

Cell Physiology & Cellular engineering Prof. Dr. Jack Rohrer Email: jack.rohrer@zhaw.ch Tel: +41 (0) 58 934 57 17

Induced pluripotent stem cells

The group of **Cell Physiology & Cellular Engineering** offers to its project partners access to its proprietary **human induced pluripotent stem cell lines** (iPSCs). IPSCs can be integrated into **cell-based assay setups** to test substances or culture conditions on various aspects of stem cell physiology. IPSCs can also be sued as a **sustainable source** of **"primary-like" cells** through **targeted differentiation**

Example of use: iPSC Reactive Oxygen Species (ROS) assay



iPSC ROS assay with a test compound The protective effect of a test compound against reactive oxygen species on pluripotent stem cells was quantified using the iPSC ROS assay

This experiment proves that the test compound **protects stem cells** from reactive oxygen species

Example of use: Targeted differentiation



Contact Research Group

Prof. Dr. Jack Rohrer

Group head Cell Physiology & Cellular Engineering Institute for Chemistry and Biotechnology Zurich University of Applied Sciences Einsiedlerstrasse 31 8820 Wädenswil, Switzerland Phone: +41 (0) 58 934 5717 E-Mail: jack.rohrer@zhaw.ch Website: https://www.zhaw.ch/en/lsfm/ institutes-centres/icbt/cell-biology-andtissue-engineering/cell-physiology-andcellular-engineering/