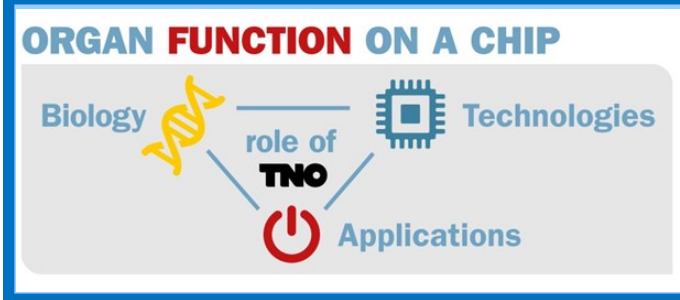
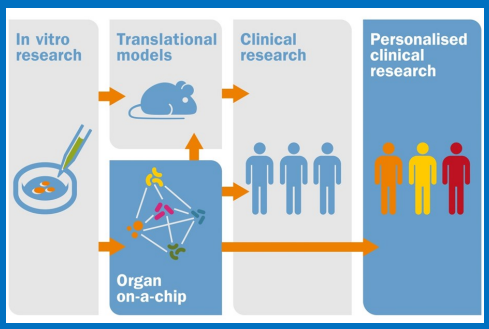
The 3 Dimensions of Organ-on-a-Chip

Symposium, October 31st 2016, 10.00-17.00 Beatrix Building, Utrecht



Organ-on-a-chip technology is not just one technology; it is about living cells and supporting technologies mimicking parts of the human physiology that has applications not only the pharmaceutical industry but also in the diagnostic, food, cosmetic and chemical industry. Human biology, technology and applications; the three dimensions of organ-on-a-chip. This symposium will show the TNO approach on combining biology and technology into applications and it will address these three dimensions in several examples .

Program



9.30-10.00	*Registration and coffee*
10.00-10.15	Welcome, C. Krul, TNO
10.15-10.30	Introduction, R. Ostendorf , TNO
	BIOLOGY
10.30-10.50	Lung+ microbiome, B. Keijser, TNO
10.50-11.10	NASH and diabetes, R. Kleemann, TNO
11.10-11.30	Organoids and IBD, G.M. Fuhler , Erasmus
11.30-12.00	Title to be announced, C. Bertinetti, Roche
12.00-13.00	*Lunch*
	TECHNOLOGIES
13.00-13.20	Human stem cell technologies, A. Asplund, Takara BioEurope
13.20-13.40	Ring resonators, B. de Boer, TNO
13.40-14.00	Manufacturing villi scaffolds, A. Storm, TNO
14.00-14.20	hiPSC-derived cardiomyocyte technology, M. Vlaming, Pluriomics
14.20-14.40	AFM , M. van der Heiden, TNO
14.40-15.00	*Coffee break and networking*
	APPLICATIONS
15.00-15.20	Inhalation exposure, I. Kooter, TNO
15.20-15.40	Liver functional pathways on a chip, R. Hanemaaijer, TNO
15.40-15.00	InTESTine, Organoids , JP. ten Klooster, HU, E. van de Steeg, TNO
16.00-16.05	Closing remarks
16.05-17.00	*Informal get together, drinks*