

Masterarbeiten Biomedizin 2022-2023

Supervisor	Institut // Klinik // Dept.	Thema
Prof. J. Reichenbach	Institute for Regenerative Medicine, UZH	Safety aspects of off-target transgene expression upon gene therapy in the hematopoietic system
Dr. R. Grossmann	Clinical Trial Center, Universitätsspital ZH (USZ)	From Patients for Patients - A barrier-free General Consent
Prof. M. Levesque	Dermatologische Klinik, Translational Dermato-Oncology, Universitätsspital ZH (USZ)	Investigating Resistance Mechanisms to MEK Inhibitor Therapy and the Role of Small Extracellular Vesicles in NRAS-mutated Cutaneous Melanoma
PD Dr. Th. Biedermann	Tissue Biology research Unit, Universitätskinderspital ZH	Bio-engineering of human fetal cartilage using amniotic fluid stem cells
Prof. Peter Sander	Institut für Medizinische Mikrobiologie, UZH	Characterization of Tigecycline and Tetracycline Resistance Mechanisms in <i>Mycobacterium abscessus</i> complex
PD Dr. P. Cinelli	Klinik für Traumatologie, Universitätsspital ZH (USZ)	Investigating the effect of SFRP4 on the osteogenic differentiation potential of hAD-MSCs
Dr. A. Dobay		Assessing the spatio-temporal variation in quorum sensing gene expression across individual cells in the human opportunistic pathogen <i>Pseudomonas aeruginosa</i>
Prof. L. Borsig	Institute of Physiology, UZH	The role of CCR1 and CCR2 chemokine axis in metastasis
Prof. E. Markkanen	Institute of Veterinary Pharmacology und Toxicology, UZH	Assessing the role of fibroblast-derived candidate genes on breast cancer cells using cellular phenotypic assays and spheroid-based 3D co-culture
Prof. M. Ehrbar	Klinik für Geburtshilfe, USZ	Bioengineering 3D lymphatic vascular structures in synthetic matrices
Prof. A. Trkola	Institute of Medical Virology, UZH	Broadly neutralizing inhibitors of HIV-1
Prof. G. Kania	Klinik für Rheumatologie, USZ	The Role of Macrophages and Monocytes in 3D Human Cardiac Microtissue Fibrosis Model
Dr. R. Rust	Institute for Regenerative Medicine, UZH	Towards a Universal Cell Therapy for Stroke
Prof. H. Hilbi	Institut für Medizinische Mikrobiologie, UZH	The Role of Large Fission GTPases for the Infection of <i>Dictyostelium discoideum</i> by <i>Legionella pneumophila</i>

Prof. M. van den Broek	Institute of Experimental Immunology, UZH	The role of cGAS and IFN-g signaling in the induction of metastatic dormancy in breast cancer
Prof. Peter Sander	Institut für Medizinische Mikrobiologie, UZH	Potential of the Antimicrobial Effect of Colistin in <i>Acinetobacter baumannii</i>
Prof. Peter Sander	Institut für Medizinische Mikrobiologie, UZH	Potential of Aminoglycoside Antimicrobial Activity against <i>Acinetobacter baumannii</i>
Dr. M. Thiersch	Institute of Veterinary Physiology, UZH	Tumor Hypoxia at High-Altitude
Prof. E. Grünblatt	Translationale molekulare Psychiatrie, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	Effects of ω -3 fatty acids on cellular growth in ADHD patients compared to controls using iPSC-derived NPCs
Prof. E. Grünblatt	Translationale molekulare Psychiatrie, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	Effects of methylphenidate on Wnt-activity using iPSC-derived NSCs from ADHD patients and healthy controls
Prof. R. Kümmerli	Department of quantitative Biomedicine, UZH	Assessing the temporal changes in the network topology and the co-evolutionary patterns of the pathogens <i>P. aeruginosa</i> , <i>S. aureus</i> and <i>H. influenzae</i> in children suffering from cystic fibrosis
Prof. M. Hottiger	Department of Molecular Mechanisms of Disease, UZH	The role of ADP-ribosylation during inflammatory signaling in macrophages and microglia
Dr. M. Thiersch	Institute of Veterinary Physiology, UZH	Impact of High Altitude on Tumor Metabolism
Prof. S. Stertz	Institute of Medical Virology, UZH	<i>Investigating the role of respiratory mucus in host defence against influenza A viruses</i>
PD Dr. C Haas	Institut für Rechtsmedizin, Forensic Genetics, UZH	Determining Time since Deposition of body fluid samples through microbial 16S rRNA gene analysis
Prof. S. Brem	Multimodales Neuroimaging, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	Self-Regulation of Activity in Reading-Related Brain Regions Before and After Real-Time fMRI Neurofeedback Training

Prof. A. Trkola	Institute of Medical Virology, UZH	Understanding broadly neutralizing antibody evolution in a slow-progressing HIV-1 infected individual
Prof. S. Brem	Multimodales Neuroimaging, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	<i>Multisensory learning and processing in the brain</i>
Prof. R. Kouyos	Klinik für Infektionskrankheiten und Spitalhygiene, USZ	Using Viral Diversity to Identify HIV Variants Under HLA-Dependent Selection in a Viral Genome-Wide Screen
PD O. Ogunshola	Institute of Veterinary Physiology, UZH	Adenosine diphosphate ribose - Does it protect against injury-induced blood-brain barrier dysfunction in vitro?
Prof. M. Levesque	Dermatologische Klinik, Translational Dermato-Oncology, Universitätsspital ZH (USZ)	Assessment of natural peptides for the treatment of basal and squamous cell carcinoma
Prof. Th. Buch	Institute of Laboratory Animal Science, UZH	<i>Dissecting the Role of Toll-like Receptors in Experimental Autoimmune Encephalomyelitis</i>
Dr. C. Boyle-Neuner	Institute of Veterinary Physiology, UZH	The Impact of high-energy diet, polygenic obesity and reproductive state on the dopamine response to cues predicting food reward
Dr. L. Pontiggia	Tissue Biology research Unit, Universitätskinderspital ZH	<i>Production of dermal epidermal skin substitutes with rete ridges</i>
Prof. B. Becher	Institute of Experimental Immunology, UZH	<i>Deciphering the Healthy Immune Landscape of B-cell Non-Hodgkin's Lymphoma Patients under Targeted-drug Pressure</i>
Prof. A. Jäggi	Institute of Evolutionary Medicine, UZH	<i>Quantitative Genetics of Health traits in a small-scale society</i>
Prof. M. Lopes	Institute of molecular cancer research, UZH	<i>Elucidating the role of LAP2α in the immediate response to DNA replication stress</i>
Prof. Reto Huber	Entwicklungs pädiatrie, Schlafforschung, Universitätskinderspital ZH	<i>Modulation of Specific Sleep EEG Characteristics to Investigate their Relationship to Recovery</i>
Prof. L. Borsig	Institute of Physiology, UZH	<i>The role of immunomodulatory receptor CD137 on the endothelium during liver metastasis</i>
PD Dr. S. Froese	Stoffwechselerkrankungen (research Metabolism), Universitätskinderspital ZH	<i>Development of FLIM-FRET to visualize and quantify protein-protein interactions</i>

Prof. B. Becher	Institute of Experimental Immunology, UZH	<i>High-dimensional flow cytometry and serum profiling in patients with acute myeloid leukemia</i>
PD Dr. A. Klar	Tissue Biology research Unit, Universitätskinderhospital ZH	<i>Development and characterization of adipose spheroids to model obesity-related metabolic disorders</i>
Prof. M. Krauthammer	Department of quantitative Biomedicine, UZH	<i>Detection, monitoring and identification of cancer based on a multimodal cell free DNA analysis</i>
PD Dr. N. Bender	Institute of Evolutionary Medicine, UZH	<i>Associations between anthropometric measures and body dissatisfaction and body appreciation in adults of both sexes</i>
Prof. S. Brem	Multimodales Neuroimaging, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	<i>Brain Activation During Reading: An Investigation of the Association with Behavioral Reading Tasks and the Influence of Real-Time fMRI Neurofeedback</i>
Prof. K. Basler	Department of Molecular Life Sciences, UZH	<i>CRISPorting: Static and dynamic monitoring of endogenous gene expression using CRISPR technology</i>
Dr. M. Liechti	Spinal Cord Injury Center, Universitätsspital Balgrist	<i>Resting-state electroencephalogram in neuro-urological dysfunction</i>
PD Dr. N. Bender	Institute of Evolutionary Medicine, UZH	<i>Lifestyle changes and their impact on body composition during the covid-19 pandemic</i>
PD Dr. B. Bornhauser	Onkologie, Universitätskinderhospital ZH	<i>Biomarker-driven dasatinib therapies in paediatric high-risk leukaemia</i>
Dr. Chr. Tackenberg	Institute for Regenerative Medicine, UZH	<i>Effects of APOE on energy metabolism in iPSC-derived neurons</i>
Prof. S. Brem	Multimodales Neuroimaging, Klinik für Kinder- und Jugendpsychiatrie, Psychiatrisches Universitätsspital ZH	<i>Investigation of the neural correlates of speech processing and (in-) congruence effects in adults and children using an fMRI movie paradigm</i>
Prof. H.P. Landolt	Institute of Pharmacology and Toxicology, UZH	<i>About the Common Practice to Catch up on Sleep at the Weekend: The Effects of Mild Chronic Sleep Restriction and Sleep Deprivation on the Stress System, Circadian Phase, Sleepiness and Cognitive Performance in Humans</i>

Prof. M. Lopes	Institute of molecular cancer research, UZH	<i>Investigating the role of NIPBL in response to DANN replication stress</i>
Prof. M. Polymenidou	Department of quantitative Biomedicine, UZH	<i>What is all the FUSs about? Developing human ALS-FUS models to investigate the role of FUS on the synthesis of the synaptic protein Neurexin1 in ALS and FTD</i>
Prof. G. Schwank	Institute of Pharmacology and Toxicology, UZH	<i>Treatment of Parkinson's disease by in vivo base editing</i>