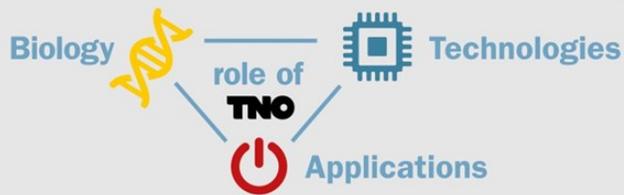


The 3 Dimensions of Organ-on-a-Chip

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

ORGAN FUNCTION ON A CHIP



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*

