



Maastricht University

CNR NANOTECH *meets* CTR MERLN

LECCE, 29 | 30 SEPTEMBER 2022

SEMINAR ROOM 'RITA LEVI MONTALCINI'

COORDINATION

GIUSEPPE GIGLI, LORENZO MORONI

LOCAL ORGANISING COMMITTEE

GIANVITO DE IACO, FRANCESCA GERVASO, XENIA PAOLELLI, ALESSANDRO POLINI, GABRIELLA ZAMMILLO

Thursday 29 September	
9.00 – 9.30	Welcome - Tecnomed@Nanotec, MERLN@Maastricht University (Giuseppe Gigli, Lorenzo Moroni)
9.30 – 9.50	<i>Smart tools and materials for liquid biopsy</i> (Elisabetta Primiceri, CNR-Nanotec)
9.50 – 10.10	<i>A biofabricated hydrogel system containing microchannels for complex 3D in vitro cultures</i> (Adrian Seijas Gamardo, MERLN Institute)
10.10 – 10.30	<i>Advanced Imaging for research in neurodegenerative diseases</i> (Alessia Cedola, Giuseppe Palma, CNR-Nanotec)
10.30 – 10.50	<i>Kidney fibrosis in vitro model: from proof of concept to better disease in vitro models</i> (Gabriele Addario, MERLN Institute)
10.50 – 11.20	Coffee break
11.20 – 11.40	<i>Tumour microenvironment: unravelling the molecular links and cell response</i> (Barbara Cortese, Riccardo Rizzo, CNR-Nanotec)
11.40 – 11.50	<i>Synthesis, characterization and application of multifunctional systems for sensing at single-cell level</i> (Francesco Colella, CNR-Nanotec)
11.50 – 12.10	<i>Additive Manufacturing Technologies @ MERLN</i> (Pierpaolo Fucile, MERLN Institute)
12.10 – 12.30	<i>Personalized Organ-on-Chip systems</i> (Eleonora De Vitis, Xenia Paoletti, CNR-Nanotec)
12.30 – 12.50	<i>Introducing continuous materials in osteochondral constructs using a novel AM printhead</i> (Ivo Beeren, MERLN Institute)
12.50 – 13.10	<i>Nanoparticle-based Drug Delivery in Cancer Therapy</i> (Stefano Leporatti, Francesca Persano, CNR-Nanotec)
13.10 – 13.30	Discussion
13.30 – 14.30	Lunch
14.30 – 16.00	Lab tour@Nanotec & Poster session
16.00 – 18.00	Free meetings
<i>Visiting Lecce</i>	
20.30	Dinner

Friday 30 September	
9.00 – 9.10	Nanotec beside Tecnomed (Giuseppe Gigli)
9.10 – 9.40	<i>Synthetic Chemistry and Bioanalytical Methodologies</i> (Riccardo Scarfiello, Clara Piccirillo, Cinzia Citti – CNR-Nanotec)
9.40 – 10.10	<i>Bioprinting of complex and functional 3D tissue models</i> (Monize Caiado Decarli, MERLN Institute)
10.10 – 10.40	<i>Light and matter the perfect wedding</i> (Milena De Giorgi – CNR-Nanotec)
10.40 – 11.10	Coffee break
11.10 – 10.40	<i>A Biomimetic Approach towards Tympanic Membrane Reconstruction</i> (Shivesh Anand, MERLN Institute)
11.40 – 12.10	<i>Advanced optoelectronic devices for energy management</i> (Marco Pugliese, Antonella Giuri, Luisa De Marco – CNR-Nanotec)
12.10 – 12.30	Discussion
12.30 – 13.00	Conclusions

Poster Session – Thursday 29 September – 14.30-16.00

N.	Author	Poster Title
1	Carlo Giansante	<i>Colloidal Metal Chalcobalide Nanocrystals</i>
2	Riccardo Rizzo	<i>Membrane trafficking in health and disease</i>
3	Ilaria Cardace	<i>Bio-based Photoreceptors for Quantum Technologies</i>
4	Khadija Eddahaoui	<i>Redox organic molecules as cathode materials for lithium-ion batteries</i>
5	Simone Bruno	<i>Chromogenic Window for Energy Saving in Cooling-dominated Climates</i>
6	Eleonora De Vitis	<i>Microphysiological systems for the study of neurodegenerative diseases in vitro</i>
7	Antonella Stanzione	<i>Light and temperature dual-responsive interpenetrating polymer network for mimicking muscle tissue ECM</i>
8	Giulia Morello	<i>A thermo-sensitive semi-interpenetrating chitosan/ pectin network for 3D CRC spheroid culture</i>
9	Chiara Coricciati	<i>Modeling human gut and liver diseases in vitro</i>
10	Julia Fernandez Perez	<i>Small diameter artery scaffolds via additive manufacturing of thermoplastics and pro-angiogenic hydrogels</i>
11	Filipa Texeira	<i>Bioprinting of Pre-vascularized Spheroids for Bone Tissue Engineering</i>
12	Monize Caiado Decarli	<i>Engineering a temporomandibular joint structure inspired by the native architecture of a pig model</i>
13	Carlos Mota	<i>Development of a PDMS platform to support 3D spheroid generation</i>
14	Martyna Nikody	<i>Bioceramics and bioactive glasses - Bioactive Glasses From The SiO₂-CaO-Na₂O System With Angiogenic Properties For Bone Regeneration Application</i>
15	Joanna Babilotte	<i>Multi-Material Approach For The Replacement Of The Temporomandibular Joint</i>
16	Jiaping Li	<i>Osteoinductive porous Ti6Al4V-beta Tricalcium Phosphate Hybrid Scaffolds for Orthopedic Applications</i>
17	Tony Feliciano	<i>Dynamic Hydrogel Biinks for Tissue Regenerative Applications</i>
18	Clarissa Tomasina	<i>Biofabrication of vascularized constructs by iPSCs-derived endothelial cells bioprinting</i>
21	Alessandra Quarta	<i>Lipid nanovesicles for the photodynamic therapy of skin cancers</i>
22	Alessandra Quarta	<i>Nanoparticle-nanobody conjugates as novel contrast agents in Immuno-Histo X-ray Phase Contrast Tomography</i>
23	Anna Chiara Siciliano	<i>4D optical mapping of pH in 3D cell systems</i>
24	Francesco Colella	<i>Ratiometric sensing devices for 3D spatio-temporal mapping in cellular microenvironments</i>