

NanoMed 2018 / EGF 2018 / SMS 2018 Joint Conferences Program

October 23, 2018 NanoMed 2018 - Plenary session I Conference Room 1E		
Session's Chairs: Prof. Silvia Marchesan, University of Trieste, Italy Prof. Elena Vismara, Politecnico di Milano, Italy Prof. Patrizia Canton, Ca' Foscari University of Venice, Italy		
08:30 - 12:00	Registration	Registration Area
10:00 - 10:30	Coffee Break / Posters Session I	Coffee Break Area
10:30 - 11:00	Tapered optical probes and optrodes for optogenetics and neurophotonics. M.De Vittorio and F.Pisanello	Prof. Massimo De Vittorio , Italian Institute of Technology, Italy
11:00 - 11:30	Nanomaterial Implications for Parkinsons Disease: Silver Nanoparticles Inhibits Catechol O-methyltransferase. A. Usman, K. Lobb, BI Pletschke, BS Wilhelmi and CG Whiteley	Prof. Chris Whiteley , Rhodes University, South Africa
11:30- 12:00	Nanocarbons shape matters. A journey towards biomaterials S. Marchesan	Prof. Silvia Marchesan , University of Trieste, Italy
12:00 - 14:00	Lunch Break	Restaurant

October 23, 2018 NanoMed 2018 - Session I: Bionanomaterials synthesis and characterization/ Nanomaterials for Medicine Conference Room 1E		
Session's Chairs: Prof Massimo De Vittorio, Italian Institute of Technology, Italy Prof. Chris Whiteley, Rhodes University, S. Africa Dr. Cleofe Palocci, University of Rome "La Sapienza", Italy Dr. Ilaria Tonazzini, Erasmus Medical Center, Netherlands		
14:00 - 14:15	The vault complex: production and studies on its usage as nano-vector E. Galbiati , M. Pozzi, M. Colombo, D. Prospero and P. Tortora	Dr. Elisabetta Galbiati , University of Milano-Bicocca, Italy
14:15 - 14:30	Titanium dioxide coating of porous silicon microparticles towards nanomedicine applications E. Chisté , M. Donini, V. Cremers, J. Dendooven, C. Detavernier, M. Scarpa, S. Dusi and N. Daldosso	Ms. Elena Chisté , University of Verona, Italy
14:30 - 14:45	Structure and properties of composite TiO ₂ +TiN diffusive surface layers produced on NiTi shape memory alloys J. Witkowska , A. Sowińska, E. Czarnowska, T. Płociński and T. Wierchoń	Mrs. Justyna Witkowska , Warsaw University of Technology, Poland
14:45 - 15:00	Hybrid self-assembly of quantum dots and gold nanoparticles driven by protein pairing M. Fernandez, L. Moreaud, A. Burel, A. Urvoas, M. Valerio-Lepiniec, E. Dujardin, P. Minard, P. Even-Hernandez and V. Marchi	Dr. Valérie Marchi , CNRS-Rennes University, France
15:00 - 15:15	Synthesis and characterization of SPIONs for smart theranostics J.C. Matos , M.C. Gonçalves., L.C.J. Pereira and J.C. Waerenborgh	Ms. Joana Matos , Lisbon University, Portugal
15:15 - 15:30	Microfluidic technologies for biomaterials nanofabrication for drug delivery applications C.Palocci , L..Chronopoulou and A. Di Nitto	Dr. Cleofe Palocci , University of Rome "La Sapienza", Italy

15:30 - 15:45	NIR Photo-triggered hybrid copper sulphide nanoparticles functionalized with thermo-responsive polymers for on-demand drug delivery I. Ortiz de Solorzano , T. Alejo, M. Abad, C. Bueno-Alejo, G. Mendoza, V. Andreu, S. Irusta, V. Sebastian and M. Arruebo	Ms. Isabel Ortiz de Solorzano , University of Zaragoza, Spain
15:45 - 16:00	Study of neuronal guidance dynamics in neurodevelopmental disorders models by nano-engineered platforms I. Tonazzini , C. Masciullo, G.M. Van Woerden, M. Cecchini and Y. Elgersma	Dr. Ilaria Tonazzini , Erasmus Medical Center, Netherlands / Nanoscience Institute – CNR, Italy
16:00 - 16:30	Coffee Break / Posters Session I	Coffee Break Area
16:30 - 16:45	Biological characterization of osteoblast/osteoclast cell growth on polyamidoamine-coated bidimensional Buckypapers. A. Paolini , G. Battafarano, V. D’Oria, F. Mura, S. Sennato, V. Mussi, R. Risoluti, S. Materazzi, A. Del Fattore and A. Masotti.	Dr. Alessandro Paolini , Bambino Gesù Children's Hospital, Italy
16:45 - 17:00	Sorption and Desorption of Glycopeptide Antibiotics on the Surface of Nanocomposite PolyGraphene. A.S. Botin , V.N. Buravtsev, L.A. Baratova, A.V. Timofeeva, G.S. Katrukha, I.I. Han and T.S. Popova	Dr. Alexander Botin , Peoples’ Friendship University of Russia-Moscow, Russia
17:00 - 17:15	Novel ultrashort self-assembling peptide bioinks for 3D culture of muscle myoblast cells W. Arab , S. Rauf, O. Al-Harbi and C.A. E. Hauser	Ms. Wafaa Arab , King Abdullah University of Science and Technology, Saudi Arabia
17:15 – 17:30	Incorporation of microgels in PLA monofilaments by wet spinning G-P. Paar , P. Reitzenstein, C. Molano-López, A. Pich, T. Gries, S. Jockenhoevel and A. Blaeser	Mr. Georg-Philipp Paar , RWTH Aachen University, Germany
17:30-17:45	Bacterial Cellulose Membrane with Functional Properties A.S. Monteiro , R.R. Domeneguetti, M.W. Chi Man, H.S. Barud, C.Carcel and S.J. L. Ribeiro	Ms. Andreia Monteiro , São Paulo State University, Brazil

October 23, 2018		
EGF 2018 / SMS 2018 - Plenary session I		
Conference Room 1G		
Session's Chairs: Prof. Alberto Fina, Polytechnic University of Turin, Italy Prof. Luciana DI Gaspare, Roma Tre University, Italy		
08:30 - 12:00	Registration	Registration Area
10:00 - 10:30	Coffee Break / Posters Session I	Coffee Break Area
10:30 - 11:00	Towards future applications of graphene and other 2D materials - The Technology and Innovation Roadmap (TIR) of the Graphene Flagship T. Reiss	Prof. Thomas Reiss , Fraunhofer Institute for Systems and Innovation Research ISI, Germany
11:00 - 11:30	Germanene: graphene's little sister H.J.W. Zandvliet	Prof. Harold J.W. Zandvliet , University of Twente, Netherlands
11:30 - 12:00	Graphene Oxide Liquid Crystal and Relevant Functional Nanoscale Graphene Assembly S.O. Kim	Prof. Sang Ouk Kim , KAIST, Rep. of Korea
12:00 - 12:15	Reversible generation of large retractive tensile forces in isometric chemo-mechanical actuators composed of nanocomposite hydrogels and aqueous NaCl solutions K. Haraguchi , Y. Kimura and S. Shimizu	Prof. Kazutoshi Haraguchi , Nihon University, Japan
12:15- 12:30	Biomimetic approaches targeting dairy fouling mitigation of stainless steel M. Jimenez , S. Zouaghi, M. Barry, S. Bellayer, S. Moradi, S.G. Hatzikiriakos, T. Dargent, V. Thomy, Y. Coffinier, C. André, M.A. Grunlan and G. Delaplace	Prof. Maude Jimenez , University of Lille, France
12:00 - 14:00	Lunch Break	Restaurant

October 23, 2018		
EGF 2018 - Session I:		
Graphene synthesis, Growth, Functionalization and Characterization		
Conference Room 1G		
Session's Chairs: Prof. Harold J.W. Zandvliet, University of Twente, Netherlands Prof. Sang Ouk Kim, KAIST, Rep. of Korea Prof. Andre Schirmeisen, Justus-Liebig-University,, Germany		
14:00 - 14:30	Graphene vs. Heat Transfer: from thermally conductive nanomaterials to heat sheilding under flame exposure A. Fina	Prof. Alberto Fina , Polytechnic University Of Turin, Italy
14:30 - 15:00	Coordination chemistry of metal-containing molecules with graphene-based materials and their catalytic applications S. Park	Prof. Sungjin Park , Inha University, Rep. of Korea
15:00 - 15:30	Tunable Graphene-based Membranes K. Huang and R.Nair	Prof. Rahul R.Nair , Manchester University, UK
15:30 - 15:45	Cristallization path of CVD graphene on Ge(001) substrate L. Di Gaspare , L. Persichetti, F. Fabbri, A. Sgarlata, M. Fanfoni, A. Notargiacomo, A. M. Scaparro, V. Miseikis, C. Coletti and M. De Seta	Prof. luciana DI Gaspare , Roma Tre University, Italy
15:45 - 16:00	Spontaneous deformations of carbon nanotubes: twisting and shrinking A. Pérez-Obiol and V. Jakubský	Dr. Axel Pérez-Obiol , Kochi University of Technology, Japan
16:00 - 16:30	Coffee Break / Posters Session I	Coffee Break Area
16:30 – 16:45	TAO-DFT and Its Applications to Carbon Nanomaterials J-D. Chai	Prof. Jeng-Da Chai , Nat. Taiwan University, Taiwan
16:45 - 17:00	Multilayered graphene grafted copper wires L-W. Jang , L. Zhang, M. Menghini, H. Cho, J.Y. Hwang, D.I. Son, J-P. Locquet and J.W. Seo	Dr. Lee-Woon Jang , Catholic University of Leuven, Belgium

17:00 - 17:15	Grafting of polymer chains onto graphite oxide sheets: Towards the design of functional composites A.Guimont, A. Dhahri, M. Hassen V Baouab and E. Beyou	Prof. Emmanuel Beyou , Lyon University, France
17:15 - 17:30	Towards Modified Graphene Oxide and Functional Derivatives for Industrial Applications B. Gjoka and R. Wendelbo	Dr. Blerina Gjoka , Abalonyx As, Norway
17:30 - 17:45	Synthesis of Multifunctional Graphene Based Nanocomposites for 3D Printing Applications M. Soria Sánchez and G. Tobías Rossell	Dr. Maria Soria Sanchez , Institute of Material Science of Barcelona- ICMAB (CSIC), Spain
17:45 - 18:00	Controlled pore tuning on freestanding graphene using focused ion beam and electron beam induced platinum deposition T. Ashirov , D. Aibek uulu, K. Celebi and A. Coskun	Mr. Timur Ashirov , University of Fribourg, Switzerland
18:00 - 18:15	Carbon atomic structures promoting twisted growth of second Graphene layer at magic angles 21.78o and 27.8o. G. Gawlik , Z. Koziol, J. Jagielski and P. Ciepielewski	Dr. Grzegorz Gawlik , Institute of Electronic Materials Technology, Poland
18:15- 18:30	Advances in graphene preparation through chemical routes – detailed characterization and application V. Skákalova , M. Hulman, C. Hofer, V. Vretenár and P. Kotrusz	Dr. Viera Skákalová , University of Vienna, Austria
October 23, 2018		
SMS 2018 - Session I:		
Novel Materials, Micro/Nanosystems, Composite and Functional Materials		
Conference Room 5X		
Session's Chairs:		
Prof. Maude Jimenez, University of Lille, France		
Dr. Giuseppe Forte, University of Catania, Italy		
Prof. Regina Paszkiewicz, Wroclaw University of Science and Technology, Poland		
14:00 - 14:15	Silicon-Carbon Films Synthesis by High-Frequency Deposition A.Temirov , I. Kubasov, R. Zhukov, D. Kiselev, M. Malinkovich and Y. Parkhomenko	Mr. Alexander Temirov , National University of Science and Technology, Russia
14:15 - 14:30	Static Alignment of Polyvinylidene Fluoride nanofibers by electrospinning M. Fawzy, E. Elnabawy, A. Hassanain and N. Shehata	Dr. Nader Shehata , Alexandria University, Egypt
14:30 - 14:45	Spinel MgFe ₂ O ₄ nanoparticles prepared by two way sol-gel method for photocatalytic application A.Kurbanova , G.Demeuova, O.Maut, M. Baisaryev, O.Ualibek, O.Toktarbaiuly, G.Sugurbekova	Dr. Aliya Kurbanova , Nazarbayev University, Kazakhstan
14:45 - 15:00	Distributed control for a morphing wing with a macro fiber composite actuator F. Svoboda and M. Hromcik	Mr. Filip Svoboda , Czech Technical University in Prague,, Czech Republic
15:00 - 15:15	Control of Vibration Suppression of Planar Structures Using Actuation by Clusters of Piezopatches J. Volech , Z. Šika, F. Svoboda, M. Hromčík, J. Zavřel and J. Karlíček	Mr. Jiri Volech , Czech Technical University in Prague, Czech Republic
15:15 - 15:30	Self-stratifying fire retardant coatings C. Lemesle , A. Beaugendre, S. Bourbigot, S. Duquesne, A.S. Schuller, M. Casetta and M. Jimenez	Ms. Charlotte Lemesle , University of Lille, France
15:30 - 15:45	Water and Thermally-Induced Scratch Healing Metallo-Supramolecular Amphiphilic Polymer Conetworks C. Mugemana , P. Grysan, R. Dieden, D. Ruch, N. Bruns and P. Dubois	Dr. Clément Mugemana , Luxembourg Institute of Science and Technology, Luxembourg
15:45- 16:00	Sensing fT magnetic fields by magnetoelectric metglas / bidomain γ +140°-cut lithium niobate composite A.V. Turutin , J.V. Vidal, I.V. Kubasov, A.M. Kislyuk, M.D. Malinkovich, S.P. Kobeleva and N.A. Sobolev	Mr. Andrei Turutin , National University of Science and Technology, Russia
16:00 - 16:30	Coffee Break / Posters Session I	Coffee Break Area

16:30 – 16:45	High Temperature Sensor For Detecting Low Frequency Vibrations I. V. Kubasov , A. M. Kislyuk, A. V. Turutin, A. A. Temirov, R. N Zhukov, A. S. Bykov, M. D. Malinkovich and Y. N. Parkhomenko1	Mr. Ilya Kubasov , National University of Science and Technology, Russia
16:45 - 17:00	Electrodeposition of biopolymer layers on fibrous matrices – pre-liminary results E. Pabjanczyk-Wlazio , G. Szparaga and Z. Draczynski	Mrs. Ewelina Pabjańczyk-Wlazio , Lodz University of Technology, Poland
17:00 - 17:15	Anti-wetting Behavior of Mussel-inspired Materials Coated Anti-fouling Membrane S.J. Choi , S.S Kim, D.S. Hwang, A. Jang and S. Kang	Mr. Seungju Choi , Korea advanced institute of science and technology, Rep. of Korea
17:15 - 17:30	Synthesis of thermoelectric magnesium-silicide pastes for 3D printing and electrospinning A.C. Marques , D. Miglietta, A.C. Baptista, G. Gaspar, A. Gaspar, C. Bianquin R.C. da Silva, A. Gonçalves, F. Giorgis and I. Ferreira	Dr. Ana Marques , FCT-UNL, Portugal

October 24, 2018		
NanoMed 2018 - Plenary session II: Nanotechnology in Therapy / Pharmaceutical Nanotechnology		
Conference Room 1E		
Session's Chairs: Prof. Valentina Cauda, Polytechnic University of Turin, Italy Dr. Davide Prosperi, University of Milano-Bicocca, Italy Dr. Fabrizia Cesca, Italian Institute of Technology- Genova, Italy		
09:00 - 09:30	Local and targeted delivery of nanomedicines for the treatment of glioblastoma V.Preat , C.Bastiancich, P.Ganipineni, EL. Bozzato, M.Zhao, J.Bianco and F.Danhier	Prof. Veronique Preat , University of Louvain, Belgium
09:30 - 10:00	Nanoparticle based approaches to induce long term immune tolerance to allografts F. Granucci	Prof. Francesca Granucci , University of Milano-Bicocca, Italy
10:00 - 10:30	Smart Hybrid nanocrystals as Trojan horses for effective theranostic applications V. Cauda , B. Dumontel, F. Susa, M. Canta, L. Racca, A. Ancona, N. Garino, T. Limongi, G. Canavese and M. Laurenti	Prof. Valentina Cauda , Polytechnic University of Turin, Italy
10:30 - 11:00	Coffee Break / Posters Session II	Coffee Break Area
11:00 - 11:30	Bioengineered colloidal nanoparticles for therapeutic applications M. Colombo	Prof. Miriam Colombo , University of Milano-Bicocca, Italy
11:30- 12:00	Bioelectronic Platform for Programmable Capture and Release of Circulating Tumor Cells P. Chen	Prof. Peilin Chen , Academia Sinica, Taiwan
12:00-12:15	Targeted vaccine delivery using functionalized gold nanocages characterized in small intestine organoid system C. Yu , T. Tong, Q. Wang and C. Miller	Dr. Chenxu Yu , Iowa State University, USA
12:30 - 14:00	Lunch Break	Restaurant

October 24, 2018		
NanoMed 2018 - Session II: Nanotechnology in Therapy / Pharmaceutical Nanotechnology		
Session's Chairs: Prof. Veronique Preat, University of Louvain, Belgium Prof. Miriam Colombo, University of Milano-Bicocca, Italy Prof. Sophia Hatziantoniou, University of Patras, Greece		
14:00 - 14:15	Glycosaminoglycan-Coated Superparamagnetic Iron Oxide Nanoparticles for Theranostic Applications C. Bongio , M. Mauri, G. Torri and E. Vismara	Mrs. Chiara Bongio , Politecnico di Milano, Italy
14:15 - 14:30	Conjugation with anti-transferrin receptor antibody increases PLGA nanoparticles uptake in Glioblastoma cells M. J. Ramalho , J. Lima, M. A. N. Coelho, J. A. Loureiro and M. C. Pereira	Ms. Maria João Ramalho , Porto University, Portugal
14:30 - 14:45	Targeted Multifunctional Theranostic Nanoparticle for Efficient Tumor Imaging and Therapy J. Lee and W. I. Choi	Dr. Won Il Choi , Korea Institute of Ceramic Engineering and Technology (KICET), Rep. of Korea
14:45 - 15:00	New compounds for targeted photodynamic therapy of cancer T. Michy , C. Bernard, X. Jiang, J.L. Coll, I. Texier, A. Hurbin, G. Royal and V. Josserand	Dr. Thierry Michy , University Grenoble Hospital, France
15:00- 15:15	Application of hydroxyapatite as an innovative carrier for bacteriophages A. Fulgione , M. Iannaccone, M. Papaianni, F. Contaldi, C. Colletti, M. Lelli, N. Roveri and R. Capparelli	Dr. Andrea Fulgione , University of Sannio, Italy

15:15 - 15:30	Pemetrexed-loaded nanoparticles targeted to malignant pleural mesothelioma cells: an in vitro study L. Pandolfi , E. Cova, S. Inghilleri, M. Morosini, V. Frangipane, S. Mrakic-Sposta, M. Colombo, P. Morbini, M. Monti, G. Stella, Y. Pignochino, S. Benvenuti, D. Prospero and F. Meloni.	Dr. Laura Pandolfi , Foundation IRCCS Polyclinic San Matteo, Italy
15:30 - 15:45	Preparation and characterization of Pistacia Lentiscus var. Chia essential oil-loaded poly(lactic acid) nanoparticles as novel wound healing agent I. Vrouvaki, E. Koutra, M. Kornaros, K. Avgoustakis, F. N. Lamari and S. Hatziantoniou	Prof. Sophia Hatziantoniou , University of Patras, Greece
15:45 - 16:00	Graphene and the Brain: the Neurobiology of the Interaction between Graphene and Primary Neurons, Astrocytes and Microglia F. Cesca , M. Bramini and F. Benfenati	Dr. Fabrizia Cesca , Italian Institute of Technology, Genova, Italy
16:00 - 16:30	Coffee Break / Posters Session II	Coffee Break Area
16:30 - 16:45	A new lipopolyplex formulation with enhanced dendritic cell-targeting ability for mRNA/adjuvant vaccine delivery S. Persano and M.L. Guevara	Dr. Stefano Persano , University of Ottawa/CHEO Research Institute, Canada
16:45 - 17:00	Biophysical and biological contributions of polyamine-coated carbon nanotubes and bidimensional buckypapers in the delivery of miRNAs to human cells A. Celluzzi, A. Paolini, V. D'Oria, R. Risoluti, S. Materazzi, M. Pezzullo, S. Casciardi, S. Sennato, F. Bordi and A. Masotti	Dr. Andrea Masotti , Bambino Gesù Children's Hospital, IRCCS, Italy
17:00 - 17:15	Polyamine-coated carboxylated carbon nanotubes (CNTs-COOH) and nanohorns (NHs-COOH) in the delivery of miRNAs to human cells A. Celluzzi , A. Paolini, L. Lo Tufo, Z Abbaszadeh, R. Risoluti, S. Materazzi, D. Pozzi, G. Caracciolo and A. Masotti	Dr. Antonella Celluzzi , Bambino Gesù Children's Hospital, IRCCS, Italy
17:15 - 17:30	The effect of surface functionalization and pH on protein-gold nanoparticle interactions B. Meesaragandla , I. Garcia, L.M. Liz-Marzán and M. Delcea	Dr. Brahmaiah Meesaragandla , University of Greifswald, Germany

October 24, 2018		
EGF 2018 / SMS 2018 - Joint Plenary Session		
Conference Room 1G		
Session's Chairs:		
Prof. Guenther Benstetter, Deggendorf Institute of Technology, Germany		
Prof. Luciana Di Gaspare, Roma Tre University, Italy		
09:30 - 10:00	Infrared and THz inter-subband optics of few-layer 2D materials C. Yelgel	Dr. Celal Yelgel National Graphene Institute, Univ. Of Manchester, UK
10:00 - 10:30	Smart Inspection Tools for Zero Defect Manufacturing Strategy C. Cristalli	Dr. Cristina Cristalli , Loccioni Research for Innovation, Italy
10:30 - 11:00	Coffee Break / Posters Session II	Coffee Break Area
11:00 - 11:30	Nanotechnology-based nanocoating and printed electronics in Smart Textiles A. B. Costa	Mr. António Braz Costa , CITEVE, Portuguese Technological Centre for Textile and Clothing Industries, Portugal
11:30- 12:00	Textile Sensors, Actuators and Energy Systems A.Schwarz-Pfeiffer , C. Grassmann, M. Normann, N. Nolden, K. Zöll and T. Grethe	Prof. Anne Schwarz-Pfeiffer , Hochschule Niederrhein University of Applied Sciences, Germany
12:00-12:15	Smart carbon based textile reinforcement for sensing infiltration of water in concrete structures G. Dittel , Y. Goldfeld, G. Perry, T. Quadflieg and T. Gries	Mrs. Gözdem Dittel , RWTH Aachen University, Germany
12:00 - 14:00	Lunch Break	Restaurant

October 24, 2018		
EGF 2018 / SMS 2018 - Joint Session II:		
Novel Materials / Graphene for Energy and Environment applications		
Conference Room 1G		
Session's Chairs:		
Prof. Elena Voloshina, University of Shanghai, China		
Dr. Cristina Cristalli, Loccioni, Research for Innovation, Italy		
Dr. Pierre Legagneux, Thales R&T- Palaiseau, France		
14:00 - 14:30	Graphene Quantum Electromechanical Systems C. Stampfer	Prof. Christoph Stampfer , RWTH Aachen University, Germany
14:30 - 15:00	Advances in Nanoscale Electrical and Thermal Characterization of Surfaces and Thin Films G. Benstetter , W. Lehermeier and C. Metzke	Prof. Guenther Benstetter , Deggendorf Institute of Technology, Germany
15:00 - 15:15	Molecular dynamics study of thermo-responsive oligomer endgrafted onto graphene oxide and quartz: the effect of the surface coverage G. Forte and G. Consiglio	Dr. Giuseppe Forte , University of Catania, Italy
15:15 - 15:30	Single Molecular Imaging of Fluorescent-Tagged Peptides Diffusing on a Surface of Boron Nitride P. Li , T. Seki, L. Sun and Y. Hayamizu	Ms. Peiying Li , Tokyo Institute of Technology, Japan
15:30 - 15:45	Nanographene oxide as an efficient photocatalyst in the degradation of Rhodamine 6 B dye and solvent free oxidation of benzyl alcohol. D. Theresa, N. Nagaraju, H. Kathyayini and S. Mathew	Dr. Shanty Mathew , St. Joseph's College Research Center, India .
15:45 - 16:00	Electrochemically Controlled Winding and Unwinding of HOPG Supported Carbon Nanoscroll H. Tarábková , Z. Zelinger and P. Janda	Dr. Hana Tarabkova , J. Heyrovský Institute, Czech Republic
16:00 - 16:30	Coffee Break / Posters Session II	Coffee Break Area

16:30 - 16:45	Graphene devices for high frequency optoelectronic applications P. Legagneux , A. Montanaro, O. Bezencenet, B. Poupet, J. Cholet, M-B. Martin, M. Rosticher and B. Placais	Dr. Pierre Legagneux , Thales R&T - Palaiseau, France
16:45 - 17:00	Photodetector based on CVD grown 2D materials in a van der Waals heterostructure B Sompalle , CD Liao, J Borme, V Saxena, F Cerqueira, S Sadewasser and P Alpuim	Mr. Balaji Sompalle , INL - International Iberian Nanotechnology Laboratory, Portugal
17:00 - 17:15	Electrochemical modulation of MoS2 photoluminescence behavior in various electrolyte aqueous solutions for potential biological sensing T. Seki , K. Yatsu and Y. Hayamizu	Mr. Takakazu Seki , Tokyo Institute of Technology, Japan
17:15 - 17:30	A fully organic battery made of electrospun fibers A.C. Baptista , I. Ropio, J.I. Martins, J.P. Borges and I. Ferreira	Dr. Ana Baptista , Faculty of Sciences and Technology (FCT NOVA), Portugal
17:30 - 17:45	Flexible Solid-State Supercapacitors Based on Tussock-Like Metal Oxide Nanowire Arrays X. Cao , J. Ø. Duus and Q. Chi	Mr. Xianyi Cao , Technical University of Denmark, Denmark
17:45 - 18:00	CuI-based thin films for planer, highly flexible and transparent p-n thermoelectric generators. B.M.Morais Faustino , J. Coroa, J. Faria, C. Bianchi, A. Marques and I. Ferreira	Dr. Miguel Morais Faustino , CENIMAT/ FCT UNL, Portugal
18:00- 18:15	Supraparticles-complex particles as smart objects for interactive materials and processes K. Mandel	Dr. Karl Mandel , Fraunhofer Institute for Silicate Research, Germany
18:15- 18:30	Graphene- based hybrids for solar thermal evaporation of saline water N. Laidani , F.Marchetti, H. Ullah, G. Gottardi, R. Bartali, M. Scarpa, E. Moser, S. Makhlof, I. Mitiche and O. Lamrous	Dr. Nadhira Laidani , Bruno Kessler Foundation, Italy
18:30- 18:45	Graphene oxide/TiO2 heterojunction for efficient photocatalytic degradation of persistent aquatic pollutants R. Zouzelka , M. Remzova, L. Brabec and J. Rathousky	Dr. Radek Zouzelka , J. Heyrovsky Institute, Czech Republic

October 24, 2018, 13:45 - 13:55

Conference Group Photo

At the conference venue

All conference participants are requested to be present for the Conference Group Photo

October 24, 2018, 19:00 - 21:30

Conference Diner

At the conference venue

All conference participants are invited to join

October 25, 2018

NanoMed 2018 - Session III:

Nanotechnology in Medical Diagnostics / Pharmaceutical Nanotechnology

Conference Room 1G

Session's Chairs:

Prof. Francesca Granucci, University of Milano-Bicocca, Italy

Prof. Paolo Ossi, Politecnico di Milano, Italy

09:00 - 09:15	Developing laser-synthesized optically-tuned SERS sensors for drug detection E. Fazio, S. Trusso, C. Zanchi, A. Lucotti, M. Santoro, S. Spadaro, F. Neri, M. Casazza, E. Ciusani, U. de Grazia, M. Tommasini and P.M. Ossi	Prof. Paolo Ossi , Politecnico di Milano, Italy
09:15 - 09:30	Plasmonic biosensors: a powerful tool in diagnostics A. Minopoli , B. Della Ventura, C. Schiattarella and R. Velotta	Mr. Antonio Minopoli , Napoli Federico II University, Italy
09:30 - 09:45	A novel optical biosensor for ochratoxin A based on aptamer-antibody sandwich assay and total internal reflection ellipsometry A.G. Al-Rubaye , A.Nabok, T. Smith, G. Catanante, J-L. Marty, E. Takacs and A. Szekacs	Mr. Ali Al Rubaye , Sheffield Hallam University, UK
09:45 - 10:00	Non-invasive monitoring of flap oxygenation using photoacoustic imaging M. Aribert, M. Henry, J.L. Coll, G. Bettega and V. Josserand	Dr. Veronique Josserand , INSERM-Grenoble Alpes University, France
10:00 - 10:30	Coffee Break	Coffee Break Area
10:30 - 10:45	Creating a sandwich assay of magnetic and gold nanoparticles for tau-protein quantification using ID-SERS Making Alzheimer's disease diagnosis reliable C Frank , V. Maurer, S. Wundrack, S.Schmidt, S. Zellmer, G. Garnweitner and R. Stosch	Dr. Claudia Frank , Federal Physical-Technical Institute, Germany
10:45 - 11:00	Functionalization of single-layer graphene transistors for immunoassays P. D. Cabral, E. Fernandes, M. F. Cerqueira, O. Bondarchuck, D. Y. Petrovykh, J. Borme and P. Alpuim	Ms Patricia Silva , International Iberian Nanotechnology Laboratory, Portugal
11:00 - 11:15	SI traceable quantification of hemoglobin using an ID-SERS active immunoassay S. Schmidt , C. Frank, S. Wundrack and R. Stosch	Mrs. Sarah Schmidt , Federal Physical-Technical Institute, Germany
11:15 - 11:30	Graphene Oxide acts as an imitative of Progesterone on sperm-oviduct interactions and sperm physiology M.Ramal-Sanchez , G.Tsikis, V. Labas, X. Druart, P. Mermillod, M.Saint-Dizier and N.Bernabò	Mrs. Marina Ramal Sánchez , University of Teramo, Italy
11:30 - 11:45	Detection and Characterization of Different Neuronal and Glial Populations of Plasma Exosomes by Surface Plasmon Resonance imaging S. Picciolini , A. Gualerzi, A. Sguassero, F. Gramatica, M. Masserini and M. Bedoni	Ms. Silvia Picciolini , Don Carlo Gnocchi Foundation IRCCS, Italy

October 25, 2018		
EGF 2018 / SMS 2018 - Joint Session III.A:		
Energy applications		
Conference Room 5X		
Session's Chairs:		
Dr Hui-Lin Chang, Micron Technology, Manassas VA, USA		
Prof Yuhei Hayamizu, Tokyo Insisitute of Technolog, Japan		
09:00 - 09:30	Multifunctional graphene composites I. Kinloch	Prof. Ian Kinloch , University of Manchester, UK
09:30 - 10:00	An emerging material application in nanoelectronic devices and electrical performance H-L Chang	Dr Hui-Lin Chang , Micron Technology, Manassas VA, USA
10:00 - 10:30	Coffee Break	Coffee Break Area
EGF 2018 / SMS 2018 - Session III. B: Biomedical applications		
10:30 - 11:00	Self-assembled peptides on two-dimensional nanomaterials as a molecular scaffold for biosensing Y. Hayamizu	Prof. Yuhei Hayamizu , Tokyo Insisitute of Technolog, Japan
11:00 - 11:15	Exploring the live matter interactions of bacteria and human cells with water exfoliated MoS2 nanosheets J. Kaur, M. Singh , C. Dell'Aversana, R. Benedetti, P. Giardina, M. Rossi, M. Valadan, A. Vergara, A. Cutarelli, A. Michela I. Montone, L. Altucci, F. Corrado, A. Nebbioso and C. Altucci	Mr. Manjot Singh , University of Naples, Federico II, Italy
11:15 - 11:30	Observation of lactobacillus activity by MoS2 Sensor S. Tezuka , T. Seki, T. Ohnishi, and Y. Hayamizu	Ms. Sayaka Tezuka , Tokyo Institute of Technology, Japan
11:30 - 11:45	Fatigue life prediction of styrenic block copolymers for the application to prosthetic hearth valves E. Biral , J. Stasiak, M. Serrani and G. Moggridge	Ms Eugenia Biral , University of Cambridge, United Kingdom
11:45-12:00	Design of polymer coatings on Nitinol: towards cardiovascular applications B. Arrotin , J. Delhalle, P. Dubois, L. Mespouille and Z. Mekhalif	Mr. Bastien Arrotin , University of Namur, Belgium
12:00- 12:15	The influence of monovalent counterions and ionic strength on the structure and permeability of polyelectrolyte multilayers M. Kolasinska-Sojka , P. Skowron, M. Włodek, M. Szuwarzynski, P. Nowak and P. Warszynski	Dr. Marta Kolasinska-Sojka , Jerzy Haber Institute of Catalysis and Surface Chemistry, Poland

October 23, 2018

NanoMed 2018 / EGF 2018 / SMS 2018 – Joint Posters Session I:
Synthesis / characterization / properties

Posters Hall

N.	Title	Author, Affiliation, Country
1.	Ag+Cu Ion Implantation Fluences Controlled Mechanical Properties, Cell Adhesion, and Antibacterial Property to TiN Coatings on Medical Titanium Alloy L. Li, M. L. Zhao, L. Dong and D. J. Li	Prof. Dejun Li , Tianjin Normal University, China
2.	Highly stable affibody-conjugated gold nanoparticles based on-hanced ELISA for dengue virus NS1 antigen J. Bang and S. Kim	Mr. Jinho Bang , Korea Institute of Ceramic Engineering and Technology, Rep. of Korea
3.	Fast and highly efficient antibody purification by the oriented immobilization of protein A on magnetic nanoparticles S. Kim	Dr. Sunghyun Kim , Korea Institute of Ceramic Engineering & Technology (KICET), Rep. of Korea
4.	A new approach for a physicochemical characterization of nano-particles in complex media: a pilot study. T. Bastogne , V. Jouan-Hureauux and M. Thomassin	Prof. Thierry Bastogne , Lorraine University, France
5.	Supramolecular Binding of Small Molecules on Self-Assembled Monolayer Protected Gold Nanoparticles S. Boccardo , D. Marson, Y. Yang, J. Trzcinski, S. Guldin and P. Posocco	Mrs. Silvia Boccardo , University of Trieste, Italy
6.	The functionalization of ZnO nanostructured coatings in metallic resorbable biomaterials towards personalized medicine M.M. Alves , S. Pinto, C. Santos and M.F. Montemor	Dr. Marta Alves , Lisbon University, Portugal
7.	A Silicon Nitride Nanopore Device on a Polymer Substrate with microsize pore W. Choi, C. Park, E. S. Jeon, K. Y. Chun, Y. R. Kim, K. B. Park, K. B. Kim, S. Na and C. -S. Han	Prof. Chang-Soo Han , Korea University- Seoul, Rep. of Korea
8.	Multimodal Targeted Nanoparticles for the Non-invasive Detection of Traumatic Brain Injury L.J. Cruz , M. Aswendt, M. Hoehn, E. Kaijzel, A. Chan and C. Löwik	Dr. Luis Javier Cruz , Leiden University Medical Center, The Netherlands
9.	Design, Obtention and Characterization of a Novel Bioactive Tri-layer Scaffold for Cartilage Tissue Engineering Y. Campos , G. Fuentes, A. Almirall and Luis J. Cruz	Ms. Yaima Campos , Leiden University Medical Center, The Netherlands
10.	Thermosensitive hydrogel as controlled-release platform for in-traarticular delivery of etanercept J.García , G. Fuentes, A. Almirall and L. J. Cruz	Ms. Jomarién García , Leiden University Medical Center, The Netherlands
11.	Trends within Point-of-care Platform Development – The Grow-ing Influence of Nanomaterials B. Regan , R. O' Kennedy and D. Collins	Mr. Brian Regan , Dublin City University, Ireland
12.	Influence of synthesis parameters on the properties of the nanocomposite graphene / MFe ₂ O ₄ (M=Ni, Co and Zn) Jedrzejewska, D. Sibera , R. Jedrzejewski, A. Bachmatiuk, R. Pelech and U. Narkiewicz	Dr. Daniel Sibera , West Pomeranian University of Technology, Poland
13.	Characterization of Nano-Graphenes and Graphene Nanoribbons by Atomic Force Microscopy with Atomic Precision D. Ebeling, Q. Zhong, L.F. Chi and A. Schirmeisen	Prof. Andre Schirmeisen , Justus-Liebig-University, Germany
14.	A Microwave Measurement Technique For 2D Material Characterization H. Krraoui , C. Tripon-Canseliet and I. Maksimovic	Dr. Houssemeddine Krraoui , UPMC University Paris 06, France
15.	Preparation of Highly Stable Black Phosphorus by Gold Decoration for High Performance Thermoelectric Generators Y.H. Kang , C.J. An, and S.Y. Cho	Mr. Young Hun Kang , Korea Research Institute of Chemical Technology, Rep. of Korea
16.	Modified consolidants of porous materials with enhanced performance M. Remzová , T.Brzicová and J. Rathouský	Ms. Monika Remzová , J. Heyrovsky Institute, Czech Republic

17.	Sol-gel synthesis of MeFe_2O_4 (Zn, Ni, Co, Cu and Mg) nanoparticles for water purification application G.Demeuova, A.Kurbanova, O.Mauit, M. Baisariyev, O. Ualibek, O. Toktarbaiuly and G. Sugurbekova	Dr.Gulzat Demeuova , Nazarbayev University, Kazakhstan
18.	Development of acoustic microscopy sensor with high resolution for characterization in thin films S. Lee, T. Park, D.Kwak and I. Park	Prof. Ik Keun Park , Seoul National University of Science and Technology, Rep. of Korea
19.	AlGaIn/GaN HEMT heterostructures for gas- and bio-chemical transducers B. Paszkiewicz, B.K.Paszkiewicz, M. Wosko, K. Indykiewicz and R. Paszkiewicz	Prof. Regina Paszkiewicz , Wroclaw University of Science and Technology, Poland
20.	Engineering Self-protected MAPbBr ₃ /Nitrogen-Doped Graphene Hybrids with High Stability for Photodetectors M. Liang , Y. Tang, C. Engelbrekt and Q. Chi	Mr. Mingli Liang , Technical University of Denmark, Denmark .
21.	Composition-Driven Magnetic and Structural Transformations in Doped Bismuth Ferrites U. Khomchanka and J. A. Paixão	Dr. Uladzimir Khomchanka , University of Coimbra, Portugal
22.	Electroluminescent Soft Elastomer Actuators with Adjustable Luminance B.G. Ha , J.Y. An, Y.R. Lee, and B.Y. Lee	Mr. BeomGil Ha , Korea University, Seoul, Rep. of Korea

October 24, 2018

NanoMed 2018 / EGF 2018 / SMS 2018 – Joint Posters Session II
Properties and applications

Posters Hall

1.	Mesoporous Silica Nanoparticles for Targeted Delivery of Chemotherapeutic Drugs S. A. P. Pereira, A. Rahikkala, P. Figueiredo, M. L. C. Passos, H. A. Santos, M. L. M. F. S. Saraiva and A. R. T. S. Araujo	Dr. André R.T.S. Araujo , Polytechnic Institute of Guarda, Portugal
2.	The antifibrotic effect of Imatinib loaded CD44 targeted gold nanoparticles (Im-CD44-GNP) relies on alveolar macrophage regulation V. Frangipane , F. Meloni, M. Morosini, V. Codullo, S. Magni, H. Recalde, S. Inghilleri, L. Pandolfi, G. Comolli, E. Cova, C. Montecuccio, M. Colombo and D. Prosperi	Dr Vanessa Frangipane , Foundation IRCCS Polyclinic San Matteo, Italy
3.	Therapeutic advantage of genetically engineered Salmonella typhimurium carrying small interfering RNA against inhibin alpha subunit in cancer treatment W. Yoon , Y. Yoo, Y. Seok Chae and S-H. Kee	Prof. Wonsuck Yoon , College of Medicine, Korea University, Rep. of Korea
4.	Incorporation of zinc phthalocyanine in biological nanovehicles for photodynamic cancer therapy P. Lara , R.V. Huis, S. Palma, M. Kogan and L.J.Cruz	Mr. Pablo Lara , Leiden University Medical Center, Netherlands
5.	Highly Efficient Protocol for Click Labeling of Biomolecules Using a Recyclable Cu ₂ O nanowire-catalyst A.Makki , D. Sawant, K-W. Huang and J. Eppinger	Dr. Arwa Makki , King Abdullah University of Science and Technology- KAUST, Saudi Arabia
6.	A fast and straightforward procedure for vault nanoparticle purification and the characterization of its endocytic uptake M. Pozzi , E. Galbiati, M. Colombo, D. Prosperi and P. Tortora	Ms. Maria Pozzi , University of Milano-Bicocca, Italy
7.	SERS-Active Microgels containing Highly Concentrated Gold Nanoparticles for Direct Analysis of Biological Fluids Y.H. Kim , S. Lee, D.J. Kim and S-H. Kim	Ms. Yeong Hwa Kim , KAIST-Daejeon, Rep. of Korea
8.	Possible effect of ionic fluid flow induced electric potential in a charged nano-channel on a diagnosis by POC S. Min and J. Hong	Prof. Junghwa Hong , Dept. Control & Instrument. Eng., Korea University, Rep. of Korea
9.	The toxicity effects of nano-particles on micro organism in bio-logical wastewater treatment process S.J. Im , S.H. Oh, S.H. Jeong and A.Jang	Mr. Sung Ju Im , Sungkyunkwan University, Rep. of Korea
10.	High intensity emitting Eu ³⁺ ,Bi ³⁺ :LaF ₃ nanoparticles for luminescence bioimaging and X-ray computed tomography. A.I. Becerro , D. González Mancebo, A. Corral, M. Balzercyk and M. Ocaña	Dr. Ana Isabel Becerro , Materials Science Institute of Seville, Spain
11.	Blood circulation promotion by Integrated Functional Mineral Crystal (IFMC) T. Hirata , T. Fujimoto, T. Nomura and K. Hatakeyama	Prof. Takamichi Hirata , Tokyo City University, Japan
12.	Surface coating determines toxic potential of iron oxide nanoparticles in renal cells M. Selc, N. Gregusova and A. Babelova	Dr. Andrea Babelova , Cancer Research Institute- BMC SAS, Slovakia
13.	A microfluidic model of the kidney – a platform for the determination of nephrotoxicity A. Gabelova , K. Kozics, M. Sramkova, P. Pechacova, K. Kopecka, T. Knoll and Y. Kohl	Dr. Alena Gabelova , Cancer Research Institute- BMC SAS, Slovakia
14.	Graphene Nanocomposites Polymer based Films for Gas Sensing M.Ehsani , M.Prosheva, R.Fajgar, J.Blazevska, R. Tomovska and Y.Joseph	Ms. Maryam Ehsani , Bergakademie Freiberg technical university, Germany
15.	Experimental investigation of the dynamic behaviour of Laminated Composite Reinforced with graphene using split Hopkinson pressure bars M. Chihi , M. Tarfaoui, K. Lafdi and C.Bouraoui	Dr. Manel Chihi , ENSTA Bretagne, France
16.	Thick Silica Foam Films with Aerogel-Like Thermal Conductivity and Bulk Density T. Kangur , M. Järvekülg and M. Timusk	Dr Triin Kangur , University of Tartu, Estonia

17.	Hybrid multi-material microbraids for through-thickness multifunctionality C. O’Keeffe , I. Partridge and G, Allegri	Ms. Caroline O’Keeffe , University of Bristol, United Kingdom
18.	Highly Integrated and Flexible Thermoelectric Module Fabricated by Bruch-cast Doping of a Highly Aligned Carbon Nanotube Web C.J. An, Y.H. Kang, and S. Y. Cho	Dr. Song Yun Cho , Korea Research Institute of Chemical Technology, Rep. of Korea
19.	Evaluation of Topography Effects of SThM Measurements on Thin Thermoelectric Films W. Lehermeier, C. Metzke, G. Benstetter , W. Frammelsberger	Prof. Guenther Benstetter , Deggendorf Institute of Technology, Germany
20.	Infectious risk after pose installation of prostheses and implants osteoarticular implants S. Azrou , M. Benamara, S. Berouaken ,R. Belouni, S. Abdi and M. Hamidani	Dr. Siham Azrou , University Saad Dahlab-Blida 1, Algeria
21.	Photo-instability of ternary-Halide MAPb(Br _{1-x} ylxCly) ₃ Perovaksite S-Y. Kim, H.J. Woo, H. Jo, S. Baek, J-H. Lee, J-J. Kim, S-W. Lee, and Y-W. Heo	Prof. Young-Woo Heo , Kyungpook National University, Rep. of Korea.