

MNBS Workshop Programme

Day 1 – Tuesday 12th Dec 2017

Projects Innovation Session – Part I

11:15 – 13:00 (incl. Q&A)

Chairs: Nikolaos Kattavenos, Richard Tuffs

- 10' **Keynote** – Setting the scene, *Andreas Lymberis, European Commission*
- 10' **A framework for multi-stakeholder/ecosystem driven innovation** - InSSIght, *Mark de Colvenaert, DSP Valley, Belgium*
- 10' **ANGELab** - Non-invasive diagnostics based on LabonaChip systems, *Jesus Ruano-Lopez, IK4 Ikerlan, Spain*
- 10' **Hyposens** - Nano-confined photonic system for detection of breast cancer spread to the lymph nodes, *Fransesc Mitjans, LEITAT Technological Center Terrassa, Spain*
- 10' **inSPECT** - Integrated Spectrometers for Spectral Tissue Sensing, *Jean Schleipen, Philips*
- 10' **BIOCDx** - A miniature Bio-photonics Companion Diagnostics platform for reliable cancer diagnosis and treatment monitoring, *Henk Leeuwis, LioniX International BV, The Netherlands + BIOFOS*
- 10' **SniffPhone** - Non-invasive Disease Diagnosis Using Wearable Technologies, *Haick Hossam, Technion - Israel Institute of Technology Haifa*
- 10' **SMARTDIAGNOS** – An EU Horizon 2020 innovation project to develop a new generation of fully integrated PCR-based infection diagnostics, *Anders Wolff, Technical University of Denmark*
- 10' **LiqBiopSens** – Detection of KRAS and BRAF mutations in colorectal cancer using blood liquid biopsy, *Juan J. Diaz Mochon, DestiNA Genomics Ltd, UK*
- 5' **MADIA** - Magnetic Diagnostic Assay for neurodegenerative diseases, *Alek Dediu, CNR-ISMN, Italy*
- 10' **InForMed** – An integrated pilot line for medical devices –SMART CATHETERS, covering the complete innovation chain from technology concept to system qualification, *Ronald Dekker, Philips, The Netherlands*

Projects Innovation Session – Part II

14:00 – 15:45 (incl. Q&A)

Chair: Petra Weiler, Nikolaos Kattavenos

- 15' **Keynote: One Health (DMC-MALVEC & DIAGORAS)** - Interfacing human diagnostics with vector control towards a holistic healthcare approach against infectious diseases, *Konstantinos Mitsakakis, Hahn-Schickard, Germany*
- 10' **MEDILIGHT** - Developments towards a miniaturized smart system for light stimulation and monitoring of wound healing, *Martina Urbankova, Amires, Czech Republic*
- 5' **AllerScreening** - Point-of-care device based on KETs for diagnosis of food allergies, *Miguel Holgado, CBGP, UPM-INIA, Spain*
- 10' **PhasmaFOOD** - Portable photonic miniaturised smart system for on-the-spot food quality sensing, *Paraskevas Bourgos, WINGS ICT Solutions, Greece*
- 10' **PROTEUS** - Carbon nanotubes approach in water quality monitoring, *Nicolas Giunta, Easy Global Market Valbonne, France and Nicolas Massonnet, Ecole Polytechnique, France*
- 10' **LoveFood2Market** – A portable MicroNanoBioSystem and Instrument for ultra-fast analysis of pathogens in food: Innovation from lab prototype to pre-commercial instrument, *Zuzana Bilkova, UPCE, Czech Republic*
- 10' **SOCKETMASTER** – Development of a Master Socket for optimised design of prosthetic socket for lower limb amputees, *Jianxin Gao, TWI Ltd, UK*

15'	SAPHELY - Self-amplified photonic biosensing platform for microRNA-based early diagnosis of diseases, Jaime Garcia-Ruperez , <i>Universidad Politécnica de Valencia, Spain</i>
15'	PHOCNOSIS - Advanced nanophotonic point-of-care analysis device for fast and early diagnosis of cardiovascular diseases, Jaime Garcia-Ruperez , <i>Universidad Politécnica de Valencia, Spain</i>
15'	SMARTER-SI - Smarter Access to Manufacturing for Systems Integration, Eric Moore , <i>Tyndall Institute, Ireland</i> Smart system for cell and tissue culture with integrated electrode for TEER measurements, Guy Voirin , <i>CSEM, Switzerland</i>

Day 1 Evening Session 17:30 - 18:30

InSSIght Workshop : An ecosystem view on Micro Nano Bio Systems

Chair: Mark de Colvenaert

Parallel Session	Interactive discussion on multi-stakeholder, cross-discipline, interregional innovation
60'	Coffee Table approach: 2 tables, 1 topic per table, participants rotate between tables, creative approach which allow for structured discussion, Mark de Colvenaert , <i>DSP Valley, Belgium</i>

Day 2 - Wednesday 13th Dec 2017

Ecosystems and key innovation MNBS issues

10:45 - 12:15 (incl. Q&A)

Chairs: Eric Moore, Ronald Dekker

The TRL loop of innovation, Technology Assessment (HTA)	Transforming a mature technology into a viable clinical solution: the Loop of Innovation - <i>Dr. Furio Gramatica (Fondazione don Gnocchi)</i>
Regulation, Standards	Standardisation of MNBS Building Blocks for manufacturing - <i>Petra Weiler (VDI/VDE-IT)</i>
Multi-stakeholder innovation & SMEs	Multi-stakeholder innovation & SMEs - <i>Richard Crotty (Environmental Laboratory Services Ltd)</i>
User perspective and real-life implementation on MNBS	Point of Care Measurements - Possible market barriers for high tech solutions - A business perspective - <i>Christian Braun (Roche Diagnostics GmbH)</i>
Emerging MNBS technologies	European Developments on Organ-on-a-Chip - <i>Janny van den Eijnden (hDMT¹)</i>

Future Challenges and Opportunities

13:30 - 15:00 (incl. Q&A)

Chairs: Andreas Lymberis, Richard Crotty

DEI (Digitising European Industry)-DSM (Digital Single Market)	Smart Anything Everywhere and Digital Innovation Hubs - <i>Rainer Günzler (Hahn-Schickard)</i>
Cross KET innovation for Healthcare	Combining KETs for disruptive healthcare - <i>Patrick Boisseau (CEA), ESTHER²</i>
EPoSS ETP & ECSEL/IMI JUs	2017 Strategic Research Agenda for Electronic Components and Systems on MNBS - <i>Renzo dal Molin (Cairdac)</i>
Ongoing EC initiatives and WP18-20	MNBS Funding opportunities H2020- <i>Nikolaos Kattavenos (European Commission)</i>
Opportunities for future MNBS strategic	AIOTI³ WG Wearables tbc

¹ Human Organ and Disease Model Technologies

² Industry Driven Initiative on Emerging and Strategic Technologies for Healthcare

³ Alliance for Internet of Things Innovation

Summary of InSSight Workshop results, Panel Discussion and Closing Notes