <sup>2</sup>Center of Materials Technology and Photonics, Electrical Engineering Dept, Technological Educational Institute (TEI) of Crete, Heraklion, Crete, Greece  <sup>3</sup>Physics Department, and <sup>4</sup>Department of Materials Science and Technology, University of Crete, Greece, Heraklion, Crete, Greece</p>
WS2-P2	<p><b>Photoluminescence Spectroscopy of Halide Perovskites</b>            Stuart Thomson<sup>1*</sup>, Maria Tesa<sup>2</sup> and Anna Gakamsky<sup>3</sup>  <sup>1</sup>Edinburgh Instruments, Livingston, UK  <sup>2</sup>Edinburgh Instruments, Livingston, UK  <sup>3</sup>Edinburgh Instruments, Livingston, UK</p>

WS2-P3	<p><b>Analysis of spin-texture of electronic bands in metal halide perovskite single crystals via spin-resolved photoelectron spectroscopy</b>  Maryam Sajedi<sup>1*</sup>, Maxim Krivenkov<sup>2</sup> and Dmitry Marchenko<sup>3</sup>  <sup>1,2,3</sup>Helmholtz Zentrum Berlin für Materialien und Energie, Berlin, Germany</p>
WS2-P4	<p><b>Different Morphologies of All-Inorganic Perovskite Nano/Microparticles: Physical Properties and Anion Exchange</b>  Konstantinos Brintakis<sup>1*</sup>, Maria Sygletou<sup>1</sup>, Athanasia Kostopoulou<sup>1</sup> and Emmanuel Stratakis<sup>1</sup>  <sup>1</sup>Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion, Greece</p>
WS2-P5	<p><b>Magnetic Behaviour of Rutile-type CrMO<sub>4</sub> (M = Nb, Ta) Materials Prepared from Single-molecular Precursors</b>  Martina Vrankić<sup>1*</sup>, Marijana Jurić<sup>1</sup>, Lidija Androš Dubraja<sup>1</sup>, Jasminka Popović<sup>1</sup>, Damir Pajić<sup>2</sup> and Jure Dragović<sup>2</sup>  <sup>1</sup>Ruđer Bošković Institute, Zagreb, Croatia  <sup>2</sup>Department of Physics, Faculty of Science, University of Zagreb, Zagreb, Croatia</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>Size Tunable Cesium Antimony Chloride Perovskite Nanowires and Nanorods</i>  Bapi Pradhan<sup>1*</sup>, Gundam Sandeep Kumar<sup>1</sup> Sumanta Sain<sup>2</sup>, Amit Dalui<sup>1,3</sup>, Uttam Kumar Ghorai<sup>4</sup>, Swapan Kumar Pradhan<sup>5</sup>, and Somabrata Acharya<sup>3</sup> <sup>1</sup>Centre for Advanced Materials and <sup>2</sup>Department of Materials Science, Indian Association for the Cultivation of Sciences, Jadavpur, Kolkata 700032, India <sup>3</sup>Department of Chemistry, Jogamaya Devi College, Kolkata 700026, India  <sup>4</sup> Department of Industrial &amp; Applied Chemistry, Swami Vivekananda Research Center, Ramakrishna Mission Vidyamandira, Belur Math, Howrah 711202, India <sup>5</sup>Department of Physics, University of Burdwan, Burdwan, West Bengal 713104, India</p>

## WORKSHOP 3 TISSUE ENGINEERING & REGENERATIVE MEDICINE

WS3-P1	<p align="center"><b>Biodegradable and bioactive scaffold for bone tissue engineering.</b></p> <p align="center">Malagón Escandón AM1*, Saniger Blesa JM2, Badillo Ramírez I2, Arenas Alatorre JA3, Chaires Rosas CP1, Vázquez Torres NA1, Piñón Zárata G1, Hernández Téllez B1, Herrera Enríquez M1, Castell Rodríguez AE1.</p> <p align="center">1 Department of Cell and Tissue Biology from the Faculty of Medicine, UNAM, Avenida Universidad 3000, C.P. 04510, Ciudad de México, CDMX.                  2 Center for Applied Sciences and Technological Development (CADET), UNAM Circuito exterior s/n C.P. 04510 Ciudad de México, CDMX.                  3 Institute of Physics (IFUNAM), Sendero Bicipuma, Coyoacán, Ciudad de México, CDMX.</p>
WS3-P2	<p align="center"><b>Analysis of the degree of crystallinity during laser cladding of bioactive glass coatings on ultrafine-grained metallic substrates</b></p> <p align="center">Szymon Bajda1*, Michal Krzyzanowski1, 2, Jakub Sroka1, 3, Szczepan Witek1 and Patryk Steczkowski1</p> <p align="center">1AGH University of Science and Technology, Krakow, Poland                  2Birmingham City University, Birmingham, United Kingdom                  3The University of Sheffield, Sheffield, United Kingdom</p>
WS3-P3	<p align="center"><b>Calcium phosphate mineralization of poly (N, N-dimethylacrylamide) (PDMAA) hydrogels</b></p> <p align="center">Constantine Ioannides1*, Georgios Bokias2,3 and Nikolaos Bouropoulos1,3 1Department of Materials Science, University of Patras, Patras, Greece                  2Department of Chemistry, University of Patras, Greece 3 Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, Patras, Greece</p>
WS3-P4	<p align="center"><b>Self-Assembling peptides with RGD motifs as scaffolds for tissue engineering</b></p> <p align="center">Graziano Deidda1,2,* Maria Farsari 1,2, Anna Mitraki 1,2</p> <p align="center">1Department of Materials Science &amp; Technology, University of Crete, Heraklion, Greece; 2Institute of Electronic Structure and Laser, IESL-FORTH, Heraklion, Greece</p>
WS3-P5	<p align="center"><b>Protein-based Hydrogel for laser-induced Fabrication of Microstructures</b></p> <p align="center">Amirbahador Zeynali1*, Giuseppe Chirico1 and Maddalena Collini1</p> <p align="center">1 Biophysics and Biophotonics group, Department of Physics “G. Occhialini”, Università’ Milano-Bicocca, Milano, Italy</p>
WS3-P6	<p align="center"><b>Biodegradable prosthesis created by electrospinning for the treatment of extrahepatic bile duct injuries</b></p> <p align="center">Alan Isaac Valderrama Treviño1*, Nadia Adriana Vázquez Torres1, Rodrigo Banegas Ruiz2, Andrés Eliú Castell Rodríguez1, Eduardo E. Montalvo-Javé3</p> <p align="center">1 Laboratory of experimental immunotherapy and tissue engineering, Faculty of Medicine, Universidad Nacional Autónoma de México, Mexico.                  2 Service of Hand Surgery and Microsurgery. Rehabilitation Hospital “Luis Guillermo Ibarra Ibarra”. Mexico City, Mexico.                  3 Department of HPB Surgery, General Hospital of Mexico, Mexico City, Mexico</p>

WS3-P7	<p><b>Engineering cell adhesion and orientation via ultrafast laser fabricated microstructured substrates under static and dynamic conditions</b>          Eleftheria Babaliari<sup>1,2*</sup>, Paraskevi Kavatzikidou<sup>1</sup>, Despoina Angelaki<sup>1,3</sup>, Anna Mitraki<sup>1,2</sup>, Anthi Ranella<sup>1</sup>, Emmanuel Stratakis<sup>1,2</sup>          1 Foundation for Research and Technology - Hellas (F.O.R.T.H.), Institute of Electronic Structure and Laser (I.E.S.L.), Heraklion, Crete, Greece          2 Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece          3 Department of Physics, University of Crete, Heraklion, Crete, Greece</p>
WS3-P8	<p><b>Co-flow microfluidic system for the production of tuneable elastic Gelatin methacrylate microparticles</b>          Francesco Pappalardo<sup>1*</sup>, Jopeth Miranda Ramis<sup>1</sup>, Marta Alvarez Paino<sup>1</sup>, Kevin Shakesheff<sup>1</sup>, Morgan R Alexander<sup>2</sup>, Felicity RAJ Rose<sup>1</sup>          1Division of Regenerative Medicine and Cellular Therapies, School of Pharmacy, Centre for Biomolecular Sciences, University of Nottingham, University Park, Nottingham, NG7 2RD, United Kingdom 2Division of Advanced Materials and Healthcare Technologies, School of Pharmacy, University of Nottingham, Nottingham NG7 2RD, United Kingdom</p>
WS3-P9	<p><b>Direct Laser Printing of Cells on Tissue Constructs based on Porous Collagen Scaffolds</b>          C.V. Leva<sup>1</sup>, M. Chatzipetrou<sup>1</sup>, D. Zareifi<sup>2</sup>, A. Gravanis<sup>3</sup>, L. Alexopoulos<sup>2</sup>, D. S. Tzeranis<sup>3*</sup> and I. Zergioti<sup>1</sup>          1Department of Physics, National Technical University of Athens, Zografou, Greece 2Department of Mechanical Engineering, National Technical University of Athens, Zografou, Greece 3Institute of Molecular Biology and Biotechnology, Foundation for Research and TechnologyHellas, Herakleion, Greece</p>
WS3-P10	<p><b>Octacalcium phosphate: Synthesis, characterization and stability studies in calcium alginate beads</b>          Emmanouela Mystiridou<sup>1,2*</sup>, Eleni-Anna Oikonomou<sup>1</sup> and Nikolaos Bouropoulos<sup>1,2</sup>          1Department of Materials Science, University of Patras, Patras, Greece 2Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Chemical Processes, Patras, Greece</p>
WS3-P11	<p><b>Surface and morphological investigation of synthesized nanostructured ridges from electrospun Polyvinyl Alcohol – Egg Albumin blend using Atomic Force Microscopy</b>          Jopeth Ramis<sup>1,2*</sup>, Bryan Pajarito<sup>3</sup>          1 Department of Chemical Engineering, Technological Institute of the Philippines, 363 P. Casal St. Quiapo, Manila, Philippines.          2 Division of Regenerative Medicine and Cellular Therapies, School of Pharmacy, University of Nottingham, University Park, Nottingham, United Kingdom          3 Polymer Research Laboratory, Department of Chemical Engineering, University of the Philippines, Diliman, Quezon City, Philippines</p>
WS3-P12	<p><b>Polarization-resolved multi-photon microscope supporting live cell imaging</b>          Sotiris Psilodimitrakopoulos<sup>1*</sup>, Andreas Lemonis<sup>1</sup>, Leonidas Mouchliadis<sup>1</sup>, Dionysios Xydias<sup>1,2</sup> and Emmanuel Stratakis<sup>1,2</sup>          1 Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Heraklion Crete 71110, Greece          2 Department of Materials Science and Technology, University of Crete, Heraklion Crete 71003, Greece</p>

WS3-P13	<p><b>Applications of non-linear imaging microscopy in biology</b>            Evangelia Gavgiotaki 1,2*, Vassilis Tsafas 1,3 , Meropi Mari1 and George Filippidis1            1 Institute of Electronic Structure and Laser, Foundation for Research and Technology, Heraklion, Greece            2 Medical School, University of Crete, Heraklion , Greece            3 Department of Physics, University of Crete, Heraklion, Greece</p>
WS3-P14	<p><b>Electrospun Fibrous Matrices for the Treatment of Orthopedic Diseases</b>            A. R. Tsiapla1*, V. Bakola1,2, V. Karagkiozaki1,2 and S. Logothetidis1            1Nanotechnology Lab LTFN (Lab for Thin Films – Nanobiomaterials –Nanosystems – Nanometrology) Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece            2BL Nanobiomed P.C. Thessaloniki, 54655, Greece</p>
WS3-P15	<p><b>Drug-loaded Nanoparticles for the Therapy of Orthopedic Implant Infections</b>            A. R. Tsiapla1*, V. Bakola1,2, V. Karagkiozaki1,2 and S. Logothetidis1            1Nanotechnology Lab LTFN (Lab for Thin Films – Nanobiomaterials –Nanosystems – Nanometrology) Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece            2BL Nanobiomed P.C. Thessaloniki, 54655, Greece</p>
WS3-P16	<p><b>Composite hydrogel based biomaterials functionalized with calcium carbonate for biomedical application</b>            Anatolii Abalymov1*, Maria Saveleva 2, Bogdan Parakhonskiy1 and Andre Skirtach1            1, Faculty of Bioscience Engineering Ghent University, Ghent, Belgium            2Saratov State University, Saratov, Russia</p>
WS3-P17	<p><b>BIOCOMPATIBILITY AND ANTIMICROBIAL ACTIVITY OF THYMOL-FUNCTIONALIZED 3D SCAFFOLDS</b>            K. Parkatze1,2*, M. Chatzinikolaidou1,3, E. Koufakis3, M. Farsari1 and M. Vamvakaki1,3            1Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, 700 13 Heraklion, Crete, Greece            2Department of Chemistry, University of Crete, 710 03Heraklion, Crete, Greece            3Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece</p>
WS3-P18	<p><b>HIGHLY EFFICIENT AND BIOCOMPATIBLE PHOTOINITIATORS FOR MULTI-PHOTON POLYMERIZATION</b>            K. Parkatze1,2*, G. Noirbent5, D. Ladika1,4*, M. Chatzinikolaidou1,3, D. Gray1, F. Dumur5, M. Farsari1 and M. Vamvakaki1,3            1Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, 700 13 Heraklion, Crete, Greece            2Department of Chemistry, University of Crete, 710 03Heraklion, Crete, Greece            3Department of Materials Science and Technology, University of Crete, 710 03 Heraklion, Crete, Greece            4Department of Physics, University of Crete, 710 03 Heraklion, Crete, Greece            5Aix Marseille University, CNRS, ICR, UMR 7273, F-13397 Marseille, France</p>



WS3-P19	<p align="center"><b>Influence of micro/nano-patterned surfaces on neuronal cell response</b></p> <p align="center">Papadimitriou Lina1*, Karali Kanelina1, Angelaki Despoina1, 2, Lanara Christina 1, 2, Kapaj Gentjan1, Kavatzikidou Paraskevi1, Stratakis Emmanuel1, 2, Ranella Anthi1</p> <p align="center">1 Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Greece 2 University of Crete, Greece</p>
WS3-P20	<p align="center"><b>Biocompatibility and potential cytotoxicity of silicalite-1 and nanodiamond-BMP-7 coatings for orthopedic implants</b></p> <p align="center">Ivana Kopova1*, Ivan Jirka2, Stepan Potocky3,4, Bohuslav Rezek3,4, Lucie Bacakova1</p> <p align="center">1 Institute of Physiology of the Czech Academy of Sciences, Prague, Czech Republic 2 J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Prague, Czech Republic 3 Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic 4 Faculty of Electrical Engineering, Czech Technical University, Prague, Czech Republic</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p align="center"><i>Porous poly(dimethylsiloxane) as substrate for mesenchymal stem cells adhesion</i></p> <p align="center"><i>Aliaksandr Kraskouski1*, Irina Paribok1, Sergei Pinchuk2, Irina Vasilevich2, Kirill Matievski2, Igor Volotovski2, Vladimir Agabekov1</i></p> <p align="center">1 Institute of Chemistry of New Materials, NAS of Belarus, Minsk, Belarus 2 Institute of Biophysics and Cell Engineering, NAS of Belarus, Minsk, Belarus</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p align="center"><i>Skeletal Muscle Tissue Engineering Using Micro and Nano scale substrates</i></p> <p align="center"><i>Dr. Sahar Salehi1*, Prof. Thomas Scheibel1,2</i></p> <p align="center">1 Department of Biomaterials, Faculty of Engineering Science, University of Bayreuth, Bayreuth 95440, Germany 2 Bayreuth Center for Materials Science and Engineering (BayMAT), University of Bayreuth, Bayreuth 95440, Germany</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p align="center"><i>Fabrication and properties of porous “sponge-like” films based on pectin-chitosan polyelectrolyte complexes</i></p> <p align="center"><i>Viktoryia Kulikouskaya*, Maryna Lazouskaya and Vladimir Agabekov</i></p> <p align="center"><i>Institute of Chemistry of New Materials of NAS of Belarus, Minsk, Belarus</i></p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p align="center"><i>Biocompatibility of artificial rod and cone photoreceptors with human-like spectral sensitivities</i></p> <p align="center"><i>Seok Hwan Kim1*, Byeongho Park2, Heehong Yang3, Hyun Seok Song4, Tai Hyun Park3, and Jae Hun Kim2</i></p> <p align="center">1Seoul National University Boramae Medical Center, Seoul, Korea 2Korean Institute of Science and Technology, Seoul, Korea 3 School of Chemical and Biological Engineering Seoul National University, Seoul, Korea 4Korea Basic Science Institute, Daejeon, Korea</p>

## WORKSHOP 4 GRAPHENE & RELATED 2D MATERIALS

WS4-P1	<p><b>Reduced Graphene Oxide Ink/Conductive Polymeric Composites for Enhanced Field Emission Devices</b>                  Minas Stylianakis<sup>1*</sup>, George Viskadourous<sup>1,2,,</sup>, Christos Polyzoidis<sup>1</sup>, George Veisakis<sup>1</sup>, Konstantinos Petridis<sup>1,3</sup> and Emmanuel Kymakis<sup>1</sup>  <sup>1</sup>Center of Materials Technology and Photonics &amp; Electrical Engineering Department, Technological Educational Institute (TEI) of Crete, Heraklion 71004 Crete, Greece <sup>2</sup>Department of Mineral Resources Engineering, Technical University of Crete, Chania, 73100, Crete, Greece <sup>3</sup>Department of Electronic Engineering Technological Educational Institute (TEI) of Crete, Chania 73132 Crete, Greece</p>
WS4-P2	<p><b>Single-step Green synthesis of Biocompatible Graphene Quantum Dots and their Cell Uptake Studies</b>                  Arnab Halder*, Maria Godoy-Gallardo, Jon Ashley, Xiaotong Feng, Tongchang Zhou, Leticia Hosta-Rigau and Yi Sun                  Department of Micro- and Nanotechnology, Technical University of Denmark, DK-2800 Kgs Lyngby, Denmark</p>
WS4-P3	<p><b>Optically induced absorption modulation in a graphene-based metasurface</b>                  Anna C. Tasolamprou<sup>1*</sup>, Charalampros Mavidis<sup>1,2</sup>, Anastasios D. Koulouklidis<sup>1</sup>, Cristina Daskalaki<sup>1</sup>, George Kenanakis<sup>1</sup>, George Deligeorgis<sup>1</sup>, Zacharias Viskadourakis<sup>1</sup>, Polina Kuzhir<sup>3</sup>, Stelios Tzortzakis<sup>1,4</sup>, Maria Kafesaki<sup>1,2</sup>, Eleftherios N. Economou<sup>1,4</sup> and Costas M. Soukoulis<sup>1,5</sup>  <sup>1</sup>Institute of Electronic Structure and Laser, FORTH, 71110, Heraklion, Crete, Greece  <sup>2</sup>Department of Materials Science and Technology, University of Crete, 71003, Heraklion, Crete, Greece  <sup>3</sup>Institute for Nuclear Problems, Belarus State University, Bobruiskaya 11,220030 Minsk, Belarus  <sup>4</sup>Department of Physics, University of Crete, University of Crete, 71003, Heraklion, Crete, Greece  <sup>5</sup>Ames Laboratory and Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011, United States</p>
WS4-P4	<p><b>Separation and recovery of heavy metal ions by graphene acid.</b>                  Jan Kolarik<sup>1*</sup>, Aristides Bakandritsos<sup>1</sup> and Radek Zboril<sup>1</sup>  <sup>1</sup>Regional Centre of Advanced Technologies and Materials, Departments of Physical Chemistry and Experimental Physics, Faculty of Science, Palacký University, 17. Listopadu 1192/12, 771 46 Olomouc, Czech Republic</p>
WS4-P5	<p><b>Spatially Selective Reversible Charge Carrier Density Tuning in WS<sub>2</sub> Monolayers via Photochlorination</b>                  I. Demeridou<sup>1,2*</sup>, I. Paradisanos<sup>1,2</sup>, Yuanyue Liu<sup>3,6</sup>, N. Pliatsikas<sup>4</sup>, P. Patsalas<sup>4</sup>, S. Germanis<sup>1</sup>, N. Pelekanos<sup>1,5</sup>, W. A. Goddard III<sup>3</sup>, G. Kioseoglou<sup>1,5</sup>, E. Stratakis<sup>1,2</sup>  <sup>1</sup> Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion, Crete, Greece; <sup>2</sup> Department of Physics, University of Crete, Heraklion, Crete, Greece; <sup>3</sup> Materials and Process Simulation Center and The Resnick Sustainability Institute, California Institute of Technology, Pasadena, California, United States; <sup>4</sup> Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece; <sup>5</sup> Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece; <sup>6</sup> Department of Mechanical Engineering and Texas Materials Institute, University of Texas at Austin, Austin, Texas, United States</p>

WS4-P6	<p><b>Theoretical investigation of water-soluble polyethylene glycol treated phosphorene system</b> Anikó Lábas<sup>1*</sup> and Tibor Höltzl<sup>1</sup> <sup>1</sup>Furukawa Electric Institute of Technology, Budapest, Hungary</p>
WS4-P7	<p><b>Laser fabrication of Transition-Metal Dichalcogenide Nanostructures based materials</b> Kyriaki Savva<sup>1, 2*</sup>, Bojana Višić<sup>3</sup>, Ronit Popovitz-Biro<sup>3</sup>, Athanasia Kostopoulou<sup>1</sup>, Christina Lanara<sup>1</sup>, Antonia Loufardaki<sup>1</sup>, Emmanuel Stratakis<sup>1</sup> and Reshef Tenne<sup>3</sup> <sup>1</sup>Institute of Electronic Structure and Laser, Foundation for Research and Technology Hellas, 71110 Heraklion, <sup>2</sup>Physics Department, University of Crete, Heraklion, 71004 Crete, Greece <sup>3</sup>Weizmann Institute of Science, 7610001 Rehovot, Israel</p>
WS4-P8	<p><b>Characterization &amp; Non-Linear Optical Imaging of 2D Transition Metal Dichalcogenides</b> I. Demeridou<sup>1,2*</sup>, I. Paradisanos<sup>1,2</sup>, A. Papadopoulos<sup>1,3</sup>, G. Kourmoulakis<sup>1,3</sup>, L. Mouchliadis<sup>1</sup>, S. Psilodimitrakopoulos<sup>1</sup>, G. Kioseoglou<sup>1,3</sup>, E. Stratakis<sup>1,2</sup> <sup>1</sup>Foundation for Research and Technology – Hellas (F.O.R.T.H.), Institute of Electronic Structure and Laser (I.E.S.L.), Heraklion, Crete, Greece <sup>2</sup>Department of Physics, University of Crete, Heraklion, Crete, Greece <sup>3</sup>Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>A novel electrochemiluminescence glucose biosensor based on polypyrrole/polyluminol/ C<sub>3</sub>N<sub>4</sub>-Ni(OH)<sub>2</sub>/glucose oxidase modified graphite electrode</i> <i>Lida Fotouhi<sup>a,*</sup>, Morteza Hosseini<sup>b,*</sup>, Maryam Hamtak<sup>a</sup></i> <i><sup>a</sup> Department of Chemistry, Alzahra university, Tehran, Iran</i> <i><sup>b</sup> Center of Excellence in Electrochemistry, Faculty of Chemistry, University of Tehran, Tehran</i></p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><b>STRUCTURAL PROPERTIES OF NANO POWDER SILICON CARBIDE "SiC" PRODUCED BY SOL-GEL METHOD</b> <i>Karima Benfadel<sup>1, 2*</sup>, Samira kaci<sup>1</sup>, Aissa Keffous<sup>1</sup> and Abdelbaki Benmounah<sup>2</sup></i> <i><sup>1</sup> thin layers, surfaces and interfaces, Research Center in Semiconductor Technology for Energy (C.R.T.S.E), Algiers, Algeria.</i> <i><sup>2</sup>UR-MPE: Research Unit Materials, Processes and Environment, University of M'hamed Bougara, Boumerdes, Algeria.</i></p>

## WORKSHOP 5

### NANOELECTRONICS & BIOELECTRONICS

WS5-P1	<p><b>Substrate-dependent triboelectric charging of graphene surface for enhanced electric potential generation by motion of ionic liquid droplets</b> Junghyo Nah<sup>1*</sup>, Pangun Park<sup>1</sup>, Daehoon Lee<sup>1</sup> <sup>1</sup>Chungnam National University, Daejeon, Korea</p>
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WS5-P2	<p><b>Top down InAs nanowire field-effect transistors on a SiO<sub>2</sub>/Si via soft lithographic method</b>  Junghyo Nah<sup>1*</sup>, Pangun Park<sup>1</sup>, Min Hyung Lee<sup>2</sup>  <sup>1</sup>Chungnam National University, Daejeon, Korea  <sup>2</sup>Kyung Hee University, Yongin, Korea</p>
WS5-P3	<p><b>High-Performance Piezoelectric Nanogenerators Based on Chemically-Reinforced Composites</b>  Youngmin Choi  Korea Research Institute of Chemical Technology (KRICT), Daejeon, Republic of Korea.</p>
WS5-P4	<p><b>Molecularly imprinted chiroptical sensor for detection of glucose</b>  M. F. Frasco<sup>*1</sup>, R. Pereira-Cameselle<sup>2</sup>, S. Chiussi<sup>3</sup>, J. L. Alonso-Gómez<sup>2</sup> and M. G. F. Sales<sup>1</sup> <sup>1</sup>BioMark-CEB/ISEP, School of Engineering, Polytechnic Institute of Porto, Porto, Portugal <sup>2</sup>Organic Chemistry Department, University of Vigo, Vigo, Spain <sup>3</sup>New Materials Group, Applied Physics Department, University of Vigo, Vigo, Spain</p>
WS5-P5	<p><b>Utilizing PLL-g-PEG substrates to detect DNA in complex samples: a combined Quartz Crystal Microbalance/Spectroscopic Ellipsometry study</b>  Dimitra Chronaki<sup>1,2*</sup>, George Papadakis<sup>1</sup>, Pasquale Palladino<sup>1</sup>, Achilleas Tsortos<sup>1</sup> and Electra Gizeli<sup>1,2</sup> <sup>1</sup>Institute of Molecular Biology and Biotechnology-FORTH, Heraklion, Greece <sup>2</sup>Department of Biology, University of Crete, Heraklion, Greece *</p>
WS5-P6	<p><b>Salmonella detection in whole blood using an acoustic wave device combined with signal-monitoring smartphone</b>  Gesthimani-Ioanna Theodosi<sup>1,2*</sup>, Konstantinos Parasyris,<sup>2</sup> George Papadakis<sup>1</sup>, Electra Gizeli<sup>1,2</sup>  <sup>1</sup>Institute of Molecular Biology and Biotechnology-FORTH, Heraklion, Greece  <sup>2</sup>Department of Biology, University of Crete, Heraklion, Greece</p>
WS5-P7	<p><b>Organic Based Transistors as biosensors for inflammatory biomarkers</b>  Chiara Diaccia,<sup>b</sup> Marcello Bertob, Carlo A. Bortolottib, Daniel T. Simona  a Division of Physics and Electronics, University of Linköping, Sweden b Scienze della vita, University of Modena and Reggio Emilia, Italy</p>
WS5-P8	<p><b>Epitaxial Vanadium Dioxide Films with Sharp Electrical and Optical Switch Properties</b>  Olga Boytsova<sup>1,2*</sup>, Fariya Akbar<sup>2</sup>, Dmitrii Sharovarov<sup>2</sup>, Artem Makarevich<sup>1,2</sup> and Andrey Kaul<sup>2</sup>  <sup>1</sup>Kurnakov Institute of General and Inorganic Chemistry, Moscow, Russia  <sup>2</sup>Lomonosov Moscow State University, Moscow, Russia</p>
WS5-P9	<p><b>Bioresorbable wireless electrical stimulator for nerve regeneration</b>  Sung-Geun Choi<sup>1</sup>, Gun-Hee Lee<sup>1</sup>, Jae-Young Bae<sup>1</sup>, Jae-Hwan Lee<sup>1</sup>, and Seung-Kyun Kang<sup>1,2,*</sup>  <sup>1</sup> Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology, Daejeon 34141, Republic of Korea  <sup>2</sup> KI for Health Science and Technology (KIHST), Korea Advanced Institute of Science and Technology, Daejeon 34141, Republic of Korea</p>
WS5-P10	<p><b>Fluorescent polymer-based nanocomposite electrospun fibers as optical sensors for ammonia and pH</b>  Xenofon Karagiorgis<sup>1*</sup>, A. Petropoulou<sup>2</sup>, I. Savva<sup>1</sup>, C. Riziotis<sup>2</sup>, S. Kralj<sup>3,4</sup> and T. Krasia-Christoforou<sup>1</sup>  <sup>1</sup>Department of Mechanical and Manufacturing Engineering, University of Cyprus, 75, Kallipoleos Avenue, P.O.Box 20537, 1678, Nicosia, Cyprus  <sup>2</sup>National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute</p>

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WS5-P11	<p><b>Au-Ag star shaped nanoparticles as highly efficient SERS nanoresonators.</b>          Jan Krajczewski<sup>1</sup>, Andrzej Kudelski<sup>1</sup>          1 Laboratory of Molecular Interaction, Faculty of Chemistry, University of Warsaw, Warsaw, Poland</p>
WS5-P12	<p><b>The new type of bipyramidal-Au@SiO<sub>2</sub> nanoparticles – synthesis and Raman application.</b>          Karol Kołataj<sup>1</sup>, Andrzej Kudelski<sup>1</sup>          1University of Warsaw, Department of Chemistry, Warsaw, Poland</p>
WS5-P13	<p><b>New type of highly efficient optical nanoresonators for SHINERS measurements.</b>          Karol Kołataj<sup>1</sup>, Andrzej Kudelski<sup>1</sup>          1 Department of Chemistry, University of Warsaw, Ludwika Pasteura 1, Warsaw, Poland,</p>
WS5-P14	<p><b>A study of spectroscopic properties and morphological behavior of ZnO nanoparticles and globular protein bovine serum albumin in solution and in a layer-by-layer self-assembled film</b>          Utsav Chakraborty*, Pabitra Paul          Dept of Physics, Jadvpur University, Kolkata, West Bengal, India – 700032</p>
WS5-P15	<p><b>Carbon quantum dots as active layer for hybrid light emitting diode (HyLEDs)</b>          Sofia Paulo,<sup>1,2*</sup> Eugenia Martinez-Ferrero<sup>2</sup>, Emilio Palomares<sup>1,3</sup>          1Institute of Chemical Research of Catalonia (ICIQ). The Barcelona Institute of Science and Technology (BIST), Tarragona, Spain          2Fundació Eurecat, Mataró, Spain.          3Catalan Institution for Research and Advanced Studies (ICREA), Barcelona Spain</p>
WS5-P16	<p><b>Laser-based multi-functional biomimetic surfaces</b>          Skoulas E.<sup>1,2*</sup>, Mimidis A. <sup>1,2</sup>, Papadopoulos A. <sup>1,2</sup>, Livakas N. <sup>1,2</sup>, Petrakakis E. <sup>1,2</sup>, Tsibidis G.D. <sup>1,</sup> and Stratakis E <sup>1,2</sup>          1ULMNP, Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), N. Plastira 100, Vassilika Vouton, 70013, Heraklion, Crete, Greece          2 Materials Science and Technology Department, University of Crete, 71003 Heraklion, Greece</p>
<b>NOT CONFIRMED PARTICIPATION-PENDING</b>	<p><i>Label-free electrochemical DNA sensing on nanoscale interdigitated electrodes using gold nanoparticle amplification</i>          Dilu G. Mathew<sup>1*</sup>, A. Marti<sup>2</sup>, J. Huskens<sup>2</sup>, S.G. Lemay<sup>3</sup> and W. G. van der Wiel<sup>1</sup> <sup>1</sup>NanoElectronics group; <sup>2</sup>Molecular Nanofabrication group; <sup>3</sup>BioElectronics group. MESA+ Institute of Nanotechnology, University of Twente, PO Box 217, 7500 AE Enschede, The Netherlands. *</p>