

KET*

Focus on (*) Key Enabling Technologies - nanotechnologies, advanced materials, advanced manufacturing and processing



INNOVATE TOGETHER

27th June 2019 - Strasbourg - FRANCE

Project idea/ Field of expertise:

Finnish Centre of Excellence in body on chip research (CoEBoC) combines transdisciplinary expertise on human stem cells, biomaterials, sensors, microfluidics, bio-modeling and bioimaging. www.bodyonchip.fi

Organisation Name: Tampere University, Tampere, Finland

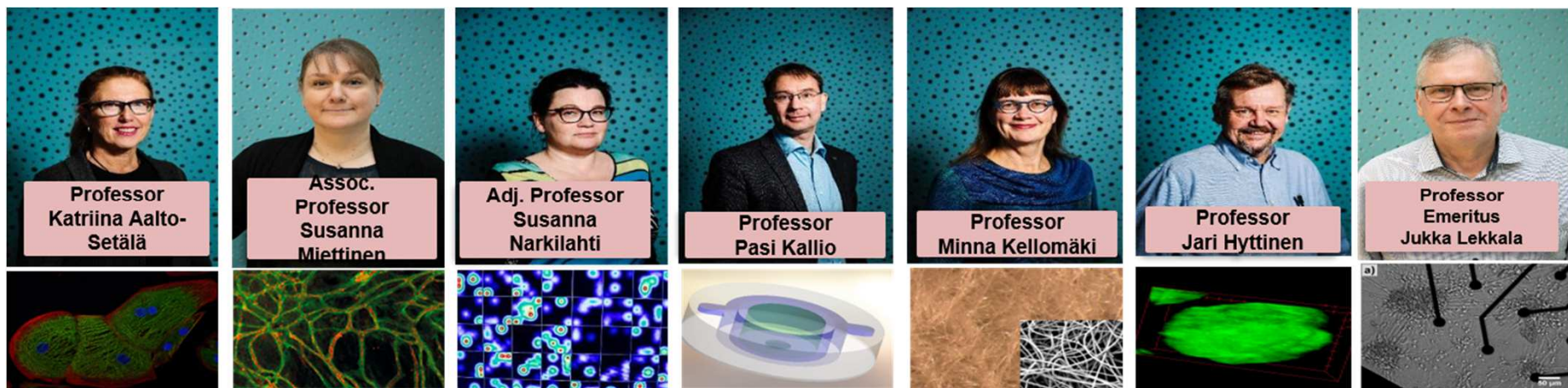
**Adressed challenge(s)/ NA
PPP(s):**

**Adressed topic(s) in
Work Programme:**

NMBP-35-2020: Towards harmonised characterisation protocols in NMBP (RIA),
DT-FOF-07-2020: Assembly of micro parts (RIA)
BIOTEC-07-2020: Multi-omics for genotype-phenotype associations (RIA)
NMBP-21-2020: Biological scaffolds for tissue regeneration and repair (RIA)

Tampere University- Body on chip Centre of Excellence

- Tampere University 2nd biggest University in Finland
- Our CoE-BoC team's (since 2003) joint funding's (Academy of Finland, Business Finland, EU FT5, 7 FET, Horizon2020 etc.) for over 30 M€, including commercialization projects.



Our expertise

Biology:

- Human pluripotent stem cell derived cardiomyocytes, neural cells, hepatocytes, human mesenchymal cells, osteogenesis, adipogenesis, endothelial cells; vascularization, clinical translation

Engineering:

- Micro- and nanosystems, microfluidics, sensor technology, biomaterial production and characterization, bio-imaging and modeling, clinical translation

Combined in applications:

- 2D and 3D cell models, organs on chips, disease modeling, precision medicine, drug development and screening, etc.

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