

Preliminary program of the 2 day workshop:  
 “NanoBio Surfaces and Interfaces in Healthcare and Science”

Morning June 27<sup>th</sup>

7:00	Hal open for table booth installations				
8:00	Doors open/coffee				
8:30	Opening by Hugo de Haan and Jeroen Lammertyn				
8:40-9:10	1 <sup>st</sup> keynote Prof. Dr. <b>Jan de Boer</b> , MERLN/Maastricht University Materiomics BV. , “Digitizing life at the cell-biomaterials interface”				
9:10-9:20	Start up; Dr. <b>Bart Landyt</b> , Cellsine				
9:20-9:30	Start up; MBA <b>Philippe Stas</b> , Trinean				
9:30-10:10	Coffee / tea at the booth area				
Start parallel workshop sessions					
	<i>Human Diagnostic devices (Promotiezaal)</i> Moderators: <b>Jeroen Lammertyn</b>	Regenerative medicine at the nano scale, cell-material and interaction for organ-on-chip devices. <b>(Jubileumzaal)</b> Moderators: <b>Aart van Apeldoorn</b>	<i>Entrepreneurship Cases (Tiensestraat 41, Room 01.02)</i> By spinoff Professors and or founder/Entrepreneur Moderator: <b>Bart Clarisse</b>		
10:10-10:30	Prof. <b>Jeroen Lammertyn</b> , MeBios/KU Leuven, “Self-powered programmable microfluidic platform for point-of-care diagnostics”	Dr. <b>Aart van Apeldoorn</b> , Maastricht University, “Bioengineered delivery devices for clinical islet transplantation in type 1 diabetes”	10:10-10:20	Walking to tiensestraat	
10:30-10:50	Dr. <b>Bart Geers</b> , Ghent University, “Highly integrated biosensor devices, towards consumer-based diagnostics”	<b>Wouter Strijker</b> , Mimetas, “High-throughput compound evaluation on 3D networks of neurons and glia in a microfluidic platform”	10:20-10:50	<b>Xeltis BV</b> , Technology Officer, Dr. <b>Martijn Cox</b>	
10:50-11:10	Dr. <b>Marcella Chiari</b> , ICRM CNR, “A New Microarray approach for Ultra-Sensitive Genotyping of KRAS Gene Variants in Colorectal Cancer”	Dr. Ir. <b>Alquin Stevens</b> , Innophysics BV, “Digital surface modifications for microfluidics and biosensor applications”	10:50-11:20	<b>Medimate/CE-Mate BV</b> , general director, Ir. <b>Steven Staal</b>	
11:10-11:30	Dr. <b>Sivashankar Krishnamoorthy</b> , NEMC MRT LIST, “Plasmonic Nanoarrays With Sub-10nm Spatial Resolutions For Highly Sensitive Molecular Sensing and Potential Application To Human Diagnostic Devices”	Dr. <b>Serena Danti</b> , University of Pisa, “Nanostructured and nanocomposite membranes to replace ear function”	11:20-11:55	<b>Bronkhorst high-tech BV</b> , Technical director, Dr. Ir. <b>Wybren Jousma</b>	
11:30-12:05	Coffee Break / booth demos			11:55-12:05	break
12:05-12:25	Dr. <b>Winfried Arens</b> , IMT Masken un Teilung AG, “Nano patterning bio-active material for the life-sciences industry”	Prof. Dr. <b>Maarten Honing</b> , DSM Resolve, “Understanding Materials – Biology interactions; the use of Surface Plasmon Resonance to study protein absorption”.	12:05-12:40	<b>Materiomics BV</b> , PhD student, Ir. <b>Nick Beijer</b>	
12:25-12:45	Dr. <b>Wilfried Weigel</b> , Scienion AG, “Biofunctionalization as Key Step in Biosensor Applications – From R&D to Highthroughput Manufacturing”	Prof. Dr. Ir. <b>Pascal Jonkheijm</b> , MESA+ University of Twente, “Supported lipid bilayers as stem cell microenvironments”	12:40-13:15	<b>Biogelx ltd</b> , Chief Executive Officer, Dr. <b>David Lightbody</b>	
12:45-13:05	Dr. <b>Adrian Prinz</b> , Stratec, “Translating customers’ ideas into microstructured smart polymer parts”	Prof. <b>Paolo A. Netti</b> , IIT@CRIB, “Instructive materials to control cells fate and morphogenesis”	13:15-13:25	Walking to the Universiteitshal	
13:05-13:25	Lunch /booth demos				
13:25-14:20	Lunch /booth demos/ Photo participants				

Afternoon June 27<sup>th</sup>

Start parallel workshop session			
	<p><i>Human diagnostic devices (Promotiezaal)</i></p> <p>Moderators: <b>Menno Prins</b></p>	<p><i>Regenerative medicine at the nano scale, cell-material and interaction for organ-on-chip devices. (Jubileumzaal)</i></p> <p>Moderators: <b>Albert van den Berg</b></p>	<p><i>Entrepreneurship Cases (Tiensestraat 41, Room 01.02)</i> By spinoff Professors and or founder/Entrepreneur Moderator: <b>Martin Bennink</b></p>
14:20-14:40	<p>Prof. Dr. Ir. <b>Menno Prins</b>, TU/e, "Biosensing based on particles and single-molecule methods"</p>	<p>Prof. Dr. Ir. <b>Albert van den Berg</b>, MIRA-MESA+, "Labs, Cells and Organs on a Chip"</p>	<p>14:20-14:30 <i>Walking to tiensestraat</i></p>
14:40-15:00	<p>Dr. Ir. <b>Ernst Lindhout</b>, Future Diagnostics BV, "Human Diagnostic Devices; an Overview from Micro to Nano IVD"</p>	<p>Prof. <b>Martin Wiklund</b>, KTH Royal Institute of Technology, "Acoustofluidics application in 3D cell culture, micro-tissue and micro-tumor engineering"</p>	<p>14:30-15:05 <b>Saxion NL</b>, Professor, Dr. Ir <b>Martin Bennink</b></p>
15:00-15:20	<p>MSc <b>Wilhelm Meyer</b>, Microdrop Technologies, "High Accurate Microarray Spotting for Lab-on-Chip Applications"</p>	<p>MSc <b>Peter Childs</b>, University of the west of Scotland, "Nanokicking: A precision engineering approach to bone regenerative medicine"</p>	<p>15:05-15:40 <b>Novosanis</b>, Chief Executive Officer, Dr. Vanessa Vankerckhoven</p>
15:20-15:40	<p>MSc <b>Rianne de Vries</b>, University Amsterdam</p>	<p>Dr. <b>Maria Iannone</b>, CRIB Naples, "Putting cell in the right context"</p>	
15:40-16:15	Break / booth demos		15:40-16:15 break
16:15-16:35	<p>Dr. <b>Nils Paust</b>, IMTEK, "Centrifugal microfluidics for miniaturization, integration and parallelization of biochemical work flows."</p>	<p>Dr. <b>Arnold Storm</b>, TNO, "Manufacturing of inert, villi-shaped scaffolds for gut-on-a-chip"</p>	<p>16:15-16:55 <b>Innophysics BV</b>, Chief Technology Officer, Dr. Ir. <b>Alquin Stevens</b></p>
16:35-16:55	<p>Dr. <b>Max Sonnleitner</b>, Genspeed Biotech GmbH, "GENSPEED Next Generation - how roll-to-roll imprinting enables foil based POC Testing with increased sensitivity and reduced costs"</p>	<p>Dr. <b>Vincent J. Nebot</b>, Polypeptide Therapeutic Solutions, "Polypeptide-based materials as versatile tools for biomedical applications"</p>	
16:55-17:15	<p>Dr. <b>Xize Niu</b>, University Southampton, "Wearable droplet microfluidics for real-time continuous monitoring of tissue chemistry"</p>	<p>Dr. <b>Alexander Quick</b>, Nanoscribe GmbH, "3D Printing in Life Sciences"</p>	<p>16:55-17:35 <b>Mimetas – The Organ on a Chip Company</b>, Business Developer, <b>Wouter Strijker</b></p>
17:15-17:35	<p>Ir. <b>Steven Staal</b>, Medimate, "Improving decentralized health care by introducing the new and unique electrophoresis self-test platform"</p>	<p>Dr. <b>Monica Brivio</b>, Micronit, "Latest advancements in microfluidic flow control and microfabrication technologies for Point-of-Care, Organ-on-Chip and MEMS applications"</p>	
17:35-17:55	<p>Dr. <b>Sapun Parekh</b>, MPIP Mainz, "Molecular imaging including applications of nonlinear microscopy in biology and molecular biophysics"</p>	<p>Dr. <b>David Lightbody</b>, Biogelx Ltd., "Biogelx: Designer Gels for Cell Culture"</p>	<p>17:35-17:55 <i>Walking to the Universiteitshal</i></p>
19:00-23:00	Meet the startups & match dinner at the Faculty club.		

Morning June 28<sup>th</sup>

8:00	Doors open/coffee			
8:30-8:40	Opening			
8:40-9:10	1 <sup>st</sup> keynote Speaker, Prof <b>Tony Cass</b> , Imperial College London, "Aptamers in Nanobioanalysis-from Nanoparticles to Nanopores"			
9:10-9:20	Start up; Prof. Dr. <b>Wim Vanhaverbeke</b> , UHasselt, ESADE Business School, National University of Singapore			
9:20-9:30	Start up; Dr. <b>Vanessa Vankerckhoven</b> , Novosanis			
9:30-9:40	Start up; Ir. <b>Koen Dewaele</b> , ADx NeuroSciences, "Use of ADx monoclonale antibodies on nano based –platforms"			
9:40-10:10	Break			
<b>Start parallel workshop session</b>				
	<i>Molecular Surface Functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging (Promotiezaal)</i>  Moderators: <b>Nathalie de Greyter</b>	<i>Drug release systems &amp; Nanomedicine, solid &amp; fluidic micro/NanoParticles. Lead compound discovery and novel screening methods (Jubileumzaal)</i>  Moderators: <b>Twan Lammers</b>	<i>Entrepreneurship Cases (Tiensestraat 41, Room 01.02)</i> By spinoff Professors and or founder/Entrepreneur  Moderator: <b>Wim Vanhaverbeke</b>	
10:10-10:30	Prof. Dr. Ir. <b>Nathalie de Geyter</b> , Ghent University, "Pre- and post-production plasma treatments of PCL electrospun nanofibers: effects on cellular interactions"	Prof. Dr. <b>Twan Lammers</b> , RWTH Aachen University Clinic, "Clinical translation of targeted nanomedicine"	10:10-10:20	Walking to tiensestraat
				<b>Polypeptide Therapeutic</b> , R&D Deputy Director Solutions, Dr. <b>Vincent J. Nebot</b>
10:30-10:50	Dr. Ir. <b>Jacob Baggerman</b> , Aquamarijn Micro Filtration BV, "Smart Sieves for Life Sciences"	Dr. <b>Eric Gottwald</b> , 300 Microns GmbH, "A New 3D-Cell Culture Platform: Microcavity Arrays – STATARRAYS®, DYNARRAYS®"	10:20-10:55	
10:50-11:10	Prof. <b>Patrick Tabeling</b> , ESPCI ParisTech, "Hydrogel actuators and microfluidic measurement of the Hamaker constant."	Dr. <b>Colin Campbell</b> , University of Edinburgh, "Life and free-energy in 3D tissue models – a tool for drug discovery"		
11:10-11:30	MSc <b>Niek Rijnveld</b> , Optics 11, "Measuring micro-mechanical properties of tissues and single cells with Piuma Nanoindenter technology"	Dr <b>Peter Miethe</b> , FZMB GmbH, "Polysaccharide based nanoparticles"	10:55-11:30	<b>ADx NeuroSciences NV</b> , Chief Executive Officer, <b>Koen Dewaele</b>
11:30-12:05	Break/booth demos		11:30-11:55	Break
11:05-12:25	Dr. <b>Stephan block</b> , Freie Universität Berlin, "Two dimensional flow nanometry for simultaneous determination of size and molecular content of biological nanoparticles"	Dr. <b>Mehmet Deniz Akyuz</b> , Alveole, "Spatial modulation of light: how to dynamically control cell/material interaction"	11:55-12:30	<b>300 Microns GmbH</b> , Chief Executive Officer, Dr. <b>Eric Gottwald</b>
12:25-12:45	Dr. <b>Wout Knoben</b> , Surfifix, "Surface modification for point-of-care devices"	Dr. <b>Michael Gabi</b> , Cytosurge AG/FluidFM Technology, "FluidFM Technology"		
12:45-13:05	Dr. <b>Andrea Valsesia</b> , European Commission Directorate General Joint Research Centre Directorate F – Health, "Surface-based detection platforms for the characterization of Engineered Nanomaterials"	Dr. <b>Jens Baumgartner</b> , Max Planck Institute, "Learning Tricks from Nature: Magnetic Nanoparticles and Magnetotactic Bacteria"	12:30-13:05	<b>Optics 11</b> , Chief Executive officer, MSc <b>Niek Rijnveld</b>
13:05-13:25	Ir. <b>Lionel Matthys</b> , Fluigent Deutschland GmbH, "From microreactors production to cell culture: microfluidics for researchers"	Dr. <b>Nadine Wilhelm</b> , Fraunhofer IBMT, "Biodegradable nanoparticles for targeted drug delivery"	13:05-13:40	<b>Pertinet</b> , Dr. <b>Maria Iannone</b>
13:35-13:45	Prof. Dr. <b>Bo Su</b> , University of Bristol, "Biomimetic antimicrobial surfaces?"		13:40-13:45	Walking to Universiteitshal
13:45-14:40	Lunch / booth demos / Meeting International Scientific Committee (ISC)			

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Start parallel workshop session		
	<p><i>Molecular Surface Functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging</i>  <b>(Promotiezaal)</b>            Moderators: <b>Wim de Malsche</b></p>	<p><i>Booth demo's/snapshot presentations (Jubileumzaal)</i>            Meet at the information desk</p>
14:40-15:00	<p>Prof. Dr. Ir. <b>Wim de Malsche</b>, <i>Vrije Universiteit Brussel, "Pillar array columns optimized for high peak capacities in reversed phase chromatography mode"</i></p>	<p>Innophysics            NanoKick            Microdrop Technologies            Surfix            Alveole            Salm en Kipp NL            LA Biosystems            SuSoS AG            LOT-QuantumDesign GmbH            University Hasselt            Fluigent</p>
15:00-15:20	<p>Dr. <b>Burak Eral</b>, <i>TU Delft, "E-Barcodes; Multifunctional biodegradable microparticles for labelling food and pharmaceutical products"</i></p>	
15:20-15:40	<p>Prof. Dr. <b>Bart Jan Ravoo</b>, <i>Westfälische Wilhelms-Universität Münster, "Functional surfaces and particles by microcontact printing and click chemistry"</i></p>	
15:40-16:00	<p>Prof. <b>Han Gardeniers</b>, <i>MESA+ / University of Twente, "Microfluidics for forensics"</i></p>	
16:00-16:35	Break / booth demos	
16:35-16:55	<p>Dr. <b>Bart Metselaar</b>, <i>Enceladus BV, "Clinical development of intravenous liposomal prednisolone in inflammatory disease indications"</i></p>	<p>Innophysics            NanoKick            Microdrop Technologies            Surfix            Alveole            Salm en Kipp NL            LA Biosystems            SuSoS AG            LOT-QuantumDesign GmbH            University Hasselt            Fluigent</p>
16:55-17:15	<p>Dr. <b>Murali Ghatkesar</b>, <i>TU Delft, "Hollow AFM probes for micro/nano scale fluid manipulation and beyond"</i></p>	
17:15-17:35	<p>Dr. <b>Gerry Nicolaes</b>, <i>Cardiovascular Research Institute Maastricht (CARIM) "the power of MDS and in silico drug design (leads)"</i></p>	
17:40	Closure in <b>Promotiezaal</b>	