

# TissUse Seminar Cambridge, MA

..... **Topic: The impact of *in vitro* Multi-Organ-Chip systems – introducing the academic and industrial applications of HUMIMIC Chips**

**Microphysiological systems (MPS)** are perfused cell culture models, which replicate particular parts of an organ in terms of both structure and performance. These systems typically consist of multiple cell types that are arranged in a manner that is similar to the arrangement in that organ. MPS have proven to be a powerful tool for recreating human tissue- and organ-like functions at research level, providing the basis for the establishment of qualified preclinical assays with improved predictive power.



**Monday, March 13**  
3:00-6:00 PM



**Cambridge Innovation Center | Mosaic Room (3rd floor)**  
245 Main St, Cambridge, MA 02142



**Part 1:** TissUse's established **Multi-Organ-Chip solutions** and their industrial adoption.



**Part 2:** **Automated assays** as a robust tool for safety and efficacy testing of drug candidates.



**Part 3:** **Q&A session**, followed by a relaxed **get-together** accompanied by refreshments and beverages.

..... Attendance is free of charge.  
**Please register *here*.**



## Speaker

**Dr. Reyk Horland** was appointed CEO of TissUse in October 2020 following 8 years as Head of Business Development. Since 2010 he has implemented a profitable product business with a remarkable annual sales growth rate and has led the market launch of the HUMIMIC® technology in 2014. His business network includes leading pharmaceutical and consumer product companies as well as regulatory authorities and outstanding research institutions worldwide. Prior to TissUse, Dr. Horland studied Biotechnology at the Technische Universität Berlin and specialized in Medical Biotechnology. During his academic career he was involved in various tissue engineering programs, all with a focus on the commercialization of the respective products. He gained experience in marketing and sales in various German companies.



## Organizer

**TissUse** is a Berlin, Germany-based, biotechnology company, which has developed a unique “Multi-Organ-Chip” platform that provides unparalleled preclinical insight on a systemic level using human tissues. This enabling technology platform consists of a miniaturized construct that closely simulates the activity of multiple human organs in their true physiological context. TissUse’s Multi-Organ-Chips provide a new approach to predict, for example, toxicity, ADME profiles and efficacy in vitro, reducing and replacing laboratory animal testing and streamlining human clinical trials.

TissUse’s Multi-Organ-Chips have been utilized in a large variety of applications including drug development, cosmetics, food and nutrition and consumer products since 2012.

Additionally, TissUse is applying its platform and know-how to develop spin-off programs in a variety of tissue and organ repair areas starting with the cosmetic market of hair transplants.

## Technology

Wish for more information about our **MPS technology** and its applications in advance? Have a look at our [Technology brochure](#) or browse through our [publications](#).



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