

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

This program is subject to change and may or may not reflect the final program.

## 27 September 2016:

<b>7:00-8:00</b>	Gallery open for table top/booth installations		
<b>8:00-8:30</b>	Doors open/coffee		
<b>8:30-8:40</b>	<b>Opening</b> by Hugo de Haan and (chair) Pascal Jonkheijm		
<b>8:40-9:10</b>	1 <sup>st</sup> keynote speaker; Prof. Dr. Ir. <b>Albert van den Berg</b> , UT/MIRA; “Diagnostics and point-of-care trends and future, incl. organ on chip as pharmaceutical screening tool and cell model studies”		
<b>9:10-9:40</b>	Hugo de Haan, introduction of the Pitches from the best PhD students presentation MESA+ day		
<b>9:40-10:10</b>	Coffee / tea at the booth area		
<b>Start parallel workshop sessions</b>			
	<b>Erlenmeyer</b> <i>Human diagnostic devices.</i>  Moderator: Prof. Dr. Ir. <b>Menno Prins</b>	<b>Reactor</b> <i>Drug release systems &amp; Nanomedicine</i> <i>(with focus on cancer, immunology, CNS related diseases)</i>  Moderator:	<b>NanoLab Tour &amp; Booth demo's<sup>1</sup></b> <i>(max 15 persons per group)</i>
<b>10:10-10:30</b>	Prof. Dr. Ir. <b>Menno Prins</b> , TU/e; <i>Biosensing based on particles and single-molecule methods.</i>	PhD <b>Vicent Nebot</b> , PTS/Polypeptide Therapeutic Solutions; <i>“Polypeptide-based Drug Delivery Systems: Design, Industrial Feasibility, and Therapeutic Applications”</i>	<b>Group 1</b>
<b>10:30-10:50</b>	Dr. <b>Jules Keyzer</b> , Diagnostiek voor U; <i>“Human diagnostic trends, service, quality and costs”</i>	PhD MSc <b>Aylvin Dias</b> , DSM; <i>“Tunable amino acid based biodegradable polyesteramides for drug delivery”</i>	
<b>10:50-11:10</b>	Dr. <b>Andre Immink</b> , Philips Handheld Diagnostics; <i>“Troponin point of care test”</i>	Dr. <b>Regine Lutge</b> , TU/e; <i>“From academic research on microneedle fabrication to start-up: MyLife Technologies BV”</i>	
<b>11:10-11:30</b>	Prof. Dr. <b>Jonas Tegenfeldt</b> , Lund Univ.; <i>“Nano and microfluidics for diagnostics”</i>	PhD MSc <b>Bart van Limpt</b> , Delft IMP; <i>“Scalable nanostructuring for controlled release of pharma- and nutraceuticals”</i>	
<b>11:30-11:50</b>	Dr. <b>Nuno Reis</b> (or colleague), Biosurfit; <i>“spinit – minilab for rapid blood testing”</i>	Prof. Dr. Ir. <b>Joost Lotters</b> , Bronkhorst High-Tech BV / UT; <i>“MicroCoriolis flow and density sensor for flow and composition measurement in drug delivery systems”</i>	
<b>11:50-12:05</b>	coffee break		
<b>12:05-12:25</b>	Prof. Dr. <b>Han Gardeniers</b> , UT/MESA+; <i>“Microfluidics with proteins”</i>	PhD <b>Jean-Sebastián Thomann</b> , Luxembourg Institute of Science and Technology (LIST); <i>“Engineered Nanoscale Vectors for Drug-Delivery Applications”</i>	<b>Group 2</b>
<b>12:25-12:45</b>	Dr. <b>Filip Delpoort</b> , Fox Diagnostics; <i>“A Fast Assay for Infliximab Detection in serum using Fiber-Optic Surface Plasmon Resonance Sensor”</i>		
<b>12:45-13:05</b>	MD HD <b>Dan Hogdall</b> , POC Solutions		
<b>13:05-13:25</b>	<b>Discussion on new applications and initiatives</b>	<b>Discussion on new applications and initiatives</b>	

<sup>1</sup> The NanoLab tour is parallel to the presentations, if you are interested please tick the box during the ticket ordering or send an email to [joop.schep@innophysics.nl](mailto:joop.schep@innophysics.nl). Depending on the amount of interest you will be able to specify in which group you would like to be (by email).

<b>13:25-14:20</b>	Lunch at the Grand café	
	<b>Erlenmeyer</b> <i>Human diagnostic devices.</i>  Moderators: Prof. Dr. Ir. <b>Menno Prins</b>	<b>Reactor</b> <i>Cell-material interaction for organ-on-chip devices &amp; regenerative medicine at the nano scale.</i>  Moderators: Prof. Dr. <b>Carlijn Bouten</b> and Dr. <b>Roman Truckenmüller</b>
<b>14:20-14:40</b>	Dr. <b>Elena Perez</b> , MeBioS/Leuven; "Digital Microfluidics For Single-Molecule Detection And Single Cell-Analysis"	Dr. <b>Maurizio Ventre</b> , IIT/Univ. Naples; "Mastering Material-Cytoskeleton crosstalk to Engineering biological tissues in vitro"
<b>14:40-15:00</b>	Ir. <b>Maurits van der Heiden</b> , TNO; "Nano opto-mechanical biosensing"	Dr. <b>Mathis Riehle</b> , Univ. Glasgow; "Bioengineering a 3-D nerve conduit to enhance nerve regeneration"
<b>15:00-15:20</b>	PhD <b>Douwe Geuzebroek</b> , Lionix International; "Photonics Integrated circuits based modules enabling life science applications"	Dr. <b>Meike van der Zande</b> , MSc BSc <b>Milou Santbergen</b> and Dr. Ir. <b>Hans Bouwmeester</b> , WUR, "Human gut-on-a-chip as a model for bioavailability and biotransformation studies"
<b>15:20-15:40</b>	PhD <b>Robert Burger</b> , Blusense-Diagnostics; "Next generation point-of-care diagnostics for infectious diseases"	Dr. <b>Norman Munroe</b> , Florida International Univ.; "Tailoring the corrosion and biological response of novel biomaterials"
<b>15:40-15:55</b>	Coffee break	
<b>15:55-16:15</b>	PhD <b>Aliki Tsopela</b> , Micronit Microfluidics BV; "Resealable organ-on-a-chip platforms: innovative devices for in vitro cell cultures"	Dr. <b>Roman Truckenmüller</b> , MERLN Maastricht; "Engineering 3D cell and tissue interfaces in advanced microwell arrays"
<b>16:15-16:35</b>	Dr. <b>Julien Reboud</b> , Univ. of Glasgow; "Phononics: an acoustic microfluidic tool box for integrated, low-cost, low-power, point-of-care diagnostic of infectious diseases"	Dr. <b>Céline A. Mandon</b> , Univ. Lyon; "3D printing of hydrogels incorporating biomolecules: from cm towards nm"
<b>16:35-16:55</b>	Ir. <b>Steven Staal</b> , Medimate / CE-Mate BV; "New Possibilities for Point of Care / Point of Need Testing with the Medimate Electrophoresis Self-Test Platform"	Prof. Dr. <b>Carlijn Bouten</b> , TU/e; "The cellular niche and its relevance in cardiovascular tissue engineering"
<b>16:55-17:15</b>	Dr. <b>Daniel Filippini</b> , Linköping Univ; "3D printed fast-prototyping of lab-on-a-chip devices and disposable optics"	Dr. Ir. <b>Paul Vulto</b> , CEO Mimetas - The Organ on a Chip Company, NL
<b>17:15-17:35</b>	<b>Discussion on new applications and initiatives</b>	<b>Discussion on new applications and initiatives</b>
<b>17:40-18:10</b>	<b>Plenary presentations</b> of workshop findings by moderators (new applications, new H2020 cooperation's) , plenary discussion	
<b>19:00-23:00</b>	dinner & music event	

## 28 September 2016:

<b>8:00-8:30</b>	Doors open	
<b>8:30-8:40</b>	Opening second day	
<b>8:40-9:10</b>	1 <sup>st</sup> keynote speaker Dr. <b>Govind V. Kaigala</b> , IBM Research Laboratory; "Zurich Microfluidic probe technology for tissue and cell micro processing"	
<b>9:10-9:40</b>	2 <sup>nd</sup> keynote speaker MSc <b>Ben Lich</b> , FEICo; "Recent Electron Microscopy developments : from 2D to 3D, for cellular architecture to near atomic macromolecular structure analysis"	
<b>9:40-10:10</b>	coffee/tea at the booth area	
<b>Start parallel workshop sessions</b>		
	<b>Erlenmeyer</b> <i>Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging</i>  Moderator: Prof. Dr. <b>Han Zuilhof</b> and Dr. Ir. <b>Pascal Jonkheijm</b>	<b>Reactor</b> <i>Lead compound discovery and novel screening methods, use of solid &amp; fluidic micro / NanoParticles.</i>  Moderator: Prof. Dr. <b>Sabeth Verpoorte</b> and Dr. Ir. <b>Maarten Jongmsma</b>
<b>10:10-10:30</b>	Prof. Dr. <b>Han Zuilhof</b> , WUR; "Romantic Surfaces: Approaches towards highly biospecific interfaces"	Dr. <b>Valery Taly</b> , Univ. Paris Descartes; "From droplet based microfluidics to digital PCR: the development of a new tool for cancer patient follow up"
<b>10:30-10:50</b>	Prof. <b>Graham J. Leggett</b> , Univ. Sheffield; "Strong coupling between localised surface plasmon resonances and light-harvesting membrane proteins"	Prof. Dr. <b>Sabeth Verpoorte</b> , RUG; "Monitoring Cellular Micromotion in Endothelial Cell Layers using a Microfluidic/Photonic Approach"
<b>10:50-11:10</b>	Dr. <b>Wilfried Weigel</b> , Scienion / HU Berlin; "Spot Based Analytics - Surface Modification and Printing Technologies"	Dr. Ir. <b>Maarten Jongmsma</b> , WUR; "Lead compound discovery by coupling LCMS to microfluidic cell assays"
<b>11:10-11:30</b>	Prof. Dr. <b>Manuel Salmeron-Sanchez</b> , Glasgow Univ.; "Polymers for nanoscale assembly of proteins at interfaces"	PhD <b>Richard B.M. Schasfoort</b> , IBIS Technologies BV; "Functional epitope discovery for potential therapeutic antibody-based lead candidates using high throughput label-free screening technologies"
<b>11:30-11:45</b>	coffee break	
<b>11:45-12:05</b>	Dr. <b>Joachim Loos</b> , DSM Resolve; <i>Title will follow</i>	Dr. <b>David Fernandez Rivas</b> , MESA+/BuBclean; "More than cleaning with ultrasound"
<b>12:05-12:25</b>	Dr. <b>Peter Miethe</b> , FZMB; "Ligand immobilization via Amino cellulose chemistry"	Ir. <b>Liang Lin</b> , TU/e; "Microplasma Process for the Synthesis of Iron Oxide and Titanium Nitride Nanoparticle and Thoughts about the Process for Nano-Bio Applications"
<b>12:25-12:45</b>	MBA <b>Stéphane Etienne</b> , Nordson Asymtek; "Variety of coating/dispensing techniques relevant for life science related cases"	Dr. Ir. <b>Pascal Colpo</b> , JRC Italy; "Characterizing protein nanoparticle interactions in combining QCM-D and SPR techniques"
<b>12:45-13:05</b>	Dr. <b>Jasper van Weerd</b> , LipoCoat; "anti-fouling coating"	Ir. <b>Aaïke van Vugt</b> , VSParticle BV; "Automated production of inorganic nanoparticles"
<b>13:05-13:25</b>	Dr. Ir. <b>Alquin Stevens</b> , InnoPhysics BV; "Digital surface modifications for microfluidics and biosensor applications"	MSc <b>Arjan Fraters</b> , UT/Océ; "Bubbles in piezo-acoustic inkjet printers"
<b>13:25-13:45</b>	<b>Discussion on new applications and initiatives</b>	<b>Discussion on new applications and initiatives</b>
<b>13:45-14:40</b>	Lunch at the Grand café / Meeting of the International scientific committee	

<b>Start parallel workshop sessions</b>		
	<b>Erlenmeyer</b>	<b>NanoLab Tour &amp; Booth demo's</b> (max 15 persons per group)

	<i>Surface functionalization, antimicrobial/antifouling coatings and analytics, detection and imaging</i>	
	Moderator: Prof. Dr. <b>Han Zuilhof</b> and Prof. Dr. <b>Gijs Wuite</b>	
<b>14.40-15.00</b>	Prof. Dr. <b>Gijs Wuite</b> , VU Amsterdam; Title will follow	<b>Group 3</b>
<b>15.00-15.20</b>	Dr. Ir. <b>Dorothee Wasserberg</b> , UT; <i>"Inkjet printing of cell staining reagents for on-chip sample preparation"</i>	
<b>15.20-15.40</b>	Dr. Ir. <b>Martin L. Bennink</b> , Saxion; "Developing antibacterial nanocoatings for textiles in health care"	
<b>15.40-16.00</b>	PhD MSc <b>Wout Knoben</b> , Surfix; "Micropatterned surfaces by one-step local surface modification"	
<b>16:00-16:15</b>	coffee break	
<b>16.15-16.35</b>	Dr. <b>Sivashankar Krishnamoorthy</b> , Luxembourg Institute of Science and Technology (LIST); <i>"Delivering Ultra-High Resolution Nanoarrays for Nano-Enabled Bio Devices and Interfaces"</i>	
<b>16.35-16.55</b>	Prof. Dr. <b>Wolfgang Parak</b> , Univ. Marburg; <i>"Interaction of colloids with cells"</i>	
<b>16.55-17.15</b>	<b>Discussion on new applications and initiatives</b>	
<b>17:15-17:45</b>	<b>Plenary presentations</b> of workshop findings by moderators (new applications, new H2020 cooperation's), plenary discussion	
<b>17:45</b>	Closure / end of workshop	

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