



**Projets de recherche financés  
selon le domaine, requérant, titre du projet**  
(requéri et attribué en 2013 versé en 2014)

**Montant  
en CHF**

**Projets dans le domaine „Athérosclérose“**

**857'500**

<b>Prof. Nicolas Diehm, Universitätsspital Bern</b> Patient-specific finite element model of the femoro-popliteal arterial tract	29'000
<b>Dr. Stefan Freigang, Universität Bern</b> Mitochondrial uncoupling as a novel pathway of lipid-induced sterile vascular inflammation and atherosclerosis	70'000
<b>Dr. Roberto Gianni Barrera, Universitätsspital Basel</b> Targeting Notch4 to normalize VEGF-induced angiogenesis in skeletal muscle	60'000
<b>Dr. Giral Arnal Hector, Universitätsspital Zürich</b> microRNAs as targets for prevention and treatment of atherosclerotic vascular disease	60'000
<b>Dr. Roland Klingenberg, Universitätsspital Zürich</b> Controlled Level EVERolimus in Acute Coronary Syndromes –CLEVER-ACS	45'000
<b>Prof. Thomas Alexander Lutz, Universität Zürich</b> The role of Glucagon-Like Peptide-1 in the immediate improvement of endothelial and HDL function after Roux-en-Y gastric bypass prior to body weight loss in obese human and rodents	45'000
<b>PD Dr. Brian Martin, Universität Zürich</b> Development of an intervention and study protocol for improved cardiovascular health after cardiac rehabilitation through physical activity counselling (PAPRICA Cardio)	70'000
<b>Dr. Christian Matter, Universitätsspital Zürich</b> Pharmacological SIRT1 activation lowers plasma cholesterol and reduces atherosclerosis by reducing hepatic PCSK9 release and thus, increasing hepatic LDL-R expression	75'000
<b>Dr. Xiu-Fen Ming, Universität Fribourg</b> Role of Arginase-II in Inflammatory Crosstalk between Pre-adipocytes and Endothelial Cells in Obesity and Aging	70'000
<b>Dr. Maria Philippova, Universitätsspital Basel</b> Oxidized phospholipids and natural anti-oxidation defense as biomarkers of early atherosclerosis	60'000
<b>Dr. Lukas Trachsel (Dr. Jean-Paul Schmid), Universitätsspital Bern</b> High Intensity Training & Early Adverse Remodelling after Left ventricular myocardial infarction: Swiss multicenter HIT-EARLY Study”	50'000
<b>Dr. Kristina Schoonjans, Ecole Polytechnique Fédérale, Lausanne</b> Mechanistic dissection of the role of LXR-1 in atherosclerosis	65'000
<b>Dr. Isabella Sudano, Universitätsspital Zürich</b> Sympathetic Activation and Reduced Endothelial Function as Cardiac Risk Factors in Patients with Takotsubo Syndrome	73'500
<b>Prof. Arnold von Eckardstein, Universitätsspital Zürich</b> Biomarkers of Atherosclerotic Vascular Disease	85'000

**Projets dans le domaine „Insuffisance cardiaque“**

**513'000**

<b>Prof. Urs Eriksson, Universität Zürich</b> The effect of lidocaine on MMP9 release and ventricular remodelling following experimental acute myocardial infarction	75'000
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<b>Dr. Andreas Flammer, Universitätsspital Zürich</b> Cocoa flavanols in patients with Heart Failure and preserved ejection fraction	<b>40'000</b>
<b>Dr. Gabriela Kania, Universitätsspital Zürich</b> The role of inflammatory myeloid cell compartment in myocardial fibrogenesis and pathological remodelling in systemic sclerosis	<b>70'000</b>
<b>PD Dr. Gabriela Kuster Pfister, Universitätsspital Basel</b> Impact of Flt3-disruption on cardiac progenitor cell homeostasis and function: Implications for cancer therapy-related cardiotoxicity	<b>60'000</b>
<b>Dr. Sarah Longnus, Universitätsspital Bern</b> Improving cardiac tolerance to ischemia and reperfusion with microRNA	<b>65'000</b>
<b>Dr. Anna Marsano, Universitätsspital Basel</b> Engineering of a cardiac patch with an intrinsic vasculogenic potential (part 2)	<b>50'000</b>
<b>Dr. Guiseppina Milano, Universitätsspital Lausanne</b> Thymosin $\beta$ 4 and hypoxic cardiopulmonary remodeling	<b>75'000</b>
<b>Dr. Patrick Yerly, Centre hospitalier universitaire vaudois, Lausanne</b> Characterization of right ventricular afterload and pulmonary vascular disease in pulmonary hypertension associated with left heart disease and determination of the effect of vasoreactivity testing with nitroprusside	<b>33'000</b>
<b>Dr. Christian Zuppinger, Universitätsspital Bern</b> Development of a scaffold-free 3D culture model of iPSC-derived human cardiomyocytes and other cardiac cells types for cardiotoxicity testing and studies on cell-cell interactions	<b>45'000</b>
<b>Projets dans le domaine „troubles du rythme cardiaque”</b>	<b>84'000</b>
<b>Dr. Laurent Roten, Universitätsspital Bern</b> Screening for silent atrial fibrillation in patients with prolonged atrial electromechanical interval and high thromboembolic risk; development and validation of a probability score to diagnose atrial fibrillation with extensive screening	<b>60'000</b>
<b>Dr. Beat Schär, Universitätsspital Basel</b> Risk reassessment in individual patients with an implantable cardioverter defibrillator at the time of first battery depletion	<b>24'000</b>
<b>Projets d'autres domaines des maladies cardiovasculaires</b>	<b>499'000</b>
<b>Dr. Angelo Auricchio, Cardiocentro Ticino, Lugano</b> ECG-imaging of left ventricular electrical remodeling (Le projet ne sera pas réalisé – la somme prévue sera en conséquence versée au fonds de réserve)	<b>45'000</b>
<b>Dr. Przemyslaw Blyszczuk, Physiologisches Institut, Zürich</b> Heart-specific autoimmunity in inflammatory and in ischemic heart disorders	<b>30'000</b>
<b>Dr. Nicolas Brugger, Universitätsspital Bern</b> Mitral Regurgitation Evaluation by 3-D Color Doppler Echocardiography and Cardiac Magnetic Resonance as the Reference Method with in vitro validation of the technique	<b>72'000</b>
<b>Dr. Michael Gessat, Universitätsspital Zürich</b> In-vivo Measurement of Aortic Annulus Mechanics – Validation of image based elasticity estimation with direct measurements	<b>60'000</b>
<b>Prof. Roger Hullin, Centre hospitalier universitaire vaudois, Lausanne</b> Motion suppressed CE-MRI and 3T DynEq cardiac MRI for detection of transplant vasculopathy	<b>57'000</b>
<b>Dr. Christophe Montessuit, Université de Genève</b> Free and lipoprotein-derived fatty acids: how they impair myocardial glucose transport	<b>45'000</b>

<b>Dr. Francesco Santini, Universitätsspital Basel</b>	<b>70'000</b>
Development and validation of non-contrast-enhanced cardiac viability magnetic resonance imaging with variable echo time (vTE)	
<b>Dr. Andreas Schönenberger, Universitätsspital Bern</b>	<b>40'000</b>
Prognosis of patients with angina equivalent symptoms but no coronary artery disease: long-term follow-up of the Heart Quest cohort study	
<b>Dr. Simon Sündermann, Universitätsspital Zürich</b>	<b>50'000</b>
Analysis of the influence of peri-prosthetic anatomical structures at the aortic valve prosthesis after transcatheter aortic valve implantation (TAVI).	
<b>Dr. Peter Wenaweser, Universitätsspital Bern</b>	<b>30'000</b>
SWISS TAVI Registry	
<b>Projets dans le domaine „Attaque cérébrale“</b>	<b>650'828</b>
<b>Prof. Jürgen Beck, Universitätsspital Bern</b>	<b>100'000</b>
Swiss study of initial decompressive craniectomy versus best medical treatment of spontaneous supratentorial intracerebral hemorrhage (SWITCH): a randomized controlled trial	
<b>Prof. Britta Engelhardt, Universität Bern</b>	<b>80'000</b>
Molecular mechanisms mediating neutrophil and monocyte interaction with the blood-brain barrier after ischemic stroke	
<b>Prof. Stefan Engelter, Universitätsspital Basel &amp; Felix-Platter Spital Basel</b>	<b>90'000</b>
Transcranial Holter recordings to monitor treatment effects in patients with cervical artery dissection treated with either aspirin or anticoagulation - A substudy to the randomized controlled trial "Treatment in cervical artery dissection"	
<b>Dr. Mirjam Heldner, Universitätsspital Bern</b>	<b>50'000</b>
Design of a new clinical score (Bernese Central Vessel Occlusion Score) in predicting central arterial vessel occlusion in anterior and posterior circulation stroke	
<b>Prof. Philippe Lyrer, Universitätsspital Basel</b>	<b>30'000</b>
Gene expression analysis in sporadic and hereditary cerebral small vessel disease	
<b>Prof. Heinrich Mattle, Universitätsspital Bern</b>	<b>94'828</b>
The brain heart interaction in acute stroke	
<b>PD Dr. Patrik Michel, Centre hospitalier universitaire vaudois, Lausanne</b>	<b>70'000</b>
Individualizing treatment decisions in Acute Ischemic Stroke by developing predictive models of Arterial Revascularization	
<b>Dr. David Julian Seiffge, Universitätsspital Basel</b>	<b>76'000</b>
The Swiss Registry of New Anticoagulants in Stroke patients- a national audit addressing a) thrombolysis in patients treated with new anticoagulants and b) new anticoagulants and intracerebral hemorrhage	
<b>PD Dr. Roman Sztajzel, Hôpitaux Universitaires de Genève</b>	<b>60'000</b>
What ultrasound characteristics predict high uptake on 18 FDG PET-CT and/or intraplaque hemorrhage on black-blood T1-weighted MRI?	