

## Preliminary program of the 2 day international workshop: “Healthcare and Life Science & Entrepreneurship”

- *Maximum capacity is 80 speakers;*
  - *28 April 39 speakers*
  - *29 April 41 speakers*
- *Status 1 march ; 59 speakers, 2-3 booths.*
  - *We yet need to reserve 5-8 presentation slots for early phase Spin Offs (keep slots open until April 1st )*

### Speakers considering to join and present

- **Norman Monroe**, Professor, Department of Mechanical and Materials Engineering Fulbright Scholar Awardee 2019 Florida International University, USA
- **Achillefs Kapanidis** group member possibly .
- **Fanny Caputo postdoc** / Sintef Norway
- **KD Weltmann**, INP Greifswald
- **Aya Zaki Shanti**, Research Associate, Biomedical Engineering, Khalifa University , Abu Dhabi, UAE

### Speakers confirmed but yet to be classified into a cluster

- **Wilfried Weigel**, Scienion
- **Anna Rita Fetoni**, Scienze dell'invecchiamento, neurologiche, ortopediche e della testa-collo , **Serena will contact her on title / cluster**
- **Ioannis Kakogiannos MSc** , IRIS Spain,
- **CSEM Switzerland via Samantha Paolotti**

### Booth reservations;

- **Nadir S.r.l.** Padova (PD) - Italy Plasma & Polymers
- **BioNavis Ltd**, Tampere, Finland
- **Surflay** *possibly*
- **MicroDrop GmbH** *possibly*

## Program Morning 28 April 2020

07.30	Hall open for table booth installations	
08.30	Doors open/coffee	
09.00	Welcome & Opening by Chair(s) Serena Danti and Pascal Colpo & Program Director Hugo de Haan	
09.10	Welcome from regional / local Pisa authorities	
9.20-9.50	Keynote; <b>Diego Mantovani</b> , PhD, FBSE, FASM <i>Laboratory for Biomaterials and Bioengineering, CRC-I, Dept of Min-Met-Materials Eng., &amp; University Hospital Research Center, Regenerative Medicine, Laval University, Quebec City, Canada</i> "Plasma-based surface modification and <i>active biomolecules</i> grafting for regenerative medicine"	
9.50-10.10	<b>Coffee Break @ Booth area</b>	
	Start parallel workshop sessions	
	<b>Surface modification, coating , self assembly, functionalization (1)</b>  Moderator: <b>Diego Mantovani</b>	<b>Bio-sensors, analytics , detection, inspection, Imaging (1)</b>  Moderator: <b>Alexander Belushkin</b> ,
10.10-10.30	<b>Gianni Pertici</b> , <i>Industrie Biomediche Insubri SA, Switzerland</i> , "Hydroxyapatite surface modification to enhance bone integration" (preference April 28)	<b>Alexander Belushkin</b> , <i>Institute of BioEngineering EPFL, Switzerland</i> , "Rapid and Digital Detection of Inflammatory Biomarkers Enabled by a Novel Portable Nanoplasmonic Imager"
10.30-10.50	<b>Paolo Scopece</b> , CEO <i>Nadir S.r.l. Padova (PD) -Italy</i> "Plasma surface modifications of 3D printed medical devices by mean of an innovative dual frequency excitations atmospheric plasma jet device"	<b>Radek Bombera</b> , <i>BioNavis Ltd, Tampere, Finland</i> , "MP-SPR for evaluation of nano-bio interfaces towards R&D and medical applications"
10.50-11.10	<b>Anna Maria Piras</b> , <i>University of Pisa, Italy</i> , "Quaternary ammonium chitosans grafted with $\beta$ -cyclodextrin for enhanced oral bioavailability of insoluble actives and therapeutic peptides"	<b>Heiner Linke</b> , <i>Lund University, Sweden</i> , "Order of magnitude contrast enhancement in optical biomarker detection by nanowire surfaces" (preliminary title)
11.10-11.30	<b>Ivan Ristić</b> , <i>University of Novi Sad, Serbia</i> , "Physico-chemical modification of poly(lactide): powerful tool for a preparation of multifunctional products"	<b>Nicola Funel</b> , PhD student, <i>Serena Danti group, Pisa, Italy</i> , working on <i>anatomy-pathology</i> samples for early detection
11.30-11.50	<b>Coffee Break @ Booth area</b>	
	<b>Surface modification, coating , self assembly, functionalization (2)</b>  Moderator: <b>Jaap den Toonder</b>	<b>Bio-sensors, analytics , detection, inspection, Imaging (2)</b>  Moderator: <b>Tomáš Homola</b>
11.50-12.10	<b>Jaap den Toonder</b> , <i>Eindhoven University of Technology, The Netherlands</i> , "Bioinspired active surfaces for fluid, particle, and cell manipulation"	<b>Tomáš Homola</b> , <i>CEPLANT, Czech Republic</i> , "Highly sensitive reduced graphene oxide sensors fabricated using cold atmospheric pressure hydrogen plasma for detection of small organic molecules" (prefer 28.4)
12.10-12.30	<b>Matteo Ghilli</b> , <i>University Hospital of Pisa, Italy</i> , "Breast implant associated-anaplastic large cell lymphoma: review"	<b>Jimena Alvarez</b> , , <i>Surflay Nanotec GmbH, Berlin, Germany</i> , PhD student <i>University of Groningen, UMCG, Department of Hematology, Section Immunohematology, Groningen, The Netherlands</i> "Low-Q Whispering Gallery Modes optical biosensors as model tumor cell surface for cancer immunotherapeutics development"
12.30-12.50	<b>Fiora Artusio</b> , <i>Politecnico di Torino, Italy</i> , "Functionalization of glass surfaces with SAMs: the effect of synthesis conditions and the application to pharmaceutical crystallization"	<b>Erik Smith</b> , (yet to confirm ) CEO <i>AlignND Systems</i> , <i>Biosensor Systems</i> , spin off <i>Heiner Linke, Lund University, Sweden</i>
12.50-13.00	Photo shoot participants	
13.00-14.10	<b>Lunch @ Booth area</b>	

## Program Afternoon 28 April 2020

<b>14.10-14.40</b>	keynote: <b>Yoann Roupioz</b> , Director of Research CNRS, Deputy Head of the SPRAM., Univ. Grenoble Alpes, CEA, INAC-SyMMES, Grenoble, France  <b>SPR imaging of peptide micro-arrays for wide spectrum sensing of pathogenic bacteria</b>		
	<b>Regenerative medicine, cell-material, organ-on-chip (1)</b>  Moderator:, <b>Jos Joore</b>	<b>Drug release, personalized nanomedicine and – control, Micro/nanofluidics (1)</b> Moderator: <b>Sivashankar Krishnamoorthy</b>	<b>Bio-sensors, analytics , detection, inspection, Imaging (3)</b>  Moderator <b>Yoann Roupioz</b> ,
<b>14.40-15.00</b>	<b>Jos Joore</b> , Mimetas - The Organ on a Chip Company, The Netherlands, <b>no title yet</b>	<b>Sivashankar Krishnamoorthy</b> , <i>Group Leader, Nano-Enabled Medicine and Cosmetics Group (NEMC) , Luxembourg Institute of Science and Technology (LIST)</i>	<b>Valerio Voliani</b> , <i>Istituto Italiano di Tecnologia (IIT), Italy, “Plasmonic ultras-small-in-nano theranostics: in&amp;out the organism”</i>
<b>15.00-15.20</b>	<b>Ana Martins</b> , Marie-Curie Researcher Italian Institute of Technology (IIT), <i>Laboratory of Nanotechnology for Precision Medicine, Genova, Italy, “Brain tumor-on-a-chip for the development of novel anti-cancer therapies”</i>	<b>Joost Lötters</b> , CTO, <i>Bronkhorst High-Tech BV, The Netherlands, “Demonstrator system for real-time in-line measurement of medicine mixtures” (can only on 28-4)</i>	<b>Mario D'Acunto</b> , <i>CNR-IBF, Italy, “Plasmon-Enhanced Raman Spectroscopy inside cells: what we can observe”</i>
<b>15.20-15.40</b>	<b>Carlos Domingues Mota</b> , <i>MERLN - Institute for Technology-Inspired Regenerative Medicine, Maastricjht, The Netherlands no title yet</i>	<b>Silvia Fare</b> , 3D printing of thermo-responsive hydrogels,	<b>John D. Brennan</b> , <i>Biointerfaces Institute, McMaster University, Hamilton, Canada, “Aptamer and DNAzyme Based Point-of-Care Devices for Infectious Disease Monitoring”</i>
<b>15.40-16.00</b>	<b>Coffee Break @ Booth area</b>		

	<b>Regenerative medicine, cell-material, organ-on-chip (2)</b> Moderator: <b>Irene Carmagnola</b>	<b>Drug release, personalized nanomedicine and – control, Micro/nanofluidics (2)</b> Moderator: <b>Wim de Malsche,</b>	<b>Biobased materials (1)</b> Moderator: <b>Francisco Martin-Martinez,</b>
<b>16.00-16.20</b>	<b>Irene Carmagnola</b> , Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy, „ <b>Design of bioartificial scaffolds as in vitro models of pathological human cardiac tissue</b> “	<b>Wim de Malsche</b> , , µFlow group, Department of Chemical Engineering, Vrije Universiteit Brussel, Belgium <b>Large scale monodisperse droplet and particle production using 3D nozzle arrays“</b>	<b>Francisco Martin-Martinez</b> , <i>College of Science, Swansea University, UK</i> , “ <b>Design and development of bioinspired biobased materials</b> ”
<b>16.20-16.40</b>	<b>Maciej Grajewski</b> , SG Papertronics B.V., Pharmaceutical Analysis, Groningen Research Institute of Pharmacy, The Netherlands „ <b>A protable quality contreol lab, from invention to product prototype“</b>	<b>Tommaso Sbrana / Daniele Cei</b> , IVTech srl , Massarosa (LU), Italy The next generation of in-vitro tests, „ advanced in-vitro models to help the rise of a personalized medicine „ <b>Speaker not registered yet</b>	<b>Dario Puppi</b> , <i>BIOlab Research Group, Department of Chemistry and Industrial Chemistry, University of Pisa, UdR INSTM-Pisa, University of Pisa, Italy</i> , " <b>Additive Manufacturing of Biopolymers</b> "
<b>16.40-17.00</b>	<b>Alessandra Fusco</b> , <i>Università della Campania ‘Luigi Vanvitelli’, Napoli, Italy</i> , “ <b>Cyprofloxacin loaded polymeric nanoparticles incorporated electrospun fibers with antiinflammatory and antimicrobial activity</b> ”	<b>Valeria Chiono</b> , <i>Politecnico di Torino, Department of Mechanical and Aerospace Engineering, and Polito Biomedlab, Turin, Italy</i> “ <b>Direct reprogramming of human cardiac fibroblasts towards the cardiac phenotype through non-viral approaches</b> ”	<b>Inna Kurganskaya</b> , <i>University of Bremen, Germany</i> , “ <b>Monte Carlo simulations of reactions at mineral surfaces: application to biogenic nano-materials</b> ”
<b>17.00-17.20</b>	<b>Maria Grazia Cascone</b> , <i>University of Pisa, Italy</i> “ <b>Biomimetic and bioactive materials for tissue engineering applications</b> ” <b>28 april only</b>	<b>Firm/spinoff</b>	<b>Giovanna Brusatin</b> , <i>University of Padova, Italy</i> , “ <b>NEW BIOMATERIALS AND MICROTECHNOLOGIES TO ENGINEER THE MICROENVIRONMENT OF TISSUE-SPECIFIC STEM CELLS</b>
<b>17.20-17.40</b>	<b>Maria Donatella Mariniello</b> , <i>University of Pisa, Italy</i> , “ <b>Development of an in vitro simulation system of breast cancer relapse using 3D fibroadipose tissue model to assess safety of post-mastectomy new tissue-engineered breast implants</b> ”	<b>Laura Astolfi</b> , <i>University of Padova, Padova</i> Biocompatibility tests on nanoparticles useful to develop inner ear therapies”	<b>Lily Thomas</b> , <i>Schools of Biosciences, Cardiff University, Cardiff, UK</i> , „ <b>Chitin Nanofibril Electrospray to functionalize biopolymeric surfaces</b>
<b>17.40-18.40</b>	Coffee Break (ISC Steering Committee Meeting)		
<b>19.00-23.00</b>	Social event / Dinner & musical event; <b>TBD location</b>		

**Program Morning 29 April 2020 3<sup>rd</sup> parallel only after two parallel are full**

07.50-8.50	<b>Coffee Break @ Booth area</b>		
	<b>Drug release, personalized nanomedicine and – control, Micro/nanofluidics (3)</b>  Moderator: <b>Bahareh Azimi</b>	<b>Regenerative medicine, cell-material, organ-on-chip (3)</b>  Moderator: <b>Nicola Origlia</b>	<b>BioPolymers, Biobased Materials (1)</b>  Moderator: <b>Patrizia Cinelli</b>
08.50-09.10	<b>Bahareh Azimi, INSTM and University of Pisa, Italy, "Surface-functionalized electrospun fibers for tissue engineering and drug delivery applications"</b>	<b>Nicola Origlia, Institute of Neuroscience - CNR, Italy, "Bypassing the BBB: strategies to target neurodegenerating neurons"</b>	Scientist
09.10-09.30	<b>Wilfried Weigel, Scienion, title TBD</b>	<b>Varsha Thakoersing, IMcoMET, The Netherlands (prefers morning session) Controlling the tumor microenvironment'</b>	firm
09.30-09.50	<b>Gianluca Ciardelli, Politecnico di Torino, Italy, "Precisely designed polymeric biomaterials for drug delivery and nanomedicine"</b>	<b>Caterina Cristallini, CNR-IPCF, Institute for Chemical and Physical Processes, Pisa, Italy" Nanoengineering for Cardiac Regeneration: a Wide Scenario from Computational to Physico-Chemical and Biological Strategies"</b>	<b>Patrizia Cinelli, Planet Bioplastics, Pisa, „Sustainable and compostable plastic products meeting circular economy approach“ / careful, teaching 28 &amp; 29th</b>
09.50-10.20	<b>Coffee Break @ Booth area</b>		
10.20-10.50	keynote: <b>Sue Anne Chew</b> , Dept. of Health & Biomedical Sciences, University of Texas Rio Grande Valley, TX, USA <b>"PLGA Scaffolds Fabricated with an Easy and Economical Mold-Less Technique for Different Applications"</b>		
	Moderator:	<b>Implant materials and surfaces, surgery (1)</b>  Moderator: <b>Raechelle A. D'Sa,</b>	<b>Possibly Entrepreneurship</b>  Moderator: <b>Hugo de Haan</b>
10.50-11.10		<b>Raechelle A. D'Sa, University of Liverpool, UK, "Nitric oxide releasing titanium surfaces for bone-integrating orthopaedic implants"</b>	Scientist/Spinoff 1
11.10-11.30		<b>Nihal Engin Vrana, Spartha Medical, France, "Personalisation of Host/Implant Interface via Multifunctional, Supramolecular Coatings: A Case of Valorisation of European Project Foreground"</b>	Scientist/Spinoff 2
11.30-11.50			Scientist/Spinoff 3
11.50-12.20	<b>Coffee Break @ Booth area</b>		
	<b>BioPolymers, Biobased Materials (3)</b>  Moderator:	<b>Implant materials and surfaces, surgery (2)</b>  Moderator: <b>Thomas Stoppe</b>	<b>Entrepreneurship</b>  Moderator: <b>Hugo</b>
12.20-12.40		<b>Thomas Stoppe, 1TU Dresden, Germany, "Trends in surgical therapy and diagnosis of middle ear diseases "</b>	Scientist/Spinoff 4
12.40-13.00	<b>Firm/spinoff</b>	<b>Firm/spinoff</b>	Scientist /Spinoff 5
13.00-13.20		<b>Paolo Parchi, Orthopedic Doctor, University of Pisa, Italy, „ osteogenic differentiation of hMSCs by interaction with polyethylene terephthalate nano gratings“</b>	Scientist/Spinoff 6

13.20-14.20	Lunch (when no ISC meeting time 14 <sup>th</sup> ; 13.45 meeting International Scientific Committee / ISC)
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Possibly 2<sup>nd</sup> talk of Diego Mantovani; Developing Scientific Survival Skills for Young Scientists

### Program Afternoon 29 April 2020

14.20	Workshop session	
	<b>BioPolymers, Biobased Materials (1)</b> Moderator: Branka Pilic	<b>Regenerative medicine, cell-material, organ-on-chip (4)</b> Moderator: Ipsita Roy,
14.20-14.40	Branka Pilic, <i>University of Novi Sad, Serbia</i> , "Functionalization of bio-based polymers surfaces targeting biomedical, cosmetics, and sanitary applications"	Ipsita Roy, Professor of Biomaterials, FIMMM, FRSB, FHEA, Kroto Research Institute, <i>University of Sheffield, UK</i> , Visiting Professor, National Heart and Lung Institute, Imperial College London, Editor: Journal of Chemical Technology and Biotechnology,
14.40-15.00	Maria Beatrice Coltelli, <i>INSTM, Italy</i> , "Biopolymers and nanostructured materials for large volume applications in skin contact products" (attending one day only, April 28 or 29, any)	Firm/spinoff
15.00-15.20	Clement Lacoste, "Biobased superabsorbant polymers (SAP) derived from recycled cellulose for sanitary applications"	José María Lagaron, subject probably electrospinning
15.20-15.40	Luana Persano, <i>National Research Council (CNR), Italy</i> , "Functionalized polymer nanostructures and nanofibers for biophysical studies of cell adhesion and lineage commitment"	Aya Zaki Shanti, (not confirmed yet) PhD Student, group Dr. Cesare Stefanini / <i>biorobotic systems</i> , Department of Biomedical Engineering Khalifa University Abu Dhabi, UAE
15.40-16.00	Open	Chiara Tonda-Turo, <i>Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy</i> , "Biomimetic nanofibrous membranes: a versatile substrate in biomedical applications" would prefer 28 april ?
16.00-16.30	Plenary Closure	