

24<sup>th</sup> October 2019

# TEDD Annual Meeting 2019

Cell Sources and Stem  
Cell Generation for  
Drug Development

Campus Grüental, Wädenswil  
Switzerland

## Invitation

Primary and stem cells are becoming important sources for the generation of organotypic tissue models used in many biopharmaceutical applications, regenerative medicine, disease modelling and drug discovery. Stem cells promise to revolutionise the drug discovery process at all stages, from target identification to toxicology studies.

While primary cells would represent native tissue most accurately, they usually have limited capacity to divide and thus need to be freshly isolated for each assay, limiting their application. In contrast, the ability of stem cells to generate physiologically relevant cells in limitless supply makes them an attractive alternative to currently used recombinant cell lines or primary cells. Emerging technologies involve the production of organoids from human pluripotent stem cells (hPSCs) and the use of organ-on-a-chip devices. These approaches are showing great promise for developing a more reliable, rapid and cost-effective process when compared with the current use of animal models.

The current challenges include directing stem cell differentiation towards pure specific lineages in a reproducible and cost-effective way.

During TEDD Annual Meeting, we will discuss how stem cells have already been used in the drug discovery process and how novel technologies can be applied to attain widespread adoption of stem cell technology by the pharmaceutical and biotech industry.

As every year, several companies will exhibit during our famously long lunch break at the Greenhouse, where we will have the opportunity to interact with each other.

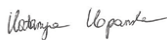
Join us for this meeting to celebrate another fruitful year of collaboration with a fresh perspective ahead.



Dr Markus Rimann  
Chair



Prof Michael Raghunath  
Co-Chair



Dr Katarzyna Kopanska  
Project Manager

# Program – Thursday, 24<sup>th</sup> October 2019

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09.00	<b>Registration and Welcome Coffee</b>
09.30	<b>Welcome Address</b> Prof Christian Hinderling, Director of Institute of Chemistry and Biotechnology, ZHAW Zurich University of Applied Sciences, Switzerland
09.35	<b>Opening of the Meeting</b> Dr Markus Rimann, TEDD Competence Centre, ZHAW Zurich University of Applied Sciences, Switzerland
09.45	<b>Keynote</b> <b>Heart Sweetheart: from Cardiogenesis to Cardiac Engineering</b> Dr Marisa Jaconi, University of Geneva, Faculty of Medicine, Department of Pathology and Immunology, Switzerland
10.30	<b>Isolation and Cultivation of Human Mesenchymal Stem Cells MSC under Physiological Conditions</b> Prof Cornelia Kasper, University of Natural Resources and Life Sciences (BOKU), Austria
11.00	<b>Oral Progenitor Cell Exosomes for Enhanced Tissue Repair</b> Prof Phil Stephens, Cardiff University, United Kingdom
11.30	<b>Spheroid Formation Primes Somatic and Senescent Cells to Reprogramming by Small Molecules</b> Prof Kenneth Lee, Chinese University of Hong Kong, Hong Kong
12.00	<b>Networking Lunch &amp; Exhibition</b>

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14.00	<b>Keynote</b> <b>Development of Multiple Key Technologies for Organoid and Organs-on-a-Chip Research</b> Prof Zhongze Gu, Southeast University, China
14.45	<b>Robust and Efficient Tools for Pluripotent Stem Cell and Organoid Research</b> Dr Wing Chan, STEMCELL Technologies, United Kingdom
15.15	<b>Producing GMP-grade iPSCs for Drug Screening and Translational Medicine Using Safe mRNA Strategy</b> Dr Parto Toofan, REPROCELL Europe, United Kingdom
15.45	<b>Core TEDD Competencies</b> Prof Michael Raghunath Dr Markus Rimann Dr Bruno Fillippi Centre for Cell Biology and Tissue Engineering, ZHAW Zurich University of Applied Sciences, Switzerland
16.20	<b>Final Remarks and TEDD next Steps</b> Dr Markus Rimann, TEDD Competence Centre, ZHAW Zurich University of Applied Sciences, Switzerland
16.30	<b>Aperitif and Networking</b>

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## Exhibitors



CORNING



## Further Details

### Costs

TEDD Partner/Two first participants:	no entrance fee
TEDD Partner/Third and next participant: 50% off standard fee	CHF 80.-
Standard fee:	CHF 160.-
Students:	CHF 80.-

### Registration: [www.zhaw.ch/icbt.tedd](http://www.zhaw.ch/icbt.tedd)

Opens: 5. August 2019

Deadline: 7. October 2019

### Contact

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### Venue

ZHAW School of Life Sciences  
and Facility Management  
Campus Grüental, Aula GA 203 (talks)  
and Kalthaus GC 181 (exhibition)  
Grüentalstrasse 14, P.O. Box  
8820 Wädenswil  
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