

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

Programme Morning 8 May 2018

7.00	Hal open for table booth installations		
8.00	Doors open/coffee		
8.30	Opening by Philip Renaud , EPFL, Chair		
8.40-9.10	1 st keynote: Roland Zengerle , Hahn-Schickard-Director Freiburg & Villingen-Schwenningen “Molecular diagnostics at the Point-of-Care by centrifugal microfluidics”		
9.10-9.40	Hugo de Haan , introduction & presentation of 3 selected Alp region recent Start-ups		
	1. one open		
	2. Christian Mathis , Dr. sc. ETH , SuSoS AG: “.PACrAm - a Novel Sensing Platform for Next Generation Sequencing		
	3. Iwan Märki , Abionic SA, Switzerland, “Nanotechnology for point-of-care diagnostics”		
9.40-10.10	Coffee / tea at booth area		
	Start parallel workshop sessions		
	Salle Polyvalente	Demo salle (hall)	la salle CE1 104
	Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging.	Cell-material interaction for organ-on-chip devices & regenerative medicine @ the nano scale	Human diagnostic devices
	Moderator:	Moderator:	Moderator:
10.10-10.30	Katja Fricke , INP Greifswald, Head Research Programme Bioactive Surfaces “On the tailoring of cell-surface interactions by plasma-based surface engineering”	Stefan Giselbrecht , MERLN . “Membrane-based microfluidic systems for advanced 3D cell culture models”	Hatice Altug , EPFL. Her lab works on novel nanophotonic based biosensors for LoC diagnostics, cell analysis and biology applications. “Lab-on-a-Chip Nanophotonic Biosensors for Biology and Diagnostics”
10.30-10.40	Dr. Jörg Funk , Voxalytic GmbH “Micro-solenoids – allrounder component for sensing, acting and transmitting on micro and nano-level”		
10.40-11.00	Alessandro Patelli , Padova University. Title “Surface functionalization, nano roughness and drug delivery by atmospheric plasma jet on 3D printed scaffolds” (with Nadirtech)	Maurits van der Heiden , TNO, bio-NOMI	
11.00-11.20	Alquin Stevens , InnoPhysics, NL “Area Selective Activation and Deposition options using Microplasma “	Héctor Martínez , Cellink, / cell/material	Wilfried Wiegel , Scienion, Ge
11:20-12:00	Coffee Break		
12.00-12.20	Peter Miethe , Forschungszentrum für Medizintechnik und Biotechnologie FZMB GmbH , and Elisabeth Müller from Laboklin “Veterinary diagnostics- a playground for innovative lab on chip devices”	Pascal Jonkheijm , UT/MESA+ “Supramolecular materials and interfaces for biological and biomedical applications”	Hywel Morgan , Univ of Southampton, UK “ From SmartPhones to Diagnostics”
12.20 -12.40	Paul Jacobs , PharmaFluidics, “Micro Pillar Array Columns (µPAC™): the heart of a versatile and robust platform for limited cell count proteomics”	Serena Danti , OTOLab @ Cisanello Hospital, Pisa, The BioRobotics Institute, Ponrtede , it .	Aliki Tsopela , Micronit “Microtechnologies enabling point-of-care testing”
12.40-13.00	Andrea Valsesia , Advanced Analytical Methods , European Commission, Directorate General Joint Research Centre	Wolfgang Wagermaier , Max Planck Institute of Colloids and Interfaces , Department of Biomaterials, Research Campus Golm , Potsdam, Germany. “Osteocyte network architecture and bone material properties in healthy and	Dr Stavros Stavrakis , ETH Zurich , group Andrew J. deMello OPTOFLUIDIC PLATFORMS FOR HIGH-THROUGHPUT AND HIGH PRECISION MEASUREMENTS IN FLOW CYTOMETRIC DETECTION (theme; surface functionalization)

		healing bone”	
13.00-13.10	Maximilien Guerin , Fluigent S.A.	Samuele Tosatti , SuSos AG “Stemm cells React on Form and Surface – Biological Principles demand new platforms for regenerative medicine “	firm
13.10-13.30	Thomas Pfohl , Institute of Physics, University of Freiburg “Straightforward microfluidic tools for biology and biophysics”	Arnaud Nicolas , MIMETAS	Scientist
13.30-14.00	Lunch		
14.00-14.20	Photo shoot participants		

Programme Afternoon 8 May 2018

Start parallel workshop session & Possibility to join CMi day afternoon program in RLC				
	Salle Polyvalente Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging. Moderator:	Demo salle (hall) Cell-material interaction for organ-on-chip devices & regenerative medicine @ the nano scale Moderator:	la salle CE1 104 (reserved until 15.00 hrs !) Moderator:	
14.20-14.40		Maurizio Ventre , University of Naples Federico II / Centre for Advanced Biomaterials for Health Care, IIT@CRIB, Istituto Italiano di Tecnologia, and Interdisciplinary Research Centre on Biomaterials	John Brennan , Biointerfaces Institute McMaster University "A Paper Sensor Printed with Multifunctional Bio/Nano Materials"	
14.40-15.00	Anke Schuetz-Trilling , Surfex NI, "Local surface modification for the life science market" A Paper Sensor Printed with Multifunctional Bio/Nano Materials	Giovanna Brusatin , Università di Padova "2D-3D cell culture systems for biomedical studies"	Etienne Fradet , Stilla Technologies" The Naica system and its applications"	
15.00-15.20	Morteza Aramesh , Laboratory of Biosensors and Bioelectronics, Institute for Biomedical Engineering, ETH Zurich "Carbon coating of nanomaterials for biosensing"	Norman D.H. Munroe , Florida International University "Surface Treated Biosorbable Materials for Sensors and Cardiovascular Applications"	<p style="text-align: center;">Walk to Rolex Center (10 min)</p> <p style="text-align: center;">CMi day</p> <p>1° the doors will be closed during the presentations</p> <p>2° the actual timing will certainly deviate from the program</p>	
15.20-15.40	Walk to RLC for CMi Poster session & Cocktail	Walk to RLC for CMi Poster session & cocktail		15:15-15:45
15.40-16.00			15:45-16:00	Philippe Renaud , (http://lmis4.epfl.ch), From the lab to the fab: how simple technologies translate into innovative products
16.00-16.15			16:00-16:15	Jamie Paik , (https://rrl.epfl.ch), Soft Origami Robots
16.15-16.20			16:15-16:20	Jochen Zimmer , (https://www.nanoscribe.de), Short technical presentation
16.20-17.00	CMi day Poster Session & Cocktail in Rolex Learning Center (RLC)			
19.00-23.00	Dinner & musical event			

Programme Morning 9 May 2018

	Salle Polyvalente Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging. Moderator:	Demo salle (hall) Cell-material interaction for organ-on-chip devices & regenerative medicine @ the nano scale Moderator:	Salle 3 (08.00-10.000) ONLY WHEN ALL OTHER PRESENTATION SLOTS ARE FILLED IN WE NEED THIS ROOM Moderator;
08.20- 08.40	Dmitri Y. Petrovykh , International Iberian Nanotechnology Laboratory (INL), "Practical design and characterization of biofunctionalized surfaces	Fredrik Höök , Chalmers Univ, "Micro- and Nanofluidics in Biological Nanoparticle Analytics." (application theme; Drug delivery systems & Nanomedicine)	Scientist
08.40-09.00	Elmar Hartmann , JPK Instruments AG „Modern Techniques of Atomic Force Microscopy (AFM) in Life Sciences”	Firm	Firm
09.00-09.20	Marileen Dogterom , TU Delft / Department of BioNano science, Kavli Institute of Nanoscience, "Building minimal mitotic spindles in artificial confinement”	Hugo Bissig , Federal Institute of Metrology METAS "High accuracy testing of drug delivery devices”	Scientist
09.20-09.40	Murali Ghatkesar , TU Delft, <i>hollow AFM tip cantilevers ?</i>	Joost Lötters , Bronkhorst High-Tech B.V. "MicroCoriolis flow and density sensor for flow and composition measurement in drug delivery systems. “	Firm
09.40-10.00	Jeff wood , University Twente (<i>replacing Rob Lammertink</i>). "Transport Phenomena in Structured Charge-Selective Interface Systems “	Marie-Agnès Doucey ' Ludwig Institute for Cancer Research, "Memristor Nanowire Sensors for High Sensitivity Detection of markers in Breast Cancer Patient Tumor Tissues”	Scientist
10.00-10.40	Coffee Break		
10.40-11.10	2 nd keynote Emmanuel Delamarche, IBM		
11.10-11.30	startups/ firms (2/ 10 min ea ?)		
11.30-12.00	Coffee Break		
	Salle Polyvalente Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging. Moderator:	Demo salle (hall) Lead compound discovery and novel screening methods (such as organoids/organs on a chip) use of solid & fluidic micro/NanoParticles Moderator:	
12.00-12.20	Matthias Lutolf , Institute of Bioengineering, EPFL (section; Tissue Engineering) co-founder spinoff SUN Bioscience	Wim De Malsche , VUB, "Production of monodisperse particles at an industrial scale”	
12.20-12.40	Firm	Uwe Marx , TissUse GmbH, spin-off TU Berlin (section "novel screening methods") . Nanoscale aspects of a human multi-organ-chip platform for safety and efficacy testing	
12.40-13.00	Björn Önfelt , Microbiology, Tumor and Cell Biology, Karolinska Institutet, Solna” Devices and analysis to assess anti-tumour responses of natural killer cells at the single cell level	Tom Constandse , TNO NL, Intrapreneurship at TNO – Scaling-up single-molecule science to high-throughput technologyTNO	
13.00-13.20	Firm	Firm	
13.20-13.40	Scientist/open	Albert van den Berg , MESA+/UT“Nanotech for Health”	
13.45-14.40	Lunch (13.45 meeting International Scientific Committee / ISC)		

Programme Afternoon 9 May 2018 (Cont'd)

14.40	Workshop session 2	
	Salle Polyvalente Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging. Moderator:	Demo salle Human diagnostic devices Moderator:
14.40-15.00	Monika Ritsch-Marte , Medical University of Innsbruck, "Optical and acoustic traps for cell clusters"	Jonathan M. Cooper , University of Glasgow
15.00-15.20	Iago Pereiro , IBM Zurich Laboratory (Delamarche group) - Zurich High-efficiency microscale biopatterning on surfaces using hydrodynamic flow confinements	Firm
15.20-15.40	Maarten Honing , M4I Institute Maastricht MultiModal Molecular Imaging. Faculty Health, Medicine & Life Sciences, Maastricht University "Surfaces/material biology interactions and lead compounds discovery"	Tony Cass , Imperial College, UK "Microneedle Sensor Arrays for Minimally Invasive Continuous <i>in vivo</i> Monitoring"
15.40-16.00	Firm	Firm
16.00-16.15	Coffee break	
16.15-16.35	Sami Rtimi , EPFL, "Recent developments in uniform films on 2D/3D surfaces leading to quasi-instantaneous bacterial inactivation kinetics"	Samantha Paoletti , CSEM. Recent advances in non-invasive diagnostics
16.35-16.55	Firm	Firm
16.55-17.15	Scientist/ or stop earlier	Scientist/ or stop earlier
17.15-17.40	Plenary @ Salle Polyvalente	
17.40	Closure	