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ESF

Fachbereich Physik
AG Biophotonik

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35032 Marburg
Germany

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Marburg, 19.10.2011

Reimbursement ESF Science Meeting Reference Number 3280

Dear Ladies and Gentlemen,

the European Science Reception at the E-MRS conference in Nice (France) was successfully carried out. The announcement of the reception is attached.

The granted 5000,00 Euro were used in the following way:

1) Wine reception as announced in the programme on 12.5.2011 with all participants of the symposium. Around 150 people attended. The presenting persons, as well the announcement of the ESF reception, can be found in the attached conference programme. Dr. Stefan Maier has introduced the ESF activity PLASMON during this reception. In order to save cost the wine was bought in a wine store and served by volunteers of the conference.

=> 803,00 Euro

2) Contribution to travel expenses Dr. Brett Helms, Berkeley, CA, United States. Part of the travel expenses of Dr. Brett Helms have been paid from the ESF grant. The total amount of his costs were higher than the granted amount and thus he only got part of the traveling expenses from ESF. Receipts are attached.

=> 1935,50 Euro

3) Contribution to travel expenses Dr. Victor Puentes, Barcelona, Spain. Part of the travel expenses of Dr. Victor Puentes have been paid from the ESF grant. The total amount of his costs were higher than the granted amount and thus he only got part of the traveling expenses from ESF. Receipts are attached.

=> 993,47 Euro

4) Contribution to travel expenses Prof. Dr. Wolfgang Parak, Marburg, Germany. Part of my travel expenses have been paid from the ESF grant. The total amount of his costs were higher than the granted amount and thus I only got part of the traveling expenses from ESF. Receipts are attached.

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So far 4000,00 Euro have been transferred by ESF. Can you please transfer this the rest of the granted 5000,00 (which would be 1000,00 Euro) to the following account:

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Conference Programme with names of participants and announcement of ESF wine reception

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start at Subject Num.

Bio-nanomaterials for imaging, sensing and actuating : Teresa Pellegrino

09:10 **Interactions of colloidal nanoparticles and mammalian cells; a step further for the control of biological processes**
Authors : Dorota Bartczak (1), Otto L. Muskens (1), Tilman Sanchez-Elsner (2), Tim Millar (2), Antonios G. Kanaras (1)* 1 1
 (1). School of Physics and Astronomy, University of Southampton, Southampton, UK SO171BJ (2). school of Medicine, General Hospital, Southampton, UK, SO166YD
 corresponding author: a.kanaras@soton.ac.uk

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09:40 **Biological Imaging Using Ultra-Stable Nanoparticles**
Authors : Katie Wilson (1), Laurence Duchesne (1,2), Patricia Murray (1), Matthew Rosseinsky (3), David Fernig (1) 1 2
 (1) Institute of Integrative Biology, Biosciences Building, University of Liverpool. (2) Neural Cell Adhesion and Migration Group, INSERM, Paris. (3) Department of Chemistry, University of Liverpool.

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10:00 **Coffee break**

10:30 **Interfacial Biochemistry of Gold Nanorods**
Authors : Catherine J. Murphy Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana IL 61801 USA 1 3

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11:00 **Versatile multifunctional apoferritin nanoparticles for deep-tissue imaging and drug delivery**
Authors : P. Bardelang¹, L. Turyanska³, W.C. Drewe¹, K. Chintakayala¹, L. Zhang¹, T. D. Bradshaw², M. Li⁴, S. Mann⁴, A. Patan[?], N.R. Thomas¹ 1School of Chemistry, 2School of Pharmacy and, 3School of Physics & Astronomy, University of Nottingham, Nottingham, NG7 2RD (UK). 4School of Chemistry, University of Bristol, BS8 1TS, UK 1 4

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11:20 **Multifunctional magnetic nanobeads for biomedical applications**
Authors : Riccardo Di Corato *[§], Nadja-Carola Bigall *, Domenico Palumberi *, Liberato Manna * and Teresa Pellegrino *[§] [§] National Nanotechnology Laboratory of CNR-NANO, via per Arnesano 16, 73100 Lecce, Italy * Istituto Italiano di Tecnologia, via Morego 30, 16163 Genova, Italy 1 5

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11:40 **Towards the elaboration of novel highly fluorescent nanoprobe based on two-photon absorption chromophores/multifunctional polymers/gold assemblies**
Authors : C. Cepraga, T. Gallavardin, F. Lerouge, J. C. Mulatier, O. Maury, C. Monnerneau, C. Andraud, A. Favier, M. T. Charreyre, P. L. Baldeck, M. Lindgren, S. Parola. Université de Lyon, Laboratoire Joliot Curie, ENS Lyon and Laboratoire IMP, INSA- Lyon, France. Université de Lyon, UMR 5182 UCBL-CNRS-ENS, Laboratoire de chimie, Lyon, France. Laboratoire de spectroscopie Physique, Université Joseph Fourier Grenoble, France. Dept. of Physics, Norwegian University of science and Technology, Trondheim, Norway 1 6

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12:00 Lunch break

**Bio-nanomaterials for imaging, sensing and actuating :
Antonios Kanaras**

14:00 **Polyethylene Glycol-based Multidentate and Multifunctional Oligomers for Enhancing the Biocompatibility of Semiconductor, Gold and Magnetic Nanocrystals** 2 1
Authors : Goutam Palui, Hyon Bin Na, and Hedi Mattoussi
 Florida State University, Department of Chemistry and Biochemistry, Chemical Science Laboratories, Tallahassee, FL 32306

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14:30 **Carbon nanotubes coatings: a new strategy to improve the quality of chronic neuro-implants over time?** 2 2
Authors : E. Maggiolini¹, E. Castagnola¹, A. Ansaldo¹, A. Vato¹, L. Fadiga^{1,2} D. Ricci¹ ¹RBCS, Italian Institute of Technology, Genoa, Italy; ² Human Physiology, University of Ferrara, Ferrara, Italy

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14:50 **Control of blood clotting using gold nanorods** 2 3
Authors : Dr. Salmaan H. Baxamusa: MIT Department of Biological Engineering Helena de Puig Guixé: IQS and MIT Department of Biological Engineering Helen D'Couto: MIT Dr. Mercedes Balcells Camps: IQS and MIT Health Sciences Technology Prof. Kimberly Hamad-Schifferli: MIT Departments of Mechanical Engineering and Biological Engineering

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15:10 **A MRI contrast agent for cell labeling based on monodisperse iron oxide nanoparticles and cationic liposomes** 2 4
Authors : J. Trekker^{1,2}, M. Hodenius^{2,3}, S. J. Soenen³, W. Van Roy¹, L. Lagae^{1,4}, M. De Cuyper³ and U. Himmelreich²
¹Imec, Leuven, Belgium ²Department of Medical Diagnostic Sciences, Biomedical NMR-unit, K.U.Leuven, Belgium ³Lab of BioNanoColloids, IRC, K.U.Leuven Campus Kortrijk, Belgium ⁴Department of Solid State Physics and Magnetism, K.U.Leuven, Belgium

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15:30 Coffee break

16:00 Poster session advertisement - 5 min presentations

16:30 **Multifunctional Rare-Earth Doped Nanoparticles in Encapsulated Albumin Nanocarriers for Tumor Targeting** 2 6
Authors : Dominik J. Naczynski (1), Tamar Andelman (2, 3), Richard E. Riman (3), Suzie Chen (4), Charles M. Roth (1, 2) and Prabhas V. Moghe (1, 2) ⁽¹⁾ Department of Chemical and Biochemical Engineering Rutgers University (2) Department of Biomedical Engineering Rutgers University (3) Department of Materials Science and Engineering Rutgers University (4) Department of Chemical Biology Laboratory for Cancer Research Rutgers University

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16:50 **Multifunctional Nanoparticles for Chemo-Photothermal Treatment of Rheumatoid Arthritis** 2 7
Authors : Hyung Joon Kim¹, Sun-Mi Lee¹, Huiyul Park¹, Ji Hye Kim², Yong-Beom Park², and Kyung-Hwa Yoo^{1,3} ¹. Nanomedical Graduate Program, Yonsei University, Seoul 120-749, Republic of Korea ². Division of Rheumatology, Department of Internal Medicine, Institute for Immunology and Immunological Disease, BK21 Project for Medical Science, Yonsei University College of Medicine, Seoul, South Korea ³. Department of Physics, Yonsei University, Seoul 120-749, Republic of Korea

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17:10 **Potentiometric sensors based on carbon nanostructured materials** 2 8
Authors : Jordi Riu, Pascal Blondeau, F. Javier Andrade and F. Xavier Rius Department of Analytical and Organic Chemistry. Universitat Rovira i Virgili, Tarragona. Spain

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Bio-nanomaterials for imaging, sensing and actuating : Warren Chan

09:10 **Smarter nanoparticles for biological imaging** 3 1
Authors : Bruce E. Cohen Lawrence Berkeley Laboratory

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09:40 **Protein adsorption and biomedical properties of carbon nanotubes** 3 2
Authors : F.Watari, S.Itoh, M.Matsuoka, E.Hirata, H.Yoshida, T.Akasaka, M.Uo, H.Takita, Y.Kuboki, A.Yokoyama, Y.Yawaka, Y.Totsuka Graduate School of Dental Medicine, Hokkaido University, Sapporo 060-8586, Japan

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10:00 **Coffee**

10:30 **Plasmonic nanostructures: New design methodologies and high-resolution mode imaging for applications in nanobiophotonics** 3 3

Authors : Stefan A Maier, Imperial College London
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11:00 **Synthesis of PEGylated peptidic gold Nanorods and their self-organization in solution** 3 4
Authors : C. Hamon 1, T. Bizien1, M. Postic2, F. Artzner2 et V. Marchi Artzner1* 1 Université de Rennes 1, Science Chimique de Rennes, CNRS UMR 6226, Campus Beaulieu F.35042, Rennes Cedex, France 2 Université de Rennes1, Institut de Physique de Rennes, CNRS UMR 6251, Campus Beaulieu F 35042 Rennes Cedex, France * contact: valerie.marchi-artzner@univ-rennes1.fr, cyrille.hamon@etudiant.univ-rennes1.fr

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11:20 **Engineered Biocompatible FePt nanoParticles for in-vivo Imaging Applications** 3 5
Authors : Shu Chen,a Lijun Wang,b Suzanne L Duce,c Stuart Brown,b Stephen Lee,a Andreas Melzer,b Sir Alfred Cuschieri,b and Pascal Andr?,d* a- School of Physics and Astronomy (SUPA), University of St Andrews, St Andrews KY16 9SS (UK) b- Institute for Medical Science and Technology, University of Dundee, Dundee DD2 1FD (UK) b- Division of Biological Chemistry and Drug Discovery, College of Life Sciences, University of Dundee, Dundee DD1 5EH (UK) d- Chemistry and Materials Physics Building, RIKEN, 2-1 Hirowasa, Wako, Saitama, 351-0198 (Japan) E-mail: Pascal.Andre@st-andrews.ac.uk

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11:40 **Optical properties of dynamic DNA templated gold nanoparticle groupings** 3 6
Authors : Alexandra Sereda, Mickaël Busson, Benjamin Portier and Sébastien Bidault Institut Langevin, ESPCI ParisTech, CNRS UMR 7587, INSERM U979, 10 rue Vauquelin 75005 Paris

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12:00 **Lunch**

13:40 **Validation of a human blood-brain barrier cell model for screening of nanoparticle uptake and transcytosis** 4 0
Authors : Mattia Bramini, Michelle NicRaghnaill, Dong Ye, Kenneth A. Dawson Centre for BioNano Interactions, Conway

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Bio-nanomaterials for imaging, sensing and actuating : Hedi Mattoussi

14:00 **Intracellular fate and biotransformation of magnetic nanoparticles:**
Authors : Michael Lévy, Nathalie Luciani, Claire Wilhelm and Florence Gazeau Laboratoire Matière et Systèmes Complexes, 4 1
UMR 7057, CNRS and Université Paris Diderot 10 rue Alice Domon et Léonie Duquet, 75205 Paris cedex 13, France
*Contact author : florence.gazeau@univ-paris-diderot.fr

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14:30 **Small Rigid Platforms : a new tool for theranostic applications**
Authors : F. Lux1, A.Mignot1,2, J. Morlieras, P. Mowat1, A. Penciu-Basset1, P. Perriat3, O. Tillement1. 1 Laboratoire de Physico-Chimie des Matériaux Luminescents, UMR5620, 4 2
Université Lyon 1 2 Nano-H SAS, 2 place de l'Europe, 38070 Saint-Quentin Fallavier. 3 Laboratoire MATEIS, UMR 5510, INSA Lyon

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14:50 **Interfacing CdTe Quantum Dots with living organisms: uptake, biodistribution and toxicological impact**
Authors : Alfredo Ambrosone, Lucia Mattered, Valentina Marchesano, Angela Tino and Claudia Tortiglione Istituto di Cibernetica "E. Caianiello", Consiglio Nazionale delle Ricerche, 4 3
Via Campi Flegrei, 34, 80078 Pozzuoli, Italy

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15:10 **Purified and oxidized single-walled carbon nanotubes: potential NIR fluorescent probes for molecular imaging**
Authors : Dania Movia, Elisa Del Canto and Silvia Giordani* 4 4
School of Chemistry / Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN), University of Dublin, Trinity College, Dublin 2, Ireland.

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15:30 **Coffee**

Bio-nanomaterials for imaging, sensing and actuating; POSTERS : Raphael Levy

16:00 **Ion sensing with colloidal nanoparticles**
Authors : Wolfgang J. Parak Fachbereich Physik, Philipps 5 1
Universität Marburg Renthof 7, 35037 Marburg, Germany

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16:00 **Immobilized Oligopeptide Microarrays for Detecting Proteases**
Authors : Kun-Lin Yang, Chih-Hsin Chen, He Jianzhong, and Bi Xinyan 5 3

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16:00 **Preparation of luminescent inorganic core/shell-structured nanoparticles**
Authors : Moritz Milde*, Sofia Dembski*, Sabine Rupp*, Carsten Gellermann*, Miroslaw Batentschuk**, Andres Osvet**, Albrecht Winnacker** * Fraunhofer ISC, 5 4
Würzburg/Germany ** Lehrstuhl für Werkstoffe der Elektronik und Energietechnik, Universität Erlangen-Nürnberg/Germany

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16:00 **Cytotoxicity of multi-walled carbon nanotubes modified with iron**
Authors : Svitlana Prylutska1, Maria Grybova1, Yuriy Prylutsky1 Uwe Ritter2, Peter Scharff2 Ukrainian-German Center on Nanobiotechnology, 1Kyiv National Taras Shevchenko University, Institute of Biology, Volodymyrska Str., 64, 01601 Kyiv, Ukraine 2Technical University of Ilmenau, Laboratory of Chemistry, 09684 Ilmenau, Germany 5 5

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16:00 **Silicon Nanowires-based SERS Substrate for Sensitive DNA Detection**
Authors : Tingting Xu, Shuit-Tong Lee Center of Super-Diamond and Advanced Films (COSDAF), Department of Physics and Materials Science, City University of Hong Kong, Hong Kong SAR, P.R.China 5 7

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16:00 **Engineering Peptide Self-Assembled Monolayers on Gold Nanoparticles**
Authors : Chris Shaw, Martin Volk, David Middleton, Jill Madine, David Fernig, Raphael Levy 5 8

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16:00 **Separation free multiplexed pathogenic DNA detection**

- using silver nanoparticles and SERS** 5 9
Authors : Danny van Lierop, Karen Faulds, Duncan Graham
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- 16:00 **Effect of liquid solution viscosity in the LIFT process studied by shadowgraphy imaging** 5 10
Authors : A. Palla-Papavlu¹, J. Shaw-Stewart², T. Mattle³, T. Lippert³, A. Wokaun³, M. Dinescu¹ ¹ National Institute for Lasers, Plasma and Radiation Physics, P.O. Box MG-36, Magurele RO-077125, Bucharest, Romania ² EMPA, Swiss Federal Laboratories for Materials Testing and Research, Laboratory for Functional Polymers, Überlandstrasse 129, 8600 Dübendorf, Switzerland ³ Paul Scherrer Institute, General Energy Research Department, 5232 Villigen PSI, Switzerland
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- 16:00 **Fluorescing Core-Shell Silica-Metaloxide Nanoparticles for Nanotoxicological in vitro screening** 5 11
Authors : Timo DABERKOW, Fabian MEDER, Laura TRECCANI, Kurosch REZWAN ^{Advanced Ceramics, University of Bremen, Bremen, Germany}
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- 16:00 **a-SiC:H Monolithic heterostructures for proteins' detection** 5 12
Authors : M. Vieira^{1,2,3}, J. Costa^{1,2}, P. Louro^{1,2}, M A Vieira^{1,2}, M. Fernandes^{1,2}, A. Fantoni^{1,2} ¹Electronics Telecommunication and Computer Dept. ISEL, R. Conselheiro Emidio Navarro, 1949-014 Lisboa, Portugal Tel: , Fax: +351 21 8317114, mv@isel.ipl.pt ; ² CTS-UNINOVA, Quinta da Torre, Monte da Caparica, 2829-516, Caparica, Portugal. ³ DEE-FCT-UNL, Quinta da Torre, Monte da Caparica, 2829-516, Caparica, Portugal
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- 16:00 **Up-conversion emitting, superparamagnetic hybrid nanoparticles with Fe₃O₄ core and NaYF₄:Yb,Er shell for sensor applications** 5 13
Authors : S. Wilhelm (a), T. Hirsch (a), E. Scheucher (b), T. Mayr (b), O.S. Wolfbeis (a) ^{(a) University of Regensburg, Institute of Analytical Chemistry, Chemo- und Biosensors, 93040 Regensburg, Germany (b) Graz University of Technology, Institute of Analytical Chemistry and Food Chemistry, 8010 Graz, Austria}
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- 16:00 **Metallic Nanotube Arrays- Diverse and Highly Tunable Biosensors** 5 14
Authors : A. Murphy, C. McClatchey, B. Hill, J. McPhillips and R. Pollard ^{Queen's University Belfast, N. Ireland.}
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- 16:00 **Quantum dot barcodes expedite genetic screening of infectious disease** 5 15
Authors : Supratim Giri, Edward A. Sykes, Warren C. W. Chan, ^{Institute of Biomaterials and Biomedical Engineering, Donnelly Centre for Cellular and Biomolecular Research, Materials Science and Engineering, Chemical Engineering, and Chemistry, 164 College St, 4th floor, Toronto, ON, M5S 3G9}
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- 16:00 **Silicon-hydrogel hybrid stamps for multiplexed protein microarrays** 5 16
Authors : Erhan Bat, Pascal Jonkheijm, Jurriaan Huskens ^{Molecular Nanofabrication Group MESA+ Institute for Nanotechnology University of Twente}
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- 16:00 **Are the HA2 peptide coated gold nanoparticles are capable to breach the endosomes?** 5 17
Authors : Umbreen Shaheen and Raphaël Lévy* ^{School of Biological Sciences, University of Liverpool; United Kingdom: L69 7ZB, Crown Street, Liverpool; UK.}
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- 16:00 **Enhanced uptake of gold nanoparticles using bacterial toxin** 5 18
Authors : Umbreen Shaheen, Yann Cesbron, Lara Bogart, Ian Prior and Raphaël Lévy* ^{School of Biological Sciences, University of Liverpool; United Kingdom: L69 7ZB, Crown Street, Liverpool; UK.}
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- 16:00 **Gold nanotriangles for LSPR detection of tyrosinase/antigen binding** 5 19
Authors : Leonor Soares a,b, Joao Cortez b, Thomas Schneider c, Wolfgang Fritzsche c, Eulalia Pereira a, Ricardo Franco b ^{a) REQUIMTE, Dept. Quimica e Bioquimica, Faculdade de Ciencias da Universidade do Porto, 4169-007 Porto, Portugal. b) REQUIMTE, Dept. Quimica, Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa, 2829-516 Caparica, Portugal. c) IPHT, Institute of Photonic Technology, Jena, Germany.}
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- 16:00 **Synthesis of imprinted sol-gel for the binding investigation of creatinine**

- Authors** : Mei-Jywan Syu*, Chen-Chih Chu Department of Chemical Engineering, National Cheng Kung University, Taiwan Email: syumei2012@gmail.com 5 20
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- 16:00 **Urease/polypyrrole microelectrode integrated with the microfluidic technology for the sensing of urea**
Authors : Mei-Jywan Syu1*, Yu-Sung Chang1, Jiun-Lin Lin1, Ping-Hong Chen1, Chao-June Huang2, Gwo-Bin Lee 2 5 21
1Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan 701 2Department of Engineering Science, National Cheng Kung University, Tainan, Taiwan 701 Email: syumei2012@gmail.com
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- 16:00 **The effect of peptide length on the interfacial kinetics of proteases on peptide-capped gold nanoparticles**
Authors : L. K Bogart - University of Liverpool S. Eardley - University of Liverpool D. Ghosh - University of Liverpool C. P. Shaw - University of Liverpool R. Levy - University of Liverpool 5 22
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- 16:00 **Doping Cu in Semiconductor Nanocrystals: Some Old and Some New Physical Insights**
Authors : Bhupendra B. Srivastava*, Santanu Jana, and Narayan Pradhan 5 23
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- 16:00 **Effect of CdTe quantum dots with daunorubicin on inducing multidrug resistance of human hepatoma HepG2/ADM cells apoptosis: in vitro and in vivo evaluation**
Authors : Gen Zhang1, Lixin Shi2, Matthias Selke2, Xuemei Wang 1,* 1State Key Lab of Bioelectronics (Chien-Shiung Wu Lab), Department of Biological Science and Medical Engineering Southeast University, Nanjing, 210096, China 2Department of Chemistry and Biochemistry, California State University, Los Angeles, Los Angeles, California 90032 *Corresponding author: xuewang@seu.edu.cn 5 24
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- 16:00 **Bio-sensing and Bio-Imaging of Cancer Cells via New Nanoconjugates**
Authors : Xuemei Wang*, Gen Zhang , Yanyan Zhou, Hui Jiang State Key Lab of Bioelectronics, Southeast University, Nanjing 210096, China *Corresponding author: xuewang@seu.edu.cn 5 25
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- 16:00 **Optimisation of Gold Nanowire Array Geometry for Sensing Applications**
Authors : C. McClatchey, A. Murphy, B. Hill, J. McPhillips and R. Pollard Centre for Nanostructured Media, Queen's University Belfast, BT7 1NN, United Kingdom. 5 26
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- 16:00 **Nanostructured Microelectrode Arrays for Epicortical Neural Recordings and Stimulation in Human Brain**
Authors : A. Ansaldo1, E. Castagnola 1, D. Ricci2, L. Fadiga 1,2 1 RBCS, Italian Institute of Technology, Genoa, Italy; 2 Human Physiology, University of Ferrara, Ferrara, Italy 5 28
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- 16:00 **Influence of Plasma Proteins on a Gold Nanoparticle ImmunoAssay for Malaria Diagnostics**
Authors : Ricardo Franco1, Miguel Cavadas1,2, Marco P. Monopoli2, Eulália Pereira3, Miguel Prudêncio4, Iseult Lynch2, and Kenneth A. Dawson2 1 REQUIMTE, Dept. Química, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2829-516 Caparica, Portugal 2 Centre for BioNano Interactions, School of Chemistry and Chemical Biology, and Conway Institute for Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland 3 REQUIMTE and Dept. Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, R. do Campo Alegre, 687, 4169-007 Porto, Portugal 4 Malaria Unit, Instituto de Medicina Molecular, Faculdade de Medicina da Universidade de Lisboa, 1649-028 Lisboa, Portugal 5 30
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- 16:00 **DNA sensing at nanoscale surfaces**
Authors : Chunhai Fan Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai 201800, China, E-mail: fchh@sinap.ac.cn 5 31
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- 16:00 **Surface Nano-Structuring of NiTi alloy in Antibacterial Applications**
Authors : Shuilin Wu a, b, Xiangmei Liu a,b,c, Amy Yeung c, K. W. K. Yeung c, G. S. Wu a, Zushun Xu b, R. K. Y. Fu a, Paul K. Chu a, * *Corresponding author: Prof. Paul K Chu Tel: 852-34427724; Fax: 852-27889549; Electronic mail: paul.chu@cityu.edu.hk a Department of Physics & Materials Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong, PRC b Faculty of Materials Science and Engineering, Hubei University, Wuhan, 430062, PRC c Division of Spine Surgery, Department of Orthopaedics and 5 32

Traumatology, The University of Hong Kong, Pokfulam, Hong Kong, PRC

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- 16:00 **Applications in Sensors Using ZnO Gated Graphene Field-Effect Transistors**
Authors : Sheng-Chun Hung¹, Chung-Wei Chen², Chung, Gou-Chung Chi³ 1. Optical Science Center, National Central University, Jhongli, Taiwan. 2. Department of Physics, National Central University, Jhongli, Taiwan. 3. Department of photonics, National Chaio Tung University, Hsinchu, Taiwan. 5 33
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- 16:00 **Intracellular Imaging with a Graphene-Based Fluorescent Probe**
Authors : Cheng Peng, Wenbing Hu, Yuntao Zhou, Chunhai Fan, and Qing Huang 5 34
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- 16:00 **An Amorphous Silicon Carbide Photodetector for Measuring the Concentration of Glucose based on Polarimetry.**
Authors : J. Costa^{1,2}, M. Fernandes^{1,2}, Óscar Claro¹, P. Louro^{1,2}, M. Vieira^{1,2} 1-Electronics Telecommunication and Computer Dept. ISEL, R. Conselheiro Emídio Navarro, 1949-014 Lisboa, Portugal Tel: , Fax: +351 21 8317114, 2 CTS-UNINOVA, Quinta da Torre, Monte da Caparica, 2829-516, Caparica, Portugal. 3 DEE-FCT-UNL, Quinta da Torre, Monte da Caparica, 2829-516, Caparica, Portugal 5 35
- [+](#) add to my program [↗](#) (view full abstract)
- 16:00 **Optical detection of ethanol using colloidal nanoprobe**
Authors : P. Andreakou¹, S. Hands¹ and P. G. Lagoudakis¹ 1School of Physics and Astronomy, University of Southampton, Southampton SO17 1BJ, United Kingdom 5 36
- [+](#) add to my program [↗](#) (view full abstract)
- 16:00 **Interferometric planar structures and Ellipsometry at sub-micron spot size level for Label-free biosensing optimization**
Authors : A. Lavin, M. Holgado, R. Casquel, F.J. Sanza, M.F. Laguna. Centro Láser, Universidad Politécnica de Madrid. Campus Sur, 28031, Madrid, Spain. 5 37
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- 16:00 **Real-time monitoring of ischemia with implantable potentiometric ion selective sensors in an array format**
Authors : Islam Bogachan Tahirbegi^{1,3}, Monica Mir^{1, 2} and Josep Samitier^{1,2,3} 1 Nanobioengineering group, Institute for Bioengineering of Catalonia (IBEC), Baldiri Reixac 10-12, 08028 Barcelona, Spain 2 Centro de Investigacion Biomedica en Red en Bioingenieria, Biomateriales y Nanomedicina (CIBER-BBN), Spain. 3 Department of Electronics, University of Barcelona, c/ Marti i Franques 1, 08028 Barcelona, Spain. 5 38
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- 16:00 **Synthesis of Hybrid Inorganic Nanoparticles-pH Responsive Poly(2-Vinylpyridine-co-Divenylbenzene-co-Nanoparticles) Composite Nanogels by Late Injection Emulsion Polymerization**
Authors : Andreas Riedinger⁽¹⁾, Manuel Pernia Leal⁽¹⁾, Teresa Pellegrino^(1,2) (1) Italian Institute of Technology, Via Morego 30, Genoa, Italy (2) National Nanotechnology Laboratory of CNR-NANO, via Arnesano 16, 73100 Lecce, Italy 5 39
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- 16:00 **Cationic Gold Nanoparticles for Biomedical Applications**
Authors : Isaac Ojea-Jimenez, Lorena Garcia, Victor Puentes; CIN2(ICN-CSIC), Catalan Institute of Nanotechnology, Campus de la UAB 08193 Bellaterra (Barcelona) Spain 5 40
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- 16:00 **Peptide trapping in Nanopores for Antibacterial Surfaces**
Authors : G.M.L. Messina¹, R. Lettieri², M. Venanzi² and G. Marletta¹ 1Laboratory for Molecular Surface and Nanotechnology (LAMSun) – Dept. of Chemical Sciences – University of Catania and CSGI 2 Dept. of Chemical Sciences and Technologies- University of Rome Tor Vergata 5 41
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- 16:00 **Shape control of iron oxide nanoparticles**
Authors : G. Perez, I. G. Solorzano, M. P. R. Obando, S. R. W. Louro 5 42
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- 16:00 **Surface characterization of europium doped nano-hydroxyapatite**
Authors : C.S. Ciobanu^{1,2}, E. Andronescu¹, I. Pasuk², F. Ungureanu², S. Iconaru², I. Musa³, F. Massuyeau³, A. M. Djouadi³, P. Le Coustumer⁴, S. Galaup⁵, A. Stoicu², A. M. Prodan^{1,6,7}, D. Predoi² 1University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Science and Engineering of Oxide Materials and Nanomaterials, 1-7 Polizu Street, P.O. Box 12-134, 011061 Bucharest, Romania 2National Institute for Physics of Materials, P.O. Box MG 07, Bucharest, Magurele, 5 43

Romania dpredoi68@gmail.com 3Institut des Mat?aux-Jean Rouxel, 02 rue de la Houssini? BP 32 229, 44 322 Nantes, France 4Universite Bordeaux 1, Avenue des Facult? Bat 18, 33405 Talence Cedex France, 5IUT Michel de Montaigne – Bordeaux 3, 1 rue Jacques Ellul 33080 Bordeaux cedex France 6Emergency Hospital Floreasca, Bucharest 5, Calea Floresca nr 8, sector 1, Bucarest, Romania 7Carol Davila University of Medicine and Pharmacy, 8 Eroii Sanitari, sector 5, Bucharest, Romania

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16:00 **Tailored ZnO nanoplateforms as hybrid biosensor substrates for fluorescence based biosensing**
Authors : Yana Aleeva,a Maria Elena Fragalà,*b Cristina Satriano.b a Scuola Superiore Università di Catania, Dipartimento di Scienze Chimiche Viale Andrea Doria,6, Catania, Italy b Dipartimento di Scienze Chimiche Università di Catania and INSTM Udr Catania, Viale Andrea Doria,6, Catania, Italy 5 44

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16:00 **Rare Earth-Based Luminescent Nanomaterials: Surface Modification and their Bio-applications**
Authors : Ling-Dong Sun, Jia-Cai Zhou, Jie Shen, Wei Feng, Jian-Qin Gu and Chun-Hua Yan Beijing National Laboratory for Molecular Sciences, State Key Laboratory of Rare Earth Materials Chemistry and Applications, PKU-HKU Joint Laboratory in Rare Earth Materials and Bioinorganic Chemistry, Peking University, Beijing, 100871, China. 5 45

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16:00 **Evaluation of the cytotoxicity and genotoxicity induced by gold nanoparticles in the human hepatocarcinoma cells in vitro**
Authors : I. M. M. Paino¹, V. Marangoni¹ and V. Zucolotto¹ 1 Universidade de São Paulo, Instituto de Física de São Carlos, SP, Brazil - Grupo de Biofísica Molecular Av. Trab. São Carlense, 400, CEP13566-590, São Carlos e-mail: zuco@if.sc.usp.br 5 46

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16:00 **Cytotoxicity of Nanomaterials Investigated using Biomembrane Models and Cell Culture**
Authors : J. Cancino(1,2)*, K.C. Micocci(3), T.M. Nobre(1), H.S.S. Araujo(3), S.A.S.Machado(2) and V. Zucolotto(1) (1)IFSC-USP, Instituto de Física de São Carlos, Universidade de São Paulo. (2)IQSC-USP, Instituto de Química de São Carlos, Universidade de São Paulo. (3)UFSCar, Centro de Ciências Biológicas e da Saúde, Universidade Federal de São Carlos 5 47

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16:00 **Inhibition of Bacterial Biofilm on Polyethylene with Organic and Inorganic Disinfection Reagents in vitro**
Authors : Wei Zhang¹, *, Junhui Ji¹, *, Hongmei Li², Huanxin Li¹, 1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China 2. Department of Respiratory, The 309th Hospital of PLA, Beijing 100091, China 5 48

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16:00 **Chemo-Photothermal Treatment using Multifunctional Nanoparticles for Combination Cancer Therapy**
Authors : Sun-Mi Lee¹, Huiyul Park^{1,2}, Joung-Woo Choi^{1,2}, Young Nyun Park³, Chae-Ok Yun^{1,4}, Kyung-Hwa Yoo^{1,5} 1. National Core Research Center for Nanomedical Technology, Yonsei University 2. Graduate Program for Nanomedical Science, Yonsei University 3. Department of Pathology, Yonsei University College of Medicine 4. Brain Korea 21 Project for Medical sciences, Institute for Cancer Research, Yonsei University College of Medicine 5. Department of Physics, Yonsei University 5 49

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16:00 **The study on biomass-based PBS material using in biomedical field**
Authors : Bing Yang, Junhui Ji, Ziqiang Zhang, Xu Ying Technical Institute of Physics and Chemistry, CAS 5 50

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16:00 **BioFET using biotinylated F8T2**
Authors : Seong Hyun Kim, Sang Chul Lim, Yong Suk Yang, Hyun Tak Kim 5 51

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16:00 **Highly sensitive biochips for in-situ, real-time studies of DNA hybridization**
Authors : Gouget-Laemmel A.C., Touahir L., Morailon A., Allongue P., Henry de Villeneuve C., Chazalviel J.-N., Ozanam F. Physique de la matière condensée, Ecole Polytechnique-CNRS, France 5 52

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16:00 **Aptamer-Modified Anodized Aluminum Oxide-Based Capacitive Sensor**
Authors : Joo-Hyoung Kim¹, Bongkeun Kang¹, Soyoun Kim², Kyung-Hwa Yoo¹ (a) 1 Department of Physics and Nation Core Research Center for Nanomedical Technology,

- Yonsei University, 134 Shinchon-dong, Seodaemun-gu, Seoul 5 53
120-749, Republic of Korea 2 Department of Biomedical
Engineering, Dongguk University, 26 pil-dong 3 ga, Jung-gu,
Seoul 100-715, Republic of Korea a) Electronic mail:
khyoo@yonsei.ac.kr
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- 16:00 **ZnS nanoparticles as nano-biomarkers**
Authors : Myriam Moussaoui, Rachida Saoudi, Sabine Palle, 5 54
Stephanie Reynaud
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- 16:00 **Fluorescent nanocrystalline silicon and nanodiamonds
as novel labels for optical microscopy**
Authors : Anna Fucikova^{1,2}, Jan Valenta¹, Ivan Pelant²,
Vitezslav Brezina³ ¹Faculty of Mathematics and Physics,
Charles University, Ke Karlovu 3, 121 16 Prague 2, Czech 5 55
Republic ²Institute of Physics AS CR, v. v .i., Cukrovarnicka
10, 162 53 Prague 6, Czech Republic ³Institute of Systems
Biology and Ecology AS CR, v. v .i., Zamek 136, 373 33 Nove
Hrady, Czech Republic
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- 16:00 **Water-in-oil microemulsion preparation of fluorescent
lanthanide complexes doped silica nanoparticles for
applications as imaging biomarkers**
Authors : Claire Gaillard^{1,2}, Pierre Adumeau^{1,2}, Damien
Boyer¹, Jean-Louis Canet², Arnaud Gautier² and Rachid
Mahiou¹ ¹Clermont Université, Université Blaise Pascal, 5 56
CNRS, ENSCCF, UMR 6002, Laboratoire des Matériaux
Inorganiques, 24 avenue des landais 63171 Aubière, France
²Clermont Université, Université Blaise Pascal, CNRS,
ENSCCF, UMR 6504, Laboratoire SEESIB, 24 avenue des
landais 63171 Aubière, France
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- 16:00 **A simple method for the preparation of Cationic Gold
Nanoparticles and their biological implications**
Authors : Lorena Garcia (1), Isaac Ojea (1) and Victor
Puntes (1,2). 1. CIN2(ICN-CSIC), Catalan Institute of 5 57
Nanotechnology, Campus de la UAB 08193 Bellaterra
(Barcelona) Spain. 2. ICREA, Institució Catalana de Recerca i
Estudis Avançats, 08010 Barcelona, Spain
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- 16:00 **Interacting Gold Nanoparticles and Proteins in Protein
Sensing and Diagnostics**
Authors : Jashmini Deka, Anumita Paul and Arun 5 58
Chattopadhyay Department of Chemistry Indian Institute of
Technology Guwahati, Guwahati 781 039; India
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- 16:00 **Protein Molecular Switch Driven Microcantilevers**
Authors : Stefania Federici,^{a*} Giulio Oliviero,^a Kimberly
Hamad- Schifferli,^b Paolo Bergese,^{a*} ^a Chemistry for
Technologies Laboratory and INSTM, University of Brescia, 5 59
Via Branze, 38, 25123 Brescia, Italy ^b Department of
Biological Engineering, Massachusetts Institute of Technology,
77 Mass Ave., Cambridge, MA, 02139, USA. *Presenting and
corresponding author, stefania.federici@ing.unibs.it
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- 16:00 **Correlation Study of the Optical Properties for Ag@Au
and Au@Ag Core@shell Nanoparticles for use as Ultra-
sensitive Bio-molecular Probes**
Authors : Derrick Mott*, Dao Thi Ngoc Anh, Yoshiya Aoki,
and Shinya Maenosono School of Materials Science, Japan 5 60
Advanced Institute of Science and Technology, 1-1 Asahidai,
Nomi, Ishikawa 923-1292, Japan *E-mail Address:
derrickm@jaist.ac.jp
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- 16:00 **Carbon nanotubes-polypyrrol nanocomposite for
biosensing applications**
Authors : A.-M. Ducu(1), S. Iordache(1) , C. Luculescu(2), A.
Andronie(1), S. Stamatina(1), A. Cucu(1), C. Ceaus(1), M. 5 61
Ceaus(1), I. Stamatina(1) ¹ University of Bucharest, Faculty
of Physics, ³Nano-SAE Research Centre, PO Box MG-38,
Bucharest-Magurele, Romania ² National Institute for
Lasers, Plasma & Radiation Physics, Lasers Department,
Bucharest-Magurele, Romania
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- 16:00 **Mechanism of NO₂ detection with field-effect
transistors**
Authors : Anne-Marije Andringa^{1,2}, Juliaan Meijboom²,
Edsger Smits³, Simon Mathijssen^{2,4}, Paul Blom^{1,3} and Dago 5 63
de Leeuw^{1,2} ¹ Zernike Institute for Advanced Materials,
GRONINGEN, The Netherlands ² Philips Research
Laboratories, EINDHOVEN, The Netherlands ³ TNO/Holst
Centre, EINDHOVEN, The Netherlands ⁴ Eindhoven University
of Technology, EINDHOVEN, The Netherlands
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- 16:00 **Probing the structure of the extracellular matrix via
gold nanoparticle based single molecule microscopy**
Authors : Daniel NIEVES (1), Raphaël LEVY(1), Yann

- CESBRON (1), Laurence DUCHESNE (2), David FERNIG (3) 5 64
(1)Institute of Integrative Biology, University of Liverpool, United Kingdom, (2)INSERM, Université Pierre et Marie Curie, France, (3) Liverpool University, United Kingdom
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- 16:00 **Nanobiocomposites Containing Gold Nanoparticles and Proteins for Medical Applications**
Authors : Marangoni, V. S., Zucolotto, V. Instituto de Física de São Carlos, Universidade de São Paulo, São Carlos, 13560-970, Brazil. 5 65
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- 16:00 **Synthesis of AgNPs Embedded on Clay-PNiPAAm Exhibiting Thermo- Responsive Antimicrobial Property**
Authors : Yu-An Su, Hsiao-Chu Lin, Bi-Zen Hsieh, Jiang-Jen Lin* 5 66
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- 16:00 **Nanoscale Interaction of Ionic Silicate Platelets with Surfactants and Biomaterials**
Authors : Hsiao-Chu Lin, Hui-Fen Lin, Bi-Zen Hsieh, Yu-An Su and Jiang-Jen Lin* 5 67
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- 16:00 **Thermoresponsive Polymeric Nanoparticles for Radionuclide Delivery**
Authors : Jiri Panek, Martin Hruby, Sergey Filippov and Jan Kucka Institute of Macromolecular Chemistry AS CR, Prague, Czech Republic 5 68
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- 16:00 **Strongly luminescent EuS-Eu2O2S nanocrystals – synthesis method and optical properties**
Authors : M. Banski, A. Podhorodecki, J. Misiewicz Institute of Physics, Wrocław University of Technology, Wybrzeze Wyspianskiego 27, 50-370 Wrocław, Poland M. Afzaal Center of Research Excellence in Renewable Energy, King Fahd University of Petroleum and Minerals, Dhahran, 31261 Saudi Arabia P. O'Brien The Manchester Materials Science Centre and Department of Chemistry, The University of Manchester, Oxford Road, Manchester, M13 9PL, UK 5 69
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- 16:00 **Highly Sensitive and Multiplexed Bioassays by Signal Amplifications of Targets Using Anti-fouling Streptavidin-biotin QD Conjugate Pairs**
Authors : Joonhyuck Park† and Sungjee Kim*, †, ‡ School of Interdisciplinary Bioscience and Bioengineering, and ‡Department of Chemistry, Pohang University of Science and Technology (POSTECH), Hyoja-dong, Nam-gu, Pohang, Gyeongbuk, 790-784, South Korea 5 70
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- 16:00 **Multicolour luminescence of bi-functional NaGdF4:Eu3+ -Tb3+ nanocrystals – synthesis and optical properties**
Authors : M. Banski, A. Podhorodecki, J. Misiewicz Institute of Physics, Wrocław University of Technology, Wybrzeze Wyspianskiego 27, 50-370 Wrocław, Poland M. Afzaal Center of Research Excellence in Renewable Energy, King Fahd University of Petroleum and Minerals, Dhahran, 31261 Saudi Arabia P. O'Brien The Manchester Materials Science Centre and Department of Chemistry, The University of Manchester, Oxford Road, Manchester, M13 9PL, UK 5 71
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- 16:00 **Follow-up of localization and biotransformations of iron oxide MRI contrast agents used for detection of atherosclerosis in a murine model**
Authors : V.A. Maraloiu1,4, B. Van Der Sanden2, H. Wege2, D. Leguellec3, V.S. Teodorescu4, M-G Blanchin1 1 Université de Lyon, F-69000, France; Univ. Lyon 1, Laboratoire PMCN; CNRS, UMR 5586; F-69622 Villeurbanne Cedex 2 Grenoble Institute de Neurosciences - Inserm U 836 3 Institut de Biologie et Chimie des Protéines, UMR 5086 CNRS-University Lyon 1, IFR 128 Biosciences Gerland Lyon Sud, 69367 Lyon Cedex 07, France 4 National Institute of Materials Physics, Bucharest, Romania 5 72
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- 16:00 **Enhancement of enzymatic IDE biosensor using gold nanoparticles. Example of the detection of urea.**
Authors : W. Nouira1,2, A. Maaref2, F. Vocanson3*, M. Siadat4, A. Errachid1, N. Jaffrezic-Renault1* 1 Université de Lyon, Laboratoire des Sciences Analytiques : Université Claude Bernard, Lyon 1, 43 Boulevard du 11 novembre 1918, 69622 Villeurbanne, France 2 Laboratoire de physique et chimie des interfaces, Faculté des Sciences de Monastir, Avenue de l'Environnement, 5019 Monastir, Tunisia 3 Université de Lyon, Laboratoire Hubert Curien, CNRS UMR 5516, Université Jean Monnet, 42000 Saint-Etienne, France 4 LASC – ISEA - Université de Metz, 7 Rue Marconi, 57070 Metz, France Corresponding authors : e-mails : francis.vocanson@univ-st-etienne.fr ; nicole.jaffrezic@univ-lyon1.fr 5 73
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- 16:00 **CO2 Laser Assisted Gas-phase Synthesis of TiO2 Nanoparticles from Titanium Isopropoxide Precursor**
Authors : National Institute for Lasers, Plasma and Radiation Physics, Atomistilor 409, 077125, Bucharest-Magurele, Romania 5 74
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- 16:00 **Study of different optical response of BICELLS between avian influenza and antiGestrinone antibodies immobilization**
Authors : F.J. Sanza¹, R. Casquel¹, M.F. Laguna¹, M. Holgado¹, F.J. Ortega², M.J. Bañuls², C. A. Barrios³, D. López-Romero³, A. Maquieira², R. Puchades². 1 Centro Láser, Universidad Politécnica de Madrid. Campus Sur UPM, carretera de Valencia Km 7.300 s/n, 28031 Madrid, Spain. 2 Instituto de Reconocimiento Molecular, Universidad Politécnica de Valencia. Camino de Vera s/n, 46022, Valencia, Spain 3 Instituto de Sistemas Optoelectrónicos y Microtecnología, Universidad Politécnica de Madrid, ETSI de Telecomunicación. Ciudad Universitaria s/n, 28040, Madrid, Spain 5 75
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- 16:00 **Surface amine-functionalization of interdigitized-array electrode for the sensing the biomolecules**
Authors : Hao-Ming Huang, Ching-Chuan, Chang, Meng-Jiy Wang*, Chia-Pyng Lee* Department of Chemical Engineering National Taiwan University of Science and Technology 5 76
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- 16:00 **Stable Dye-Labelled Oligonucleotide-Nanoparticle Conjugates for Nucleic Acid Detection**
Authors : Lee Barrett, Jennifer A. Dougan and Duncan Graham Centre for Molecular Nanometrology, WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, 295 Cathedral St., Glasgow, Scotland, G1 1XL, UK 5 77
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- 16:00 **Multifunctional Nanobeads**
Authors : N.C. Bigall¹, M. Pernia Leal¹, L. Manna¹, T. Pellegrino^{1,2} 5 78
¹Nanobiotech, Italian Institute of Technology, via Morego 30, 16163 Genoa, Italy
²National Nanotechnology Laboratory of CNR-NANO, via Arnesano 16, 73100 Lecce, Italy
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- 16:00 **Cell Attachment Studies on Metal Gas Ion Implanted Glassy polymeric Carbon Composites Reinforced with Nanopowders**
Authors : Bopha chhay, Emel sokullu urkac, Ahmet Oztarhan, Ismet Gurhan, Sultan Gulce Iz, Claudiu Muntele and Daryush Ila, Center for Irradiaion of Materials 5 79
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- 16:00 **DESIGN, SYNTHESIS AND CHARACTERIZATION OF FUNCTIONAL PI-ELECTRON CONTAINING NANOSTRUCTURES WITH UNIDIRECT EXCITATIONS ENERGY TRANSFER**
Authors : V.M.Yashchuk (a), V.Yu.Kudrya (a), R.D.Fedorovich (c), O.A.Marchenko (c), A.G.Naumovets (c), H.Suga (d), I.O.Savchenko (a), G.P.Golovach (a) (a) Physics and Chemical Faculties, T.Shevchenko National University of Kyiv, academichian Glushkov's str., 2, 03022, Kyiv, Ukraine; e-mail: vmyashchuk@univ.kiev.ua, valeriyaa@yahoo.com (b) Institute of Molecular Biology and Genetics of NASU, Kyiv, Ukraine (c) Institute of Physics of NASU, Kyiv, Ukraine (d) Research Center for Advanced Science and Technology, University of Tokyo, Tokyo, Japan 5 80
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- 16:00 **Magnetic pH-responsive Nanogel as Multifunctional Delivery Tool for small interfering RNAs (siRNAs)**
Authors : A Curcio**, A Riedinger**, D Palumberi**, R Marotta**, A Falqui**, L Manna** and T Pellegrino*,** * 5 81
National Nanotechnology Laboratory of CNR-NANO, Via per Arnesano, 73100 Lecce (Italy) and **Italian Institute of Technology, via Morego 30, 16163, Genova (Italy)
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- 16:00 **Development, Optimisation and Expansion of Gold Nanoparticle Based Platforms for Enzyme Sensing**
Authors : Nicolas Schaeffera, Mauro Comes-Franchinib, Erica Locatellib, Molly M. Stevensa* a Imperial College London, Department of Materials, Department of Bioengineering and Institute for Biomedical Engineering, Royal School of Mines, Prince Consort Road, SW7 2BP, London, U.K. b Dipartimento di Chimica Organica, Facoltà di Chimica Industriale, Viale Risorgimento 4, 40136 Bologna, Italy. 5 82
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- 16:00 **Analysis of protein functionalization over SU-8 polymer-based biosensing surfaces by means of X-ray Photoelectron Spectroscopy and Fourier Transform-Visible Spectrometry.**

Authors : R. Casquel¹, N. Ditaranto², F.J. Sanza¹, M.F. Laguna¹, R. Pilolli², N. Cioffi², M. Holgado¹. 1 Centro Láser, 5 83
Universidad Politécnica de Madrid. Campus Sur UPM, carretera de Valencia Km 7.300 s/n, 28031 Madrid, Spain. 2 Dipartimento di Chimica. Università Degli Studi di Bari "Aldo Moro". Via Orabona,4, 70126 Bari, Italy.

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16:00 **Spectroscopic studies of the rare-earth doped vanadates, chromates and phosphates as perspective luminescent bioprobes**

Authors : S. Nedilko, Yu. Hizhnyi, V. Shcherbatskyi, D. Kozak, Kyiv National Taras Shevchenko University, 2, block 1, 5 84
Acad. Hlushkov Ave., 03680, Kyiv, Ukraine N. Gamaleia, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine, 45 Vasylykivska Str., 03022, Kyiv, Ukraine

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16:00 **Ion sensing film optodes: Application to the detection of toxicologically relevant metal ions**

Authors : R. Ebdelli ^{1,2,*}, A. Rouis ¹, J. Davenas ², I. Bonnamour ³, H. Ben Ouada ¹ 1 Laboratoire de Physique et Chimie des Interfaces, Faculté des Sciences de Monastir, Avenue de l'environnement, 5000 Monastir, Tunisia 2 5 85
Ingénierie des Matériaux Polymères et Biomatériaux : LMPB, UMR CNRS 5223, 43 boulevard du 11 Novembre 1918, Université Claude Bernard-Lyon1, 69622 Villeurbanne, France 3 Institut de Chimie & Biochimie Moléculaires & Supramoléculaires (ICBMS), équipe CSA UMR CNRS 5246, 43 Boulevard du 11 Novembre 1918, Université Claude Bernard Lyon 1, 69622 Villeurbanne, France

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16:00 **THE OLYGADENYLATE NONOSYSTEMS AS THE PHOSPHORESCENCE SENSORS FOR PROTEINS**

Authors : V.M.Yashchuk (1), V.Yu.Kudrya (1), S.M.Levchenko (1), Z.Yu.Tkachuk (2), V.I.Mel'nik (3), V.P.Vorob'yov (3), A.P. Naumenko (1) (1) Physics Faculty of Kyiv Taras Shevchenko National University, Build.1, 2, 5 86
academician Glushkov's ave., 03127, Kyiv, UKRAINE; vmyashchuk@univ.kiev.ua, valeriyya@yahoo.com (2) Institute of Molecular Biology and Genetics of NAS of Ukraine, 150, academician Zabolotny's str., 03143, Kyiv, UKRAINE; ztkachuk@bigmir.net (3) Institute of Physics of NAS of Ukraine, 46, Nauki ave., 03028, Kyiv, UKRAINE

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16:00 **Iron based nanoparticles for medical applications: development of systems for the laser gas-phase synthesis starting from liquid precursors**

Authors : -E. Popovici, C. Luculescu, R. Alexandrescu, C. Fleaca, F. Dumitrache, R. Barjega, M. Scarisoreanu, E. Duta, 5 87
A. Barbut, I. Morjan National Institute for Laser, Plasma and Radiation Physics, Laser Department, Laser Photochemistry Laboratory, PO BOX MG-36, Atomistilor 409 st. R 077125, Bucharest, Romania - E. Vasile, SC-METAV SA, Strada C.A. Rosetti, Nr.31, cod 020011, Bucuresti, Romania

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16:00 **Application of II-VI semiconductor nanoparticles in enzyme biosensors**

Authors : A.I. Savchuk, M.M. Marchenko, M.M. Berezovskyy, T.A. Savchuk, Department of Physics of Semiconductors and Nanostructures, Chernivtsi National University, 2 Kotsubinsky Str., 58012 Chernivtsi, Ukraine; V.I. Fediv, 5 88
Department of Biophysics and Medical Informatics, Department of Patomorphology and Forensic Medicine, Bukovina State Medical University, 2 Teatralna Square, 58002 Chernivtsi, Ukraine

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16:00 **SPE based on porphyrins for biological compound sensing**

Authors : S. Iordache(1), A-M. Ducu(1), A. Andronie(1), S. Stamatin(1), A. Cucu(1), C. Ceaus(1), M. Ceaus(1), A. Popescu(2), E. Fagadar-Cosma(3), R. Cristescu(4), I. Stamatin(1) (1) University of Bucharest, Faculty of Physics, 3Nano-SAE Research Centre, PO Box MG-38, Bucharest-Magurele, Romania (2) University of Bucharest, Faculty of Physics, Department of Electricity and Biophysics, Bucharest-Magurele, PO Box MG-11, Romania. (3) Institute of Chemistry Timisoara of Romanian Academy, Department of Organic Chemistry, 300223, Timisoara, Romania (4) National Institute for Lasers, Plasma & Radiation Physics, Lasers Department, PO Box MG-36, Bucharest-Magurele, Romania 5 89

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16:00 **Magnetic nanoparticles for immunoassay : improvement of magnetic detection, surface functionalization and nanoprobe**

Authors : Caroline de Beaucois (a), Farah Benyettou (a), Irena Milosevic (a), Yoann Lalatonne (a,b), Laurence Motte (a) a) Laboratoire CSPBAT UMR 7244 CNRS, University of Paris 13, Bobigny, 93017, France b) Service Médecine Nucléaire, Hôpital Avicenne, Bobigny, 93000, France 5 90

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- 16:00 **Design of polymer based films by means of atmospheric pressure plasma polymerization for enzyme immobilization**
Authors : C. Amorosi*, M. Michel*, V. Ball*, , V. Toniazzo*, D. Ruch*, L. Averous* * AMS : Department of Advanced Materials and Structures, Centre de Recherche Public Henri Tudor, 66 rue de Luxembourg, Esch-sur-Alzette, Luxembourg ' LIPHT-ECPM, EAc(CNRS) 4379, Université de Strasbourg, 25 rue Becquerel 67087 Strasbourg Cedex 2 France 5 91
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- 16:00 **Detoxifying cisplatin by conjugation to Gold Nanoparticles**
Authors : Joan Comenge (1) (2), Carmen Sotelo (3), Francisco Romero (4), Óscar Gallego (5), Agustí Bernadas (5), Fernando Domínguez (3), Víctor Puentes (1) (6) (1) CIN2(ICN-CSIC), Catalan Institute of Nanotechnology, Spain 5 92
 (2) INL, International Iberian Nanotechnology Laboratory, Portugal (3) USC, Univerity of Santiago de Compostela, Spain (4) UV, University of Valencia, Spain (5) Sant Pau Hospital, Spain (6) ICREA, Institutió Catalana de Recerca i Estudis Avançats
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- 16:00 **Influence of polyacrilamide and polyacrilamide coated silver nanoparticles on hematoporphyrin absorption and fluorescence**
Authors : Madan Ivan, Konko Yulia, Yashchuk Valeriy, Kutsevol Natalia, Losytsky Myhaylo Taras Shevchenko national university of Kiev 5 93
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- 16:00 **Self-Organization of Cholesteric Liquid-Crystal Polymers on Metal Substrates**
Authors : Mercedes Pérez-Méndez1, Paloma Tejedor2 1Instituto de Ciencia y Tecnología de Polimeros (ICTP). CSIC. 5 94
 C/ Juan de la Cierva, 3. 28006-Madrid. Spain 2Instituto de Ciencia de Materiales de Madrid (ICMM), C.S.I.C. C/ Sor Juana Inés de la Cruz, 3. Cantoblanco. 28049-Madrid. Spain
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- 16:00 **Long term electrochemical stability of nanostructured carbon nanotube based coatings for neural microelectrodes**
Authors : E. Castagnola 1, A. Ansaldo1, E. Maggiolini1, L. Fadiga 1,2 D. Ricci1 1 RBCS, Italian Institute of Technology, Genoa, Italy; 2 Human Physiology, University of Ferrara, Ferrara, Italy 5 95
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- 16:00 **Luminescent porous silicon for biosensing applications**
Authors : V.B.Shevchenko, O.I.Dacenko, V. A. Makara Physics Faculty, Kyiv Taras Shevchenko National University, pr. Glushkova 6, 03022 Kyiv, Ukraine 5 96
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- 16:00 **CMOS-embedded BioMEMS with backside etched cavities for affinity sensorics**
Authors : P. Kulse, M. Birkholz, J. Bauer, J. Drews, U. Haak, J. Katzer, S. Marschmeyer, D. Wolansky, K. Schulz, IHP, Im Technologiepark 25, 15236 Frankfurt (Oder), Germany 5 97
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- 16:00 **Fluorescent nanotechnology tools for in vital labeling of Nematostella vectensis**
Authors : V. Marchesano 1, A. Ambrosone 1 and C.Tortiglione 1 1 Istituto di Cibernetica "E.Caianello"CNR, Pozzuoli, Italy 5 98
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Bio-nanomaterials for imaging, sensing and actuating : Florence Gazeau

09:10 **BIO-INSPIRED NANOMATERIALS FOR ENZYME SENSING**
Authors : Professor Molly Stevens, Department of Materials and Institute for Biomedical Engineering, Imperial College London, London, UK 6 1

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09:40 **Silicon Nanoparticles: Bioconjugation and Toxicity**
Authors : Sourav Bhattacharjee, Loes Ruizendaal, Ivonne Rietjens, Gerrit Alink, Ton Marcelis, Jos Paulusse, Han Zuilhof 6 2

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10:00 Coffee

10:30 **Cytosolic Delivery of Dynamic Probes of Physical States in Live Cells**
Authors : Aaron E. Albers, Patrick M. McBride, Andrea R. Bayles, Dev S. Chahal, Harvey S. Chahal, Teresa E. Pick, Bruce E. Cohen, Caroline M. Ajo-Franklin & Brett A. Helms 6 3

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11:00 **Structural Basis for Ligand Exchange: Progress Toward Artificial Proteins**
Authors : Christine L. Heinecke and Christopher J. Ackerson 6 4

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11:20 **Interactions of Nanoparticles and Proteins – The Formation and Nature of the Protein Corona**
Authors : Lennart Treuel, University of Duisburg-Essen Marcelina Malissek, University of Duisburg-Essen Stefan Grass, University of Duisburg-Essen Reinhard Zellner, University of Duisburg-Essen 6 5

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11:40 **Materials Development for over-1000-nm Near Infrared Fluorescence Biomedical Imaging**
Authors : Kohei SOGA, Hiroshi HYODO and Hidehiro KISHIMOTO, Tokyo University of Science, Chiba, Japan 6 6

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12:00 Lunch

Symposium Bio-nanomaterials for imaging, sensing and actuating : Wolfgang Parak

14:00 **Nanoparticle toxicology and risk assessment**
Authors : Professor C. Vyvyan Howard. MB. ChB. PhD. FSB. FRMS. FRCPath. Professor of Bioimaging, Nano Systems Biology, University of Ulster, Coleraine, UK 7 2

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14:30 **FLUORESCENT SiC NANOPARTICLES FOR IMAGING OF HEALTHY (SG) AND CANCER (HSC) HUMAN EPITHELIAL CELLS**
Authors : T. Serdiuk^{1,4}, V. Lysenko², V.A. Skryshevsky¹, A. Barberis³, B. Moggetti³ and A. Geloën⁴ 1 – Institute of High Technologies, Kiev National Taras Shevchenko University, Ukraine 2 – Lyon University, Lyon Institute of Nanotechnologies, UMR-5270, INSA-Lyon, France 3 – Turin University, Depart. Clinical & Biological Sciences, Italy 4 – 7 2

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14:50 **Cytotoxicity study of fluorescent apoferritin-PbS nanocomposites**
Authors : L. Turyanska 1, T. D. Bradshaw 2, M. Li 5, P. Bardelang 3, W. C. Drewe 3, M. Fay 4, S. Mann 5, A. Patanè 1, and N. R. Thomas 3 1School of Physics and Astronomy, 2School of Pharmacy, 3School of Chemistry, 4Nanocentre The University of Nottingham, NG7 2RD, UK 5School of Chemistry, University of Bristol, BS8 1TS, UK 7 3

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15:10 **Bioimaging using up-converting nanophosphors**
Authors : Mireille Crittin (1), Ismet Ahmadov (2), Mohammadali Ramazanov (2), Michel Schaer (3), László Forró (1), and Andrzej Sienkiewicz (1) 7 4

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15:30 **Coffee break**

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Bio-nanomaterials for imaging, sensing and actuating : Kimberley Hamad-Schifferli

09:10	Inorganic Nanoparticles as Drug Carriers: Pharmacokinetic Considerations on Biodistribution. Authors : Joan Comenge, Victor Puentes ICN-Barcelona SPAIN Carmen Sotelo, Fernando Dominguez USC- Santiago SPAIN Francisco Romero ICMOL Valencia Spain Oscar Gallego HSP Barcelona Spain	8 1
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09:40	Controlled modification of colloidal nanoparticles: chemical and biological applications Authors : Jose-Maria Montenegro*, Faheem Amin, Ali Zulfurnain and Wolfgang J. Parak Philipps University of Marburg, Faculty of Physics, Renthof 7, 35037 Marburg, Germany	8 2
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10:00 Coffee break

10:30	Nanostructured microelectrodes for ultrasensitive biomolecular detection Authors : Shana Kelley, University of Toronto	8 3
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11:00	DNA origamis: mechanisms of formation and melting, structure fluctuations. Authors : JM. Arbona, J. Elezgaray and JP. Aimé, CBMN, UMR5248, 33600 Pessac, France. jm.arbona@iecb.u-bordeaux.fr	8 4
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11:20	Gold nanoparticle-glucose/galactose binding protein-based colorimetric sensor for selective and rapid detection of glucose Authors : Zeljka Krpetic ¹ , Faaizah Khan ² , John C. Pickup ² , Karen Faulds ¹ , Duncan Graham ^{1,*} 1) University of Strathclyde, Centre for Molecular Nanometrology, Department of Pure and Applied Chemistry, Royal College Building, 295 Cathedral Street, Glasgow G1 1XL, United Kingdom 2) King's College London School of Medicine, Hodgkin Building 2.92, Guy's Hospital Campus, London SE1 1UL, United Kingdom	8 5
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11:40	Synthesis and Characteristics of Bimetallic Core-Shell Ag-Au Nanoflowers as SERS-tag Authors : Si Yue Li, Min Wang * Department of Mechanical Engineering, The University of Hong Kong, Hong Kong	8 6
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12:00 Lunch

Symposium Bio-nanomaterials for imaging, sensing and actuating : Catherine Murphy

14:00	Nanomachinery of surface-conjugated biomolecules: a thermodynamic perspective Authors : Paolo Bergese, Giulio Oliviero, Stefania Federici, Daniele Maiolo, Paolo Colombi, Laura E. Depero Laboratorio di Chimica per le tecnologie e INSTM, Università degli Studi di Brescia, via Branze, 38, 25123, Brescia	9 1
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- 14:30** **Two aptamer-based hydrodynamic assay for protein detection**
Authors : A. Trapaidze 1,2, A. Bancaud 1,2, A. Esteve 1,2 , F. Severac1,2, D. Esteve 1,2, A.M. Gue1,2 1CNRS: LAAS; 7 avenue du colonel Roche, F-31077 Toulouse, France 2Université de Toulouse; UPS, INSA, INP, ISAE, LAAS ; F-31077 Toulouse, France 9 2
- [+](#) add to my program [↗](#) (view full abstract)
- 14:50** **Magnetic nanoparticles for immunoassay : improvement of magnetic detection, surface functionalization and nanoprobes**
Authors : Caroline de Beaucorpsa, Farah Benyettoua, Irena Milosevica, Yoann Lalatonnea,b, Laurence Mottea a) Laboratoire CSPBAT UMR 7244 CNRS, University of Paris 13,Bobigny, 93017, France b) Service M?cine Nucl?re, H?al Avicenne, Bobigny, 93000, France 9 3
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- 15:10** **Chemical classification through nanowire sensor arrays**
Authors : A. O. Niskanen, A. Colli, R. White, H. Li, E. Spigone, J. M. Kivioja Nokia Research Center, 21 J. J. Thomson Avenue, Cambridge CB3 0FA, UK 9 4
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- 15:30** **Coffee break**
- 16:00** **Cellular uptake of functionalised gold nanoparticles**
Authors : Mathias Brust, Department of Chemistry, University of Liverpool, Liverpool L69 7ZD, UK 9 5
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- 16:30** **Gold nanoparticle colorimetric sensing of small molecules through enzymatic cleavage protection of aptamers**
Authors : Valérie Guieu,1 Corinne Ravelet,1 Sandrine Perrier,1 Simon Cayez,2 Eric Peyrin1 1Department of Molecular Pharmacochemistry, UMR 5063 CNRS, ICMG FR 2607, University of Grenoble, Saint-Martin d'Hères, France, 2LPCNO, INSA, UMR CNRS 5215, University of Toulouse, Toulouse, France. 9 6
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- 16:50** **Synthesis of FePt magnetic nanoparticles for multi-modal molecular imaging and radiation therapy adjuvant**
Authors : Dar-Bin Shieh, Inst. Oral Medicine, National Cheng Kung University College of Medicine and Hospital, Tainan, Taiwan Hai-Wen Chen, Dept. Radiology, National Cheng Kung University College of Medicine and Hospital, Tainan, Taiwan Shang-Wei Chou, Department of Chemistry, National Taiwan Normal University, Taipei, Taiwan Ping-Ching Wu, Inst. Oral Medicine, National Cheng Kung University College of Medicine and Hospital, Tainan, Taiwan Yu-Sang Yang, Dept. Material Science, National Tsing Hua University, Hsinchu, Taiwan Chia-Chun Chen, Department of Chemistry, National Taiwan Normal University, Taipei, Taiwan 9 7
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- 17:10** **Conjugation of biologically active molecules to the passivation layer of gold nanoparticles for cellular targeting**
Authors : Roberto Fiammengo, Lisa Maus, Arthur Lint and Joachim P. Spatz Department of New Materials and Biosystems, Max-Planck-Institute for Metals Research, Stuttgart and Department of Biophysical Chemistry, University of Heidelberg 9 8
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- 19:00** **European Science Foundation Reception; location to be announced**
Authors : Conference Reception sponsored by the European Science Foundation, open to the attendees of symposium). Location to be announced. The ESF network "New approaches to biochemical sensing with plasmonic nanobiophotonics" (PLASMON-BIONANOSENSE) is an open grouping of major European research groups in the areas of photonic and biomolecular nanoscience. The network is open for outside participation and funds both staff exchanges and conferences/workshops. More details can be found on <http://www.esf.org/plasmon>. 10 1
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