

«National MD-PhD Program»: list of awarded individual grants*

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 191'553.– (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 Program regulations of 15 November 2017