

## FWF - Projects

### 33510 HIV-C escapes Restriction not Sensing in DCs

project lead: WILFLINGSEDER Doris  
university / research place: Department of Hygiene, Microbiology and Public Health, Medical University of Innsbruck, Schöpfstr. 42, 6020 Innsbruck

decision board: 09.03.2020

lifetime: approved

science discipline:

65% 301 Medical-Theoretical Sciences, Pharmacy

35% 106 Biology

keywords HIV-1, Dendritische Zellen, Restriktionsmechanismen, Immunologie, Therapie

### 33333 Lipid peroxidation as driver of cardiolipin remodeling

project lead: KELLER Markus  
university / research place: Institute of Human Genetics, Medical University of Innsbruck, Peter-Mayr-Str. 1, 6020 Innsbruck, Tyrol, Austria

decision board: 09.03.2020

lifetime: approved

science disciplines:

75% 301 Medical-Theoretical Sciences, Pharmacy

25% 102 Computer Sciences

keywords Mitochondrial diseases, Mitochondrial membrane, Lipid peroxidation, Tafazzin, Lipidomics, Cardiolipin homeostasis

### 33270 Role of calcium channels in presynaptic differentiation

project lead: FLUCHER Bernhard E.  
university / research place: Department of Physiology and Medical Physics, Medical University of Innsbruck, Schöpfstraße 41, 6020 Innsbruck, Tyrol, Austria

decision board: 13.09.2019

lifetime: 01.11.2019 - 31.10.2022

science discipline:

60% 106 Biology

40% 301 Medical-Theoretical Sciences, Pharmacy

keywords Neuromuscular junction, Voltage-gated calcium channels, Synapse formation, Ca<sup>2+</sup> channel, Cav1.1

### 33249 The effect of human embryo spent media on dendritic cells

project lead: TOLLINGER Susanne  
university / research place: University Hospital of Gynaecological Endocrinology and Reproductive Medicine, Medical University of Innsbruck, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 09.03.2020

lifetime: approved

science discipline:

60% 302 Clinical Medicine

40% 301 Medical-Theoretical Sciences, Pharmacy

keywords reproductive immunology, embryo implantation, recurrent spontaneous abortion, recurrent implantation failure, maternal tolerance, dendritic cells

### 33225 Dendritic complexity regulation by phospho-S1928 of CaV1.2

project lead: DI BIASE Valentina  
university / research place: Institute of Molecular and Cellular Pharmacology, Medical University of Innsbruck, Peter-Mayr-Str. 1, 6020 Innsbruck, Tyrol, Austria

decision board: 25.11.2019

lifetime: 13.01.2020 – 12.01.2023

science discipline:

55% 301 Medical-Theoretical Sciences, Pharmacy

45% 106 Biology

keywords Serine 1928, CaV1.2, L-VGCCs, morphology, neuron, dendritic complexity

### 33222 Designer Receptor Gene Therapy constructed for Parkinson's

project lead: LIEB Andreas  
university / research place: Institute of Pharmacology, Medical University of Innsbruck, Peter-Mayr-Str. 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 09.03.2020

lifetime: approved

science discipline:

60% 304 Medical Biotechnology

30% 301 Medical-Theoretical Sciences, Pharmacy

10% 102 Computer Sciences

keywords Neuroscience, Gene Therapy, Designer Receptor, Parkinson's Disease

### 33070 Epithelial autophagy as rheostat of intestinal inflammation

project lead: ADOLPH Timon E.  
university / research place: University Hospital for Internal Medicine, Medical University of Innsbruck, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 25.11.2019

lifetime: 01.01.2020 – 31.12.2022

science discipline:

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 302 Clinical Medicine

keywords Lipid peroxidation, Chronisch entzündliche Darmerkrankungen, Glutathione peroxidase 4, Metabole Inflammation, ATG16L1-medierte Autophagie

### 33062 The iron storage protein ferritin in bacterial infection

project lead: NAIRZ Manfred  
university / research place: University Hospital for Internal Medicine, Medical University of Innsbruck, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 30.09.2019

lifetime: 01.01.2020 – 31.12.2023

science discipline:

45% 303 Health Sciences

40% 301 Medical-Theoretical Sciences, Pharmacy

15% 302 Clinical Medicine

keywords infection, bacteremia, iron, macrophage, sepsis, Ferritin

### 33027 SATB2 regulation of neuronal nuclear architecture

project lead: APOSTOLOVA Galina  
university / research place: Joint Institute for Neuroscience, Medical University of Innsbruck, Innrain 66, 6020 Innsbruck, Tyrol, Austria

decision board: 09.03.2020

lifetime: approved

science discipline:

80% 106 Biology

10% 102 Computer Sciences

10% 301 Medical-Theoretical Sciences, Pharmacy

keywords

activity-dependent transcription, cortical neuron, HiC, spatial genome organization, chromatin, nuclear lamina

### 32850 SATB2-dependent mechanisms in human cognitive ability

project lead: DECHANT Georg  
university / research place: Joint Institute for Neuroscience, Medical University of Innsbruck,  
Innrain 66, 6020 Innsbruck, Tyrol, Austria

decision board: 30.09.2019

lifetime: 15.01.2020 – 14.01.2023

science discipline:

70% 106 Biology

20% 301 Medical-Theoretical Sciences, Pharmacy

10% 302 Clinical Medicine

keywords cognition, gene regulation, chromatin architecture, disease model, neocortex

### 32821 Toll-like receptor 3 mediates Calcific Aortic Valve Disease

project lead: GOLLMANN-TEPEKÖYLÜ Can  
university / research place: Department of Cardiac Surgery, Medical University of Innsbruck,  
Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 24.06.2019

lifetime: 01.09.2019 - 31.08.2022

science discipline:

67% 302 Clinical Medicine

33% 301 Medical-Theoretical Sciences, Pharmacy

keywords cardiac surgery, valvular heart disease, calcification, toll-like receptor 3, calcific aortic valve disease

### 32755 miRNA:mRNA interactions at the level of a single target gene

project lead: LABI Verena  
university / research place: Institute of Developmental Immunology, Biocenter Innsbruck, Medical  
University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 25.11.2019

lifetime: 01.03.2020 – 29.02.2024

science discipline:

60% 301 Medical-Theoretical Sciences, Pharmacy

40% 106 Biology

keywords BIM, apoptosis, miR-17~92, B cells

### 32699 Epitope specificity of MOG antibodies

project lead: REINDL Markus  
university / research place: University Hospital for Neurology, Medical University of Innsbruck,  
Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 24.06.2019

lifetime: 01.09.2019 - 31.08.2022

science discipline:

80% 301 Medical-Theoretical Sciences, Pharmacy  
10% 302 Clinical Medicine  
10% 106 Biology  
keywords Epitope specificity, MOG, autoantibody, Antibody

### 32612 Mitochondrial-like tRNAs as splicing regulators

project lead: HÜTTENHOFER Alexander  
university / research place: Division of Genomics & RNomics, Biocenter Innsbruck, Medical University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 13.05.2019

lifetime: 01.10.2019 - 30.09.2023

science discipline:

70% 106 Biology

30% 102 Computer Sciences

keywords Mitochondrial tRNAs, alternative splicing, splicing enhancer, intronic

### 32608 Structure-function analyses of the BORC

project lead: HUBER Lukas A.  
university / research place: Biocenter Innsbruck, Medical University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 13.05.2019

lifetime: 01.07.2019 - 30.06.2022

science discipline:

100% 106 Biology

keywords Arl8b, lysosome, late endosome, BORC, LAMTOR, endosomal positioning and biogenesis

### 32558 Spreading of Alzheimer pathology in organotypic brain slices

project lead: HUMPEL Christian  
university / research place: University Hospital for Psychiatry, Medical University of Innsbruck, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 30.09.2019

lifetime: 01.04.2020 – 31.03.2024

science discipline:

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords spreading, inflammation, beta-amyloid, organotypic brain slice, tau, Alzheimer

### 32488 Repeat cIMT measurement for predicting cardiovascular events

project lead: WILLEIT Peter  
university / research place: Department of Neurology & Neurosurgery, Medical University of Innsbruck, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 30.09.2019

lifetime: 01.12.2019 – 31.05.2023

science discipline:

60% 303 Health Sciences

20% 302 Clinical Medicine

20% 101 Mathematics

keywords Prospective studies, Atherosclerosis, Big data, Epidemiology, Prevention, Meta-analysis

### 32329 Intrinsic azole resistance in mucormycetes

project lead: LACKNER Michaela  
university / research place: Department of Hygiene, Microbiology and Social Medicine, Innsbruck Medical University, Schöpfstr. 41, 6020 Innsbruck, Tyrol, Austria

decision board: 11.03.2019

lifetime: 01.07.2019 – 30.06.2023

science discipline:

50% 104 Chemistry

50% 106 Biology

keywords mucormycetes, mucormycosis, cyp51, lanosterol 14-alpha demethylase, azole, primary resistance

### 32193 Subcellular Localization of Toxin production

project lead: OFFTERDINGER Martin (national research partner)  
university / research place: Institute of Neurobiochemistry, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 11.03.2019

lifetime: 01.10.2019 – 30.09.2022

science discipline:

80% 106 Biology

20% 104 Chemistry

keywords harmful algal bloom, anabaenopeptins, cyanotoxins, peptide labeling, click chemistry, microcystins

### 32161 The mechanism of post-ER organelle associated degradation

project lead: TEIS David  
university / research place: Institute of Cell Biology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 11.03.2019

lifetime: 01.07.2019 – 30.06.2022

science discipline:

100% 106 Biology

keywords

degradation, membrane proteins, organelles, ERAD, ESCRT, ubiquitin

### 32146 Deep brain vision: 3D adaptive 2-photon microscopy

project lead: JESACHER Alexander  
university / research place: Department of Physiology and Medical Physics, Medical University of Innsbruck, Müllerstraße 44, 6020 Innsbruck, Tyrol, Austria

decision board: 13.05.2019

lifetime: 04.11.2019 – 03.11.2023

science discipline:

80% 103 Physics, Astronomy

20% 301 Medical-Theoretical Sciences, Pharmacy

keywords scattering compensation, remote focusing, brain imaging, Neurophysiology, adaptive optics, 2-photon fluorescence microscopy

### 31777 The role of hippocampal interneurons in epileptogenesis

project lead: DREXEL Meinrad  
university / research place: Institute of Pharmacology, Innsbruck Medical University, Peter-Mayr-Str. 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 26.11.2018

lifetime: 01.06.2019 – 30.11.2024

science discipline:

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 106 Biology

keywords

interneurons, hippocampus, epilepsy, epileptogenesis, optogenetics, basket cells

### 31662 Mitochondria & peroxisomes: new targets in AD

Project lead: MORENO-DUBRAC Sandrine  
University / research place: University Hospital for Dermatology, Venerology and Allergology,  
Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol Austria

decision board: 08.10.2018

lifetime: 01.11.2018 - 31.10.2021

science discipline

55% 302 Clinical Medicine

35% 106 Biology

10% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Mitochondria, Atopic Dermatitis, Peroxisomes, Barr

### 31458 Studying an Lp(a) mutation in human RNA and liver organoids

project lead: COASSIN Stefan  
university / research place: Institute of Genetic Epidemiology, Innsbruck Medical University,  
Schöpfstr. 41, 6020 Innsbruck, Tyrol, Austria

decision board: 25.06.2018

lifetime: 01.11.2018 – 30.04.2022

science discipline

60% 301 Medical-Theoretical Sciences, Pharmacy

40% 106 Biology

keywords: Lp(a) mutation, Lp(a), apo(a) isoforms, Lipoprotein(a), Lipoproteins

### 31383 The nuclear orphan receptor NR2F6 as cancer immune checkpoint

project lead: BAIER Gottfried  
university / research place: Division of Cell Genetics, Innsbruck Medical University, Schöpfstr. 41,  
6020 Innsbruck, Tyrol, Austria

decision board: 07.05.2018

lifetime: 01.09.2018 – 31.08.2022

science discipline

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 302 Clinical Medicine

keywords innovative immune-based cancer therapy concept, alternative immune checkpoint, CD4+ and CD8+ CTL effector T cells, Immunooncology, transcriptional repressor, orphan nuclear receptor NR2F6



### 31377 Chromatin Regulation by CHD1 in Metabolism and Aging

project lead: LUSSER Alexandra  
university / research place: Institute of Molecular Biology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 05.03.2018  
lifetime: 01.05.2018 – 30.04.2022  
science discipline  
100% 106 Biology  
keywords Drosophila melanogaster, ATP-dependent chromatin remodelling, aging, lifespan, metabolism, insulin/TOR pathways

### 31122 Stromal Nox4 -derived ROS signaling in prostate cancer

project lead: SAMPSON Natalie  
university / research place: University Hospital for Urology, Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria  
decision board: 24.07.2018  
lifetime: 03.08.2018 – 02.08.2023  
science discipline  
100% 301 Medical-Theoretical Sciences, Pharmacy  
keywords: Nox4, reactive oxygen species, cancer-associated fibroblast, stroma

### 31093 Novel 5-Flucytosine Based Antifungal Therapeutics

project lead: GSALLER Fabio  
university / research place: Institute of Molecular Biology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 05.03.2018  
lifetime: 01.10.2018 – 31.10.2021  
science discipline  
100% 106 Biology  
keywords 5-flucytosine, antifungal resistance, aspergillosis, Aspergillus fumigatus, gene regulation, drug development

### 31085 Preclinical evaluation of PKN1 as stroke-target

project lead: BAIER-BITTERLICH Gabriele  
university / research place: Institute of Neurobiochemistry, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 05.03.2018  
lifetime: 01.10.2018 – 30.09.2023  
science discipline  
100% 301 Medical-Theoretical Sciences, Pharmacy  
keywords Protein Kinase N, Stroke, Neuroprotection

### 30924 Modified Siderophores for "Theranostics" of Aspergillosis

project lead: DECRISTOFORO Clemens  
university / research place: University Hospital for Nuclear Medicine, Innsbruck Medical University,  
Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 02.10.2017

lifetime: 01.02.2018 – 31.01.2022

science discipline

50% 302 Clinical Medicine

35% 303 Health Sciences

15% 301 Medical-Theoretical Sciences, Pharmacy

keywords Siderophores, Theranostics, Aspergillus fumigatus, Gallium-68, PET, MirB

### 30809 DynChomiR

project lead: KUMMER Kai  
university / research place: Institute of Physiology, Innsbruck Medical University, Schöpfstr. 41,  
6020 Innsbruck, Tyrol, Austria

decision board: 27.11.2017

lifetime: 01.02.2018 – 31.01.2021

science discipline

70% 302 Clinical Medicine

30% 301 Medical-Theoretical Sciences, Pharmacy

keywords neuropathic pain, medial prefrontal cortex (mPFC), pain modulation, acetylcholine, microRNA

### 30800 AGMO: Impact on adipocyte differentiation

project lead: WATSCHINGER Katrin  
university / research place: Institute of Biological Chemistry, Biocenter Innsbruck, Innsbruck Medical  
University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 02.10.2017

lifetime: 01.12.2017 – 30.11.2021

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords alkylglycerol monooxygenase, adipocytes, cell differentiation, ether lipids, cellular signaling

### 30779 Modulation of inflammation in epilepsy

project lead: DREXEL Meinrad  
university / research place: Institute of Pharmacology, Innsbruck Medical University,  
Peter-Mayr-Str. 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 22.01.2018

lifetime: 01.06.2018 – 30.11.2022

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Epilepsy, epileptogenesis, antiinflammatory drugs, toll-like receptor, kainic acid, Interleukin-1

### 30592 Targeting the Kappa Opioid System to Treat TLE

project lead: SCHWARZER Christoph  
university / research place: Institute of Pharmacology, Innsbruck Medical University,  
Peter-Mayr-Str. 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 21.09.2017

lifetime: 15.03.2018 – 14.03.2023

science discipline:

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Temporal lobe epilepsy, Kappa Opioid Receptor, Gene Therapy, recombinant AAV, DREADD

### 30486 Is there a code behind the code?

project lead: ERLACHER Matthias  
university / research place: Division of Genomics and RNomics, Biocenter Innsbruck, Innsbruck  
Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 21.09.2017

lifetime: 01.11.2017 – 31.10.2020

science discipline

100% 106 Biology

keywords: decoding, ribosome, protein synthesis, mRNA modifications

### 30430 Modulation of the Kappa Opioid System in TLE

project lead: SCHWARZER Christoph  
university / research place: Institute of Pharmacology, Innsbruck Medical University,  
Peter-Mayr-Str. 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 04.07.2017

lifetime: 07.08.2017 – 06.08.2022

science discipline

90% 301 Medical-Theoretical Sciences, Pharmacy

10% 106 Biology

keywords: temporal lobe epilepsy, Kappa opioid receptor, biased agonists, diphenethylamines

### 30402 Regulation of voltage-sensitivity of CaV1 calcium channels

project lead: FLUCHER Bernhard E.  
university / research place: Institute of Physiology, Innsbruck Medical University, Schöpfstr. 41,  
6020 Innsbruck, Tyrol, Austria

decision board: 08.05.2017

lifetime: 01.01.2018 – 31.12.2020

science discipline

50% 106 Biology

50% 301 Medical-Theoretical Sciences, Pharmacy

keywords: voltage-dependent calcium channel, Ca<sup>2+</sup> channel, C

### 30324 Function of the A2A receptor-mediated IL-10 regulation

project lead: BAIER Gottfried  
university / research place: Division of Cell Genetics, Innsbruck Medical University, Schöpfstr. 41,  
6020 Innsbruck, Tyrol, Austria

decision board: 08.05.2017

lifetime: 01.07.2017 – 30.06.2021

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Inflammation and autoimmunity, adenosine A2A receptor (A2AR), IL-10 transcriptional regulation.

### 30263 Dynamics of the ESCRT machinery during MVB biogenesis

project lead: TEIS Davis  
university / research place: Institute of Cell Biology, Biocenter Innsbruck, Innsbruck Medical  
University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 06.03.2017

lifetime: 01.12.2017 - 30.11.2020

science discipline

100% 106 Biology

keywords: endosomes, ESCRT, multivesicular bodies, organelle biogenesis

### 30214 3D nanoscopy of the immunological synapse

project lead: JESACHER Alexander  
university / research place: Institute of Biomedical Physics, Innsbruck Medical University,  
Müllerstr. 44, 6020 Innsbruck, Tyrol, Austria

decision board: 06.03.2017

lifetime: 01.08.2017 – 31.07.2021

science discipline

40% 103 Physics, Astronomy

30% 301 Medical-Theoretical Sciences, Pharmacy

30% 106 Biology

keywords: microscopy, localization microscopy, immunology, single molecule tracking

### 30196 Unraveling miR-15 function in health and disease

project lead: HERZOG Sebastian  
university / research place: Institute of Developmental Immunology, Biocenter Innsbruck,  
Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol,  
Austria

decision board: 06.03.2017

lifetime: 01.09.2017 – 28.02.2021

science discipline

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 106 Biology

keywords: hematopoiesis, immunity, microRNA, lymphocytes, cancer

### **30194 Molecular regulation of the oncogenic miR-17-92 cluster**

project lead: HERZOG Sebastian

university / research place: Institute of Developmental Immunology, Biocenter Innsbruck,  
Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol,  
Austria

decision board: 06.03.2017

lifetime: 01.04.2017 – 31.03.2021

science discipline

90% 106 Biology

10% 301 Medical-Theoretical Sciences, Pharmacy

keywords: miR-15 family, miR-17-92 cluster, CRISPR/Cas9, miRNA regulation, loss-of-function screen

### **29952 Role of neurokinin B-expressing neurons in the bed nucleus of the stria terminalis**

project lead: TASAN Ramon Osman

university / research place: Institute of Pharmacology, Innsbruck Medical University,  
Peter-Mayr-Straße 1a, 6020 Innsbruck, Tyrol, Austria

decision board: 28.11.2016

lifetime: 01.07.2017 – 30.06.2021

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Neuropeptides, Neurokinin B, Fear conditioning, Amygdala, BNST, Neuronal circuitries

### **29936 Direct measurement of optical torque**

project lead: THALHAMMER Gregor

university / research place: Institute of Biomedical Physics, Innsbruck Medical University,  
Müllerstrasse 44, 6020 Innsbruck, Tyrol, Austria

decision board: 08.05.2017

lifetime: 01.12.2017 – 30.11.2021

science discipline

90% 103 Physics, Astronomy

10% 106 Biology

keywords: optical tweezers, force measurement, torque measurement

### **29919 Targeting of skin dendritic cells to improve vaccination**

project lead: ROMANI Nikolaus  
university / research place: University Hospital for Dermatology, Venerology and Allergology,  
Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol Austria

decision board: 06.03.2017

lifetime: 01.05.2017 – 30.04.2021

science discipline

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 302 Clinical Medicine

keywords: dendritic cells, Langerhans cells, skin, immunotherapy, vaccination, antigen targeting

### **29671 Extremophiles - an innovative source for bioactive compounds**

project lead: GOSTNER Johanna (national research partner)  
university / research place: Institute of Medical Biochemistry, Biocenter Innsbruck, Innsbruck  
Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 03.10.2016

lifetime: 01.03.2017 – 31.08.2020

science discipline

60% 106 Biology

20% 301 Medical-Theoretical Sciences, Pharmacy

20% 104 Chemistry

keywords: Extremophiles, Natural products analysis, Bioactivity, Phytochemistry, Skin

### **29583 Mechanism of nutrient dependent plasma membrane remodeling**

project lead: TEIS David  
university / research place: Institute of Cell Biology, Biocenter Innsbruck, Innsbruck Medical  
University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 27.06.2016

lifetime: 01.12.2016 – 30.11.2020

science discipline

100% 106 Biology

keywords: endocytosis, ubiquitin, signaling, metabolism

### **P29551 Closing the crucial genetic gap in plasmalogen biosynthesis**

project lead: WERNER Ernst R.  
university / research place: Institute of Biological Chemistry, Biocenter, Innsbruck Medical  
University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 27.06.2016

lifetime: 01.08.2016 – 31.01.2020

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Plasmalogen desaturase, Orphan enzyme, Plasmalogen, Ether lipid

### **29514 Regularization Techniques in Learning with Big Data**

project lead: PEREVERZYEV Sergiy  
university / research place: University Hospital for Neuroradiology, Innsbruck Medical University,  
Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 03.10.2016

lifetime: 28.01.2017 – 27.01.2022

science discipline

100% 101 Mathematics

keywords regularized learning algorithm, big data, Nyström subsampling, distributed learning,  
regularized aggregation, semi-supervised learning

### **29499 Cell death control on extended mitotic arrest**

project lead: VILLUNGER Andreas  
university / research place: Institute of Developmental Immunology, Biocenter Innsbruck,  
Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol  
Austria

decision board: 27.06.2016

lifetime: 01.12.2016 – 31.10.2021

science discipline

90% 301 Medical-Theoretical Sciences, Pharmacy

10% 106 Biology

keywords: Cell death, Tumor therapy, Bcl2 family, Breast cancer, Mitosis, Ubiquitin

### **29379 Epithelial GPX4 in the control of intestinal homeostasis**

project lead: ADOLPH Timon  
university / research place: University Hospital for Internal Medicine I, Innsbruck Medical University  
Anichstrasse 35, 6020 Innsbruck, Tyrol, Austria

decision board: 09.05.2016

lifetime: 01.08.2016 – 30.09.2020

science discipline

60% 301 Medical-Theoretical Sciences, Pharmacy

40% 302 Clinical Medicine

keywords: mucosal immunology, intestinal epithelial cell, glutathione peroxidase 4, intestinal  
inflammation

### **28975 Structure of the Neurofibromatosis Type 1 Protein**

project lead: SCHEFFZEK Klaus  
university / research place: Institute of Biological Chemistry, Biocenter, Innsbruck, Innsbruck  
Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 30.11.2015

lifetime: 01.03.2016 - 28.02.2021

science discipline:

40% 105 Geosciences

30% 103 Physics, Astronomy

15% 301 Medical-Theoretical Sciences, Pharmacy

15% 104 Chemistry

keywords: Structural Biology, Biomolecular Crystallography, Signal Transduction, Cancer Development, Rare Diseases, Cryo Electron Microscopy

### 28923 Novel role of the ectonucleotidase CD39

project lead: THURNHER Martin

university / research place: University Hospital for Urology, Innsbruck Medical University,  
Anichstrasse 35, 6020 Innsbruck, Tirol, Österreich

decision board: 29.02.2016

lifetime: 01.04.2016 - 31.05.2020

science discipline:

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: CD39, gammadelta T cells, isoprenoids, mevalonate metabolism, purinergic signaling, innate immunity

### 28909 Sprouty2 and receptor tyrosine kinase trafficking

project lead: HAUSOTT Barbara

university / research place: Institute of Neuroanatomy, Innsbruck Medical University,  
Müllerstrasse 59, 6020 Innsbruck, Tyrol, Austria

decision board: 29.02.2016

lifetime: 01.07.2016 - 30.06.2021

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Sprouty2, Fibroblast growth factor, Epidermal growth factor, Nerve growth factor, Sensory neurons, Glioma cells

### 28817 Smooth muscle specific role of SDF-1 in cell recruitment and cardiac repair after myocardial ischemia

project lead: ZARUBA Marc Michael

university / research place: University Hospital for Internal Medicine III, Innsbruck Medical  
University Anichstrasse 35, 6020 Innsbruck, Tyrol, Austria

decision board: 30.11.2015

lifetime: 01.02.2016 – 31.01.2021

science discipline

100% 302 Clinical Medicine

keywords: cardiac regeneration, SDF-1/CXCR4, stem cell homing, knock-out, myocardial ischemia



### **28769 Alkylglycerol Monooxygenase in Dictyostelium discoideum**

project lead: WERNER Ernst R.  
university / research place: Institute of Biological Chemistry, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 05.10.2015

lifetime: 01.12.2015 – 31.05.2020

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Alkylglycerol Monooxygenase, Dictyostelium Discoideum, Ether Lipid, Tetrahydrobiopterin

### **28302 TAM iron metabolism impacts on breast cancer biology**

project lead: THEURL Igor Maximilian  
university / research place: University Hospital for Internal Medicine VI, Innsbruck Medical University, Anichstrasse 35, 6020 Innsbruck, Tyrol, Austria

decision board: 22.06.2015

lifetime: 01.09.2015 – 31.08.2020

science discipline

50% 302 Clinical Medicine

50% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Tumor associated macrophage, iron, immunity, ferroportin, monocyte, breast cancer

### **27844 Enhanced CCK2R targeting for theragnostic use in nuclear medicine**

project lead: VON GUGGENBERG ZU RIEDHOFEN Elisabeth  
university / research place: University Hospital for Nuclear Medicine, Innsbruck Medical University, Anichstrasse 35, 6020 Innsbruck, Tyrol, Austria

decision board: 26.05.2015

lifetime: 01.09.2015 – 31.08.2020

science discipline

75% 301 Medical-Theoretical Sciences, Pharmacy

25% 104 Chemistry

keywords: peptides, theragnostics, radionuclides, cholecystokinin receptors, receptor targeting, medullary thyroid carcinoma

### **27543 Allergenic Lipocalins shape dendritic cells to induce TH2 immune responses**

project lead: HEUFLER-TIEFENTHALER Christine  
university / research place: University Hospital for Dermatology and Venerology, Innsbruck Medical University, Anichstrasse 35, 6020 Innsbruck, Tyrol, Austria

decision board: 20.01.2015

lifetime: 01.07.2015 - 30.06.2020

science discipline

50% 301 Medical-Theoretical Sciences, Pharmacy

30% 302 Clinical Medicine

20% 106 Biology

keywords: dendritic cells, formyl peptide receptors, lipocalins, allergy