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

Programme Morning 8 May 2018

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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"		
9.10-9.30		Hugo de Haan , introduction & presentation of 3 selected Alp region recent Start-ups		
	1. Christian Mathis, Dr. sc. ETH, SuSoS AG: ".PAcrAm - a Novel Sensing Platform for Next GenerationSequencing			
	2. Iwan Märki , Abionic SA, Switserland, "N	anotechnology for point-of-care diagnostics"		
9.30-10.00	Coffee / tea at booth area			
	Start	parallel workshop sessions		
	Salle Polyvalente	Demo salle (hall)	la salle CE1 104	
	Surface functionalization,	Cell-material interaction for organ-on-	Human diagnostic devices	
	antimicrobial/antifouling coatings and	chip devices & regenerative medicine @		
	analytics, detection, imaging.	the nano scale		
	Madanatan Thamas Dfalil	Madantan Grafen Challenakt /Bassal	No depart of Hatter Oliver	
	Moderator: Thomas Pfohl	Moderator: Stefan Giselbrecht /Pascal Jonkheim?	Moderator: Hatice Altug	
10.00-10.20	(back-up Peter Miethe)	Stefan Giselbrecht, MERLN . "Membrane-	Hatica Altura EDEL "Lab as a Chia	
10.00-10.20	Katja Fricke , INP Greifswald, Head Research Programme Bioactive Surfaces	based microfluidic systems for advanced	Hatice Altug, EPFL. "Lab-on-a-Chip Nanophotonic Biosensors for	
	"On the tailoring of cell-surface	3D cell culture models"	Biology and Diagnostics"	
	interactions by plasma-based surface	35 cen careare models	Biology and Biagnostics	
	engineering"			
10.20-10.40	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.	Maurits van der Heiden, TNO, bio-NOMI	Tzu-En Lin' EPFL "Imaging the	
	Title "Surface functionalization, nano	"In-vitro monitoring organ on chip	distribution of graphene oxide	
	roughness and drug delivery by	systems by their nano mechanical	nanoribbons in mice livers by	
	atmospheric plasma jet on 3D printed	behavior"	electrochemical probe"	
11.00-11.20	scaffolds" (with Nadirtech) Philip Paul, SwissLitho AG "Thermal	Newwen D.H. Munuo Elovido	Wilfwind Waigel Colonian Co	
11.00-11.20	scanning probe lithography for bio	Norman D.H. Munroe, Florida International University "Surface Treated	Wilfried Weigel, Scienion, Ge "Miniaturized Planar Multiplex	
	applications"	Biosorbable Materials for Sensors and	Analytics – From R&D to	
	SP P. 100 100 100	Cardiovascular Applications"	Highthroughput Manufacturing"	
		Cardiovascular Applications	9 1 1 1 9 p 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11:20-11:50		Coffee Break		
	Moderator: Thomas Pfohl	Moderator: Stefan Giselbrecht /Pascal	Moderator Stavros Stavrakis	
	(back-up Peter Miethe)	Jonkheim?		
	,			
11.50-12.10	Peter Miethe, Research Centre of	Pascal Jonkheijm, UT/MESA+	Hywel Morgan , Univ of	
	Medical Technology and Biotechnology	"Supramolecular materials and interfaces	Southampton, UK " From	
	mbH "Veterinary diagnostics- a	for biological and biomedical applications"	SmartPhones to Diagnostics"	
	playground for innovative lab on chip			
	devices?"			
12.10-12.30	Bo Claerebout , PharmaFluidics, "Micro	Serena Danti, OTOLab @ Cisanello	Aliki Tsopela, Micronit	
	Pillar Array Columns (μPAC™): the heart of a versatile and robust platform for	Hospital, Pisa, The BioRobotics Institute,	"Microtechnologies enabling point-	
	limited cell count proteomics"	Ponrtede , Italy "Piezoelectric nanomaterials with anti-inflammatory and	of-care testing"	
	illilited cell count proteomics	immunomodulatory properties for		
		cochlear stimulation".		
12.30-12.50	Andrea Valsesia, Advanced Analytical	Wolfgang Wagermaier , Max Planck	Dr Stavros Stavrakis , ETH Zurich ,	
	Methods , European Commission,	Institute of Colloids and Interfaces ,	group Andrew J. deMello	
	Directorate General Joint Research	Department of Biomaterials, Research	"OPTOFLUIDIC PLATFORMS FOR	
	Centre "Direct quantification of	Campus Golm , Potsdam, Germany.	HIGH-THROUGHPUT AND HIGH	
	nanoparticles hydrophobicity"	"Osteocyte network architecture and	PRECISION MEASUREMENTS IN	
		bone material properties in healthy and	FLOW CYTOMETRIC DETECTION"	
		healing bone"	(theme; surface functionalization)	
			(

12.50-13.10	Maximilien Guerin , Fluigent S.A. "Microfluidic Flow control instruments to model cell microenvironment"	Samuele Tosatti, SuSos AG "Stemm cells React on Form and Surface – Biological Principles demand new platforms for regenerative medicine "	Etienne FRADET, Stilla Technologies "The Naica system and its applications" CANCELLED
13.10-13.30	Thomas Pfohl, Institute of Physics, University of Freiburg "Straightforward microfluidic tools for biology and biophysics"	Arnaud Nicolas, MIMETAS "High- throughput platform for rapid TEER measurement of Organ-on-a-Chip endothelial and epithelial tubules"	John Brennan, Biointerfaces Institute McMaster University "A Paper Sensor Printed with Multifunctional Bio/Nano Materials"
13.30-14.00	Lunch		
14.00-14.20	Photo shoot participants		

Programme Afternoon 8 May 2018

Start parallel wo	Start parallel workshop session & Possibility to join CMi day afternoon program in RLC			
	Salle Polyvalente	Demo salle (hall)		
	Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging.	Cell-material interaction for organ-on-chip devices & regenerative medicine @ the nano scale		
	Moderator: Peter Miethe	Moderator: no need ? / 2ea only		
14.20-14.40	Morteza Aramesh, Laboratory of Biosensors and Bioelectronics, Institute for Biomedical Engineering, ETH Zurich "Carbon coating of nanomaterials for biosensing"	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 "Engineering patterned surfaces to control cell and tissue functions through the material-cytoskeleton crosstalk"		
14.40-15.00	Anke Schuetz-Trilling, Surfix 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"		
15.00-15.20	Walk to Rolex Center (10 min) for CMi Poster session & Cocktail The doors will be closed during the presentations & the actual timing will certainly deviate from the program			
15.20-15.45	Break			
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	Jamie Paik, (https://rrl.epfl.ch), Soft Origami Robots			
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)			
18.30-19.00	Walking from RLC to restaurant			
19.00-23.00	Dinner			

Programme Morning 9 May 2018

07.30-8.20	Coffee / tea at booth area		
	Salle Polyvalente		
	Surface functionalization, antimicrobial/antifouling	Demo salle (hall)	
	coatings and analytics, detection, imaging.	Cell-material interaction for organ-on-chip devices & regenerative medicine @ the nano scale	
	Moderator: Marileen Dogterom	Moderator: Fredrik Höök	
08.20- 08.40	Dmitri Y. Petrovykh, International Iberian Nanotechnology	Fredrik Höök, Chalmers Univ, "Micro- and Nanofluidics in	
	Laboratory (INL), "Practical design and characterization of biofunctionalized surfaces"	Biological Nanoparticle Analytics." (application theme; Drug delivery systems & Nanomedicine)	
08.40-09.00	Elmar Hartmann , JPK Instruments AG "Modern Techniques of Atomic Force Microscopy (AFM) in Life Sciences"	Hugo Bissig, Federal Institute of Metrology METAS "High accuracy testing of drug delivery devices"	
09.00-09.20	Marileen Dogterom, TU Delft / Department of BioNano	Joost Lötters , Bronkhorst High-Tech B.V. "MicroCoriolis flow	
	science, Kavli Institute of Nanoscience, "Building minimal mitotic spindles in artificial confinement"	and density sensor for flow and composition measurement in drug delivery systems"	
09.20-09.40	Jeff Wood, University Twente (replacing Rob Lammertink).	Marie-Agnès Doucey' Ludwig Institute for Cancer Research,	
	"Transport Phenomena in Structured Charge-Selective Interface Systems"	Memristor Nanowire Sensors for High Sensitivity Detection of markers in Breast Cancer Patient Tumor Tissues"	
09.40-10.20	Coffee Break		
10.20-10.50	2 nd keynote: Emmanuel Delamarche , IBM "Microfluidics for point-of-care diagnostics 2.0: from liquid control to security features "		
	Hugo de Haan, introduction of Science & Entrepreneurship case;		
	Murali Chatkocar, TU Dolft	Alquin Stevens, InnoPhysics, NL	
10.50-11.20	"Hollow AFM cantilever for small volume nanofluid samp	le handling" combined with "Recent developments in digital	
	μPlasmaPrint surface engineering from low volume science to high volume industrial applications"		
	Coffee Break		
11.20-12.00	Сотте	ee Break	
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Programme Afternoon 9 May 2018 (Cont'd)

14.40	Workshop session 2		
	Salle Polyvantente Surface functionalization, antimicrobial/antifouling coatings and analytics, detection, imaging.	Demo salle Human diagnostic devices	
	Moderator: Gregor Thalhammer	Moderators: Jonathan M. Cooper & Tony Cass	
14.40-15.00	Monika Ritsch-Marte, Medical University of Innsbruck, "Optical and accoustic traps for cell clusters"	Jonathan M. Cooper, University of Glasgow "Rapid, Low Cost Diagnostics for Microbial Assessment in Disease"	
15.00-15.20	lago Pereiro, IBM Zurich Laboratory (Delamarche group) - Zurich "High-efficiency microscale biopatterning on surfaces using hydrodynamic flow confinements"	Tony Cass , Imperial College, UK "Microneedle Sensor Arrays for Minimally Invasive Continuous <i>in vivo</i> Monitoring"	
15.20-15.40	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"	
15.40-16.00		Francesco Padovani, Nanobiotech Group, CRANN, Naughton Institute, Trinity College Dublin "Nanomechanical Clinical Coagulation Diagnostics and Monitoring of Therapies"	
16.00-16.15	Coffee break		
16.15	Plenary Closure @ Salle Polyvalente		