

## «National MD-PhD Grants Program»: list of grantees\*

### 2023

**Bilfeld Gilles, Institute for Molecular Health Sciences, ETH Zürich**

Exploiting circulating tumor cells for the identification of immunotherapy responders  
CHF 196'341.– (KFS)

**Bürgin Damian, Department for Biomedical Research, Universität Bern**

The functional role of CD93 in multiple myeloma  
CHF 190'851.– (KFS)

**Fixemer Jonas, Departement Biomedizin, Universität Basel**

Transcriptional regulation of memory B cells in chronic viral infection  
CHF 192'957.– (SNSF)

**Franzen Jan, Vetsuisse-Fakultät, Universität Bern**

Identification and functional characterization of novel Clostridium perfringens hemolysin-like beta-pore-forming toxins  
CHF 127'234.– (FSZ)

**Huber Aurélie, Centre médical universitaire, Université de Genève**

Development of multimodal MRI to assess the quality of a kidney allograft  
CHF 208'068.– (SNSF)

**Jordi Jonathan, Klinik für Psychiatrie, Psychiatrische Universitätsklinik, Zürich**

Neurobiology underlying stress-induced reward pathologies: focus on the bidirectional nucleus accumbens-ventral tegmentum neural circuit in a mouse model  
CHF 185'629.– (SNSF)

**Jordi Sebastian, Department for Biomedical Research, Universität Bern**

Metabolic dynamics of the small intestinal microbiota upon nutritional challenges  
CHF 132'536.– (SAMS)

**Lyon Arnaud, Département de médecine et chirurgie, CHUV, Lausanne**

Immuno-metabolic impact of Hydrogen Sulphide on sex-specific response to Ischemia-reperfusion injury  
CHF 134'885.– (SNSF)

**Nikaj Andi, Departement Klinische Forschung, Universitätsspital/Universität Basel**

Oxytocin substitution therapy in patients with central diabetes insipidus: a double-blind randomized-controlled trial - The OxyTUTION trial  
CHF 192'957.– (SNSF)

**Peisl Sarah, Universitätsklinik für Viszerale Chirurgie, Inselspital, Bern**

Role of biliary microbiota in biliary injury and the development of cholangiopathy  
CHF 190'851.– (SAMS)

**Reiser Aurelia, Institute of Veterinary Physiology, Universität Zürich**

The role of iron homeostasis in pulmonary hypertension  
CHF 196'548.– (MDC)

**Roggo Andrea, Dermatologische Klinik, Universitätsspital Zürich**

Exploring the etiology of pruritus in cutaneous T-cell lymphoma towards targeted therapy  
CHF 131'032.– (SNSF)

**Saccaro Luigi, Département de radiologie et informatique médicale, Université de Genève**

Transdiagnostic markers of vulnerability to emotion dysregulation disorders: a multimodal approach  
CHF 208'068.– (SAMS Ott grant)

**Schönenberger Christoph, Departement Klinische Forschung, Universitätsspital/ Universität Basel**

Tackling cardiovascular risk factors in Swiss people living with HIV using the «Trials Within Cohort» design  
CHF 192'957.– (SNSF)

**Szalai Timéa, Département des neurosciences fondamentales, Université de Genève**

High-throughput identification of disrupted molecular pathways in schizophrenia patients  
CHF 208'068.– (SNSF)

**2022**

**Delal Dalga, Centre médical universitaire, Université de Genève**

The role of PCK1 in kidney health and disease  
CHF 203'112.– (SNSF)

**Dimitrios Daskalou, Département des neurosciences cliniques, HUG, Genève**

NADPH oxidase 3 inhibition to prevent radiosurgery-induced hearing loss in vestibular schwannoma  
CHF 203'112.– (SAMS)

**Justine Epiney, Swiss Institute for Experimental Cancer Research, EPFL, Lausanne**

Identification of resistance mechanisms limiting Antibody-Dependent Cellular Phagocytosis (ADCP) in B-cell lymphoma  
CHF 191'553.– (KFS)

**Timothée Ferrari, School of Life Sciences, EPFL, Lausanne**

Next generation multi-modal analysis of tumoral heterogeneity in peripheral blood  
CHF 191'553.– (SNSF)

**Mehdi Ali Gadiri, School of Engineering, EPFL, Lausanne**

Development of a microrobotic device for cardiovascular interventions  
CHF 191'553.– (SNSF)

**Christian Haas, Dermatology/Biomedical Engineering, Universitätsspital/Universität Basel**

OCT-guided laser skin ablation system  
CHF 188'250.– (SNSF)

**Samuel Jones, Department of clinical neurosciences, CHUV, Lausanne**

Identification of autoreactive CD8+ T cells in MS patients using autologous human-induced pluripotent stem cell-derived brain cells  
CHF 154'307.– (SAMS Ott grant)

**Deniz Kaymak, Departement Biomedizin, Universität Basel**

Deciphering the role of ID1 in tumor-associated microglia in glioblastoma  
CHF 188'250.– (KFS)

**James Kim, Pädiatrische Onkologie, Kinderspital Zürich**

Relapsed TCF3-PBX1 ALL - Identifying drivers of resistance in a model of relapsed very high risk ALL  
CHF 126'601.– (KFS)

**Lukas Kübler, Departement Biomedizin, Universität Basel**

Tumor reactive stroma in cholangiocellular carcinoma: mechanisms of induction and impact on response to chemotherapy  
CHF 188'250.– (SNSF)

**Léna Mazza, Centre médical universitaire, Université de Genève**

Natural substrates of multidrug efflux pumps in *Pseudomonas aeruginosa*: a possible source for efflux pumps inhibitors?  
CHF 146'692.– (SNSF)

**Matthias Rath, Institute of Experimental Immunology, Universität Zürich**

Regulatory T cells in Th17 dominated disease  
CHF 189'902.– (SNSF)

**Alexander Von Hoyningen-Huene, Département de neurosciences fondamentales,  
Université de Genève**

Cellular determinants of subthalamic nucleus function

CHF 203'112.– (SAMS)

2021

**Julien Angelillo, Département de pathologie et d'immunologie, HUG, Genève**

Deciphering the cross-talk between innate lymphoid cells and tumor-associated lymphatic vessels to improve anti-tumor immunity

CHF 146'692.– (KFS)

**Louis-Emmanuel Chriqui, Service de chirurgie thoracique, CHUV, Lausanne**

Vascular and immune impact of photodynamic therapy combined to immune checkpoint inhibition in malignant pleural mesothelioma: insights from an intravital imaging model

CHF 191'553.– (KFS)

**Morgane Decollogny, Institut für Tierpathologie, Vetsuisse, Universität Bern**

Targeting the niche of drug-tolerant tumor-repopulating cells to eradicate residual disease in triple-negative breast cancer

CHF 189'902.– (SNSF)

**Manuel Egle, Department for Biomedical Research, Cardiovascular Surgery, Universität Bern/Inselspital**

Cardiac graft preservation and evaluation in transplantation with donation after circulatory death

CHF 189'902.– (SNSF)

**Corinne Eicher, Klinik für Psychiatrie, Psychotherapie und Psychosomatik, Psychiatrische Universitätsklinik Zürich**

Local sleep deprivation by closed-loop acoustic stimulation in depression: an experimental study of an innovative treatment approach

CHF 189'902.– (SNSF)

**Felix Gerber, Swiss Tropical and Public Health Institute, Basel**

Generating evidence to improve access to early initiation of antiretroviral therapy in persons living with HIV in resource-limited settings

CHF 188'250.– (SNSF)

**Tim Jonas Hallenberger, Klinik für Neurochirurgie, Universitätsspital Basel**

The role of early minimally invasive endoscopic surgery in spontaneous supratentorial intracerebral haemorrhage

CHF 188'250.– (SAMS)

**Sarah Jungius, Departement Biomedizin, Universität Basel**

SHP2 as a mediator of MAPK activation in myeloproliferative neoplasms: molecular mechanism and translational potential

CHF 188'250.– (SNSF)

**Benedict Morin, Departement Biomedizin, Universität Basel**

Mechanisms of intracellular persistence of Staphylococcus aureus in human infection

CHF 188'250.– (SNSF)

**Simon Schading, Zentrum für Paraplegie, Universitätsklinik Balgrist**

Quantitative and functional MRI investigation of the neurodegeneration associated with spinal cord injury in neuraxis

CHF 189'902.– (SNSF)

**Ramon Stäger, Dermatologische Klinik, Universitätsspital Zürich**

Unravelling the cellular and molecular mechanisms of epithelial skin cancer development through multimodal single cell and spatial analysis

CHF 179'352.– (KFS)

**Katia Steinfeld, Laboratory for Investigative Neurophysiology, CHUV, Lausanne**  
Lifetime changes in visual processing associated with mild myopia  
CHF 191'553.– (SAMS)

**2020**

**Ludivine Bersier, Département d'oncologie, CHUV, Lausanne**

Targeting chemoresistance and immune exclusion in colorectal cancer  
CHF 191'553.– (KFS)

**Dominique Birrer, Klinik für Viszeral-und Transplantationschirurgie, Universitätsspital Zürich**

Division of tasks during accelerated regeneration after ALPPS  
CHF 189'902.– (SNSF)

**Michelle Boeni, Institut für Experimentelle Immunologie, Universität Zürich**

Investigation of Therapeutic Approaches against KSHV-Induced Lymphomas in vitro and in vivo  
CHF 189'902.– (SAMS)

**Mey Boukenna, Institute of Biochemistry and Molecular Medicine, Universität Bern**

TRPM4 in non-cardiomyocytic cells of the heart  
CHF 189'902.– (SNSF)

**Sandro Christensen, Department for Biomedical Research, Universität Bern**

Deciphering microbiota driven (epigenetic) programming of metabolic functions of the offspring in utero and early life  
CHF 189'902.– (SNSF)

**Sophie Monnerat, Klinik für Endokrinologie, Diabetologie und Metabolismus, Universitätsspital Basel**

Effects of the SGLT2 inhibitor empagliflozin in patients with euvolemic and hypervolemic hyponatremia  
CHF 188'250.– (SNSF)

**Cédric Renaud, Service d'endocrinologie, diabétologie et métabolisme, CHUV, Lausanne**

Role of the Nrf2 response system in the pathogenesis of autoimmune thyroiditis  
CHF 191'553.– (SNSF)

**Dominic Schmid, Departement Biomedizin, Universität Basel**

Mechanisms of T Cell Dysfunction in Human Tumors  
CHF 188'250.– (KFS)

**Philippe Valmaggia, Department of Biomedical Engineering, Universität Basel**

Time-resolved 3D Optical Coherence Tomography Angiography for novel biomarkers  
CHF 188'250.– (SNSF)

**Alexandra von Faber-Castell, Institute of Pharmacology and Toxicology, Universität Zürich**

Neuronal lactate transport in brain energy metabolism and the role of aging  
CHF 189'902.– (SNSF)

**Philipp Immanuel Zens, Institut für Pathologie, Universität Bern**

Molecular epidemiology of lung cancer brain metastases  
CHF 189'902.– (SNSF)

**2019****Ranjana Briner, Institut für Sozial- und Präventivmedizin, Universität Bern**

Genital tract infections, the vaginal microbiome and preterm birth in South Africa:  
cross-sectional study

CHF 189'902.– (SNSF)

**Carlo Cervia, Klinik für Immunologie, Universitätsspital Zürich**

In vivo induction of tolerance by targeting critical regulatory T cell signaling pathways with  
bioengineered designer cells

CHF 189'902.– (SNSF)

**Mali Cristina Coray, Departement Biomedizin, Universität Basel**

Atypical chemokine receptors in multiple sclerosis – chemokine availability and clinical potential

CHF 188'250.– (SNSF)

**Maurizio Cortada, Departement Biomedizin, Universität Basel**

Investigating mTOR function in the mammalian inner ear

CHF 188'250.– (SNSF)

**Dr. Inês de Paula Costa Monteiro, Département d'oncologie, CHUV, Lausanne**

Engineering T cell for adoptive cell transfer therapy of cancer

CHF 191'553.– (KFS)

**Anna Faivre, Centre médical universitaire, Université de Genève**

Alterations of tubular metabolism and chronic kidney disease progression

CHF 146'692.– (SNSF)

**Dr. Kathi Ging, Anatomisches Institut, Universität Zürich**

Role of PKD1 and WNK4 in the regulation of the renal thiazide-sensitive NaCl  
cotransporter NCC

CHF 184'627.– (SNSF)

**Michel Godel, Département de psychiatrie, Université de Genève**

Early deviations in auditory neuroprocessing development as prodromal neurobiological  
markers for Autism Spectrum Disorders

CHF 203'112.– (SAMS)

**Philip Schmassmann, Departement Biomedizin, Universität Basel**

Synergistic activation of microglia by targeting CD47 and Siglecs

CHF 188'250.– (KFS)

**Dr. Irma Telarovic, Klinik für Radio-Onkologie, Universitätsspital Zürich**

Radiotherapy treatment volume and its role for the tumor-oriented immune response

CHF 189'902.– (KFS)

**Yves Zurbuchen, Klinik für Immunologie, Universitätsspital Zürich**

Central versus peripheral immune tolerance mechanisms in long-term acceptance of  
allografts

CHF 189'902.– (SNSF)



**2018**

**David Bächinger, ORL-Klinik, Universitätsspital Zürich**

Development of a new two-phase mouse model for Meniere's disease  
CHF 189'902.– (SNSF)

**Dr Aurélie Bochet, Département de psychiatrie, Hôpitaux Universitaires de Genève**

Understanding the comorbidity between Autism Spectrum Disorders and Attention  
Deficit/Hyperactivity Disorder  
CHF 203'112.– (SNSF)

**Philippe Georg Dehio, Departement Biomedizin, Universität Basel**

Serine metabolism and T cell migration  
CHF 188'250.– (SNSF)

**Tanay Kaymak, Departement Biomedizin, Universität Basel**

Investigations on the role of IL-20 cytokine family members in eosinophilic esophagitis  
CHF 188'250.– (SNSF)

**Adrien Lavalley, Département des neurosciences fondamentales, Université de Genève**

Single-cell diversity of corticospinal tract neuron transcriptional programs and connectivity  
CHF 135'408.– (SAMS)

**Marie-Anne Meier, Departement Biomedizin, Universität Basel**

Molecular signature of extracellular vesicles in liver cancer: effects of epithelial-mesenchymal  
transition and response to Sorafenib  
CHF 188'250.– (KFS)

**Marc Pfefferlé, Klinik und Poliklinik für innere Medizin, Universitätsspital Zürich**

Hemolytic stress as a negative regulator of inflammation  
CHF 189'902.– (SNSF)

**Josefine Ruder, Klinik für Neurologie, Universitätsspital Zürich**

Characterization of B lymphocytes in multiple sclerosis - relation to clinical-, MRI characteristics  
and treatments  
CHF 174'077.– (SNSF)

**Florian Ruiz, Département des neurosciences cliniques, CHUV, Lausanne**

Oxysterols and multiple sclerosis: a novel role for endothelial cells?  
CHF 191'553.– (SAMS)

**Frédérica Schyrr, EPFL-ISREC et Service d'hématologie du CHUV, Lausanne**

Identifying the minimal components of the hematopoietic stem cell niche through adipose-  
associated extramedullary hematopoiesis  
CHF 191'553.– (SNSF)

\*since entry into force of the revised National MD-PhD Grants Program regulations of 15 November 2017