

# Research Grants 2022

Research Classifications	Reference	Lead Applicant	Organisation	Project Title	CHF
Adult Congenital Heart Disease	FF22057	Dr. med. Tobias Rutz	CHUV, Centre hospitalier universitaire vaudois	Effect of phosphodiesterase-5 inhibition with tadalafil on the development of interstitial fibrosis in patients with a systemic right ventricle evaluated by T1 mapping	36'780
Angiology / Vascular medicine	FF22047	Dr. med. Sarah Maike Bernhard	Inselspital, Universitätsspital Bern	Establishing deep phenotyping of arteriovenous malformations	50'000
Arrhythmias	FF22063	Dr. med. Jeanne du Fay de Lavallaz	Universitätsspital Basel	Arrhythmia-induced Cardiomyopathy – an international prospective observational case-control study	50'000
	FF22016	Dr. med. Patrick Badertscher	Universitätsspital Basel	Comparison of two pulmonary vein ablation techniques for persistent atrial fibrillation: a randomized, multicenter, superiority design clinical trial	50'000
	FF22043	Prof. Dr. med. Christian Sticherling	Universitätsspital Basel	Clinical validation of an artificial intelligence algorithm offering cross-platform detection of atrial fibrillation using smart-device electrocardiograms	50'000
	FF22036	Prof. Dr. med. Michael Kühne	Universitätsspital Basel	Brain lesions and cognitive functions in patients with and without atrial fibrillation – the Swiss-AF Control Study	99'750
	FF22024	Dr. med. Maria Luce Caputo	Istituto Cardiocentro Ticino	Release velocity ImprovemenT with a new Metronome-guided chest COnpressions protocol	30'000
	FF22020	M.Sc. Thomas Küffer	Inselspital, Universitätsspital Bern	Pulsed-field ablation for ventricular arrhythmias – A translational project	50'000
	FF22005	Dr. med. Philipp Krisai	Universitätsspital Basel	Colchicine after Electrocardioversion for Persistent Atrial Fibrillation - The COL-ECTRO AF Trial	50'000
Biomarkers	FF22075	Dr. Anna (Ganna) Isayeva	Universität Basel	Novel Atherosclerosis Markers s-LOX-1 and JCAD in the Early Detection of Functionally Relevant Coronary Artery Disease	60'000
Cardio-Oncology	FF22101	Prof. Dr. med. Gabriela M. Kuster Pfister	Universitätsspital Basel	The hidden cardiotoxicity of Flt3-targeting tyrosine kinase inhibitors	50'000
Coronary Artery Disease	FF22080	PD Dr. med. Jelena-Rima Templin-Ghadri	Universitätsspital Zürich	Establishment of Artificial Intelligence in the Management of Spontaneous Coronary Artery Dissection: a Novel Approach to Improve Treatment and Outcomes	60'000
	FF22040	Dr. med. Miklos Rohla	Inselspital, Universitätsspital Bern	Algorithm-based tailoring of dual antiplatelet therapy to improve outcomes following percutaneous coronary interventions (TAILOR-DAPT)	50'000
	FF22007	Prof. Dr. med. Michael Zellweger	Universitätsspital Basel	Coronary Artery Disease – PAtient Tailored Imaging Evaluation by Non-invasive Techniques trial - (CAD-PATIENT trial)	60'470
Lipids	FF22028	Prof. Dr. med. Arnold Von Eckardstein	Universitätsspital Zürich	Does angiopoietin-like protein 3 (ANGPTL3) affect the interactions of low- and high-density lipoproteins with aortic endothelial cells?	58'000
CT	FF22097	PD Dr. med. Aju Pazhenkottil	Universitätsspital Zürich	Cardiovascular Effects of Stress: Association of human Biomarkers with novel Cardiac Imaging Markers of Inflammation	50'000
Echocardiography	FF22102	Prof. Dr. med. Christian M. Matter	Universitätsspital Zürich	Machine learning-based interpretation of ECG and TTE – building on the SwissHeart Failure Network	50'000
Heart Failure	FF22124	Dr. Era Gorica	University of Zurich	Epigenetic inheritance of toxic stress as a determinant of heart failure across multiple generations	70'000
	FF22116	Prof. Dr. med. Jürg-Hans Beer	Kantonsspital Baden	Mechanisms and clinical implication of gut-microbiota derived phenylacetylglutamine in heart failure with preserved ejection fraction (HFpEF) (The Gut-Risk Study)	50'000
	FF22112	Dr. Desiree Nadine Wussler	Universitätsspital Basel	Comprehensive vasodilation harms women with acute heart failure-Novel insights from the GALACTIC randomized trial	50'000
Cardiomyopathies	FF22093	PD Dr. Anna Marsano	Universität Basel	In vitro mimicking of in vivo myocardial damages and cardiac troponin release	50'000
	FF22019	Prof. Dr. med. Lucio Barile	Istituto Cardiocentro Ticino	Unveiling mechanism of amyloidogenic light chain (LC) induced cardiotoxicity	95'000
Hypertension	FF22042	PD Dr. med. Dipl.-Math. Ph.D. M.Sc. Martin Müller	Inselspital, Universitätsspital Bern	Cuffless monitoring and tele-counseling to control blood pressure after emergency visits with severe hypertension - a randomized controlled trial	40'000

# Research Grants 2022

Research Classifications	Reference	Lead Applicant	Organisation	Project Title	CHF
Pediatric Cardiology	FF22035	Prof. Dr. med. Walter Knirsch	Universitäts-Kinderspital Zürich	Establishing a fetal lamb model for hypoplastic left heart syndrome – pilot study	50'000
Prevention / Rehabilitation	FF22129	Dr. med. Baris Gencer	Hôpitaux Universitaires Genève	Moderate alcohol consumption and heart function in patients with a recent myocardial infarction: a multicentre randomized controlled trial	60'000
	FF22100	Prof. Dr. med. Petra Stute	Inselspital, Universitätsspital Bern	Influence of Iyengar yoga on the bio-functional age of postmenopausal women	15'000
	FF22021	Dr. med. Carolina Balbi	Istituto Cardiocentro Ticino	The effect of cardiac rehabilitation on circulating extracellular vesicles	50'000
Valvular heart disease	FF22078	Dr. Alexander Akhmedov	Universität Zürich	Calcific Aortic Valve Disease: Moving from Spatially Resolved Transcriptomics to Novel Therapeutic Targets	90'000
	FF22061	Dr. med. Dominik Benz	Universitätsspital Zürich	Evaluation of right ventricular function for prediction of outcomes and timing of intervention in higher-grade tricuspid regurgitation: A multicenter prospective cohort study	50'000
Vascular biology / Vascular sclerosis	FF22131	Dr. Mary Gonzalez	Universitätsspital Zürich	Elucidating TGR5-dependent signaling in the maintenance of the endothelial quiescent through the mitochondrial homeostasis	50'000
	FF22098	Prof. Dr. med. Thomas F. Lüscher	University of Zurich	The longevity protein SIRT1 suppresses the expression and activity of the renal sodium-glucose cotransporter-2: implications for diabetes and heart failure	50'000
Other	FF22104	Prof. Dr. med. Lorenz Risch	UFL - Private Universität im Fürstentum Liechtenstein	The influence of foehn winds on cardiovascular parameters in the general population	50'000
	FF22082	Dr. Christian Puelacher	Universitätsspital Basel	Implementation of a clinical screening and response system for the early detection of cardiac complications after noncardiac surgery: feasibility and health economic impact (Implement-PMI)	50'000

*Subtotal Cardiovascular Grants*

**1'775'000**

Neurovascular	FF22055	Dr. med. David Julian Seiffge	Inselspital, Universitätsspital Bern	Maximal medical treatment of intracerebral haemorrhage pilot trial – MAX-ICH pilot trial	86'300
	FF22099	Prof. Dr. med. Patrik Michel	CHUV, Centre hospitalier universitaire vaudois	Development and external validation of the posterior circulation ASTRAL prognostic score	99'933
	FF22064	PD Dr. med. Carlo Cereda	Ospedale Regionale di Lugano	Extracellular Vesicle Surface Markers In Acute Cerebrovascular Syndromes. ElViS –ACS study	80'000
	FF22022	PD Dr. med. Emmanuel Carrera	Hôpitaux Universitaires Genève	Resilience in Brain Networks after Stroke	60'000
	FF22014	Dr. med. Stefano Ministrini	University of Zurich	Endothelial JCAD worsens outcome after acute ischemic stroke: a translational study	83'235
	FF22011	Prof. Dr. Brenda Kwak	Université de Genève	Biomarkers of intracranial aneurysm wall stability for accurate and personalized medicine	65'532

*Subtotal Neurovascular Grants*

**475'000**

**Total Research Grants**

**2'250'000**