

## FWF - Projects

### 34783 **MicroRNAs as predictive biomarkers for COVID-19**

project lead: HACKL Hubert (national research partner)  
university / research place: Institute of Bioinformatics, Biocenter Innsbruck, Medical University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol Austria  
decision board: 08.03.2021  
lifetime: approved  
science discipline  
40% 302 Clinical Medicine  
40% 102 Computer Sciences  
20% 301 Medical-Theoretical Sciences, Pharmacy  
keywords COVID-19, prediction, microRNAs

### 34723 **Role of plasmalogens in ether lipid-associated pathologies**

project lead: WATSCHINGER Katrin  
university / research place: Institute of Biological Chemistry, Biocenter Innsbruck, Medical University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 08.03.2021  
lifetime: approved  
science discipline  
100% 301 Medical-Theoretical Sciences, Pharmacy  
keywords lipid metabolism, rhizomelic chondrodysplasia punctata, plasmalogen, ether phospholipid

### 34403 **Post-operative cognitive dysfunction and the gut microbiome**

project lead: KRESS Michaela  
university / research place: Institute of Physiology, Medical University of Innsbruck, Schöpfstr. 41, 6020 Innsbruck, Tyrol, Austria  
decision board: 08.03.2021  
lifetime: approved  
science discipline  
50% 301 Medical-Theoretical Sciences, Pharmacy  
50% 302 Clinical Medicine  
keywords POCD, medial prefrontal cortex, enteric neuron, pain, interleukin-6 signal transducer, gut microbiome

### 34368 Assessing the role of PKD family members for T cell function

Project lead: BELLAIRE-SIEGMUND Kerstin  
University / research place: Department for Genetics and Pharmacology, Medical University of Innsbruck, Peter Mayr Str. 1a, 6020 Innsbruck, Tyrol, Austria

Decision board: 08.03.2021

Lifetime: approved

Science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords

Immunology, Inflammation, Tumor Immunity, T lymphocyte activation, Protein Kinase D

### 34320 Role of NPY in the integration of fear and food intake

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

decision board: 23.11.2020

lifetime: approved

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords Neuropeptide, Neuropeptid Y, NPY, amygdala, Fear, Food intake

### P34132 DNA as template for ribosomal translation?

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

decision board: 23.11.2020

lifetime: 01.02.2021 – 31.01.2024

science discipline

100% 106 Biology

keywords translation, ribosome, protein synthesis, synthetic biology

### 34070 Treating SARS-CoV-2 infection in human 3D respiratory models

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

decision board: 20.07.2020

lifetime: 01.10.2020 – 30.09.2024

science discipline

30% 303 Health Sciences

30% 301 Medical-Theoretical Sciences, Pharmacy

30% 106 Biology

10% 304 Medical Biotechnology

keywords SARS-CoV-2, COVID19, respiratory system, human, immunity

### **33936 The role of 5-methylcytosine in mammalian mRNA**

project lead: LUSSEER Alexandra  
university / research place: Institute of Molecular Biology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 28.09.2020

lifetime: 01.03.2021 – 28.02.2025

science discipline

100% 106 Biology

keywords RNA modification, 5-methylcytosine, epitranscriptomics, RNA modifying enzymes, RNA chemistry

### **33855 Immunotherapy of cancer with Langerin-ligand liposomes**

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

decision board: 28.09.2020

lifetime: 01.12.2020 – 30.11.2024

science discipline

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 302 Clinical Medicine

keywords Langerhans cells, immunotherapy, melanoma, Langerin, nanovaccines, T cell responses

### **33776 Dissecting the functions of multiple interactions of STAC3**

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

decision board: 11.05.2020

lifetime: 01.03.2021 – 29.02.2024

science discipline:

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 106 Biology

keywords STAC3, Excitation-contraction coupling, skeletal muscle, voltage-gated calcium channels

### **33727 Neurokinin B in emotional and metabolic processing**

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

decision board: 30.06.2020

lifetime: 01.12.2020 – 30.11.2024

science discipline:

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 106 Biology

keywords Neuropeptide, Neurokinin B, fear, anxiety, amygdala, feeding

### 33640 The ATP receptor P2Y11 engages nonapoptotic functions of Fas

project lead: THURNHER Martin

university / research place: University Hospital for Urology, Medical University of Innsbruck,  
Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 11.05.2020

lifetime: 15.07.2020 – 14.07.2023

science discipline:

40% 302 Clinical Medicine

40% 106 Biology

20% 301 Medical-Theoretical Sciences, Pharmacy

keywords P2Y11, ATP, CD95, NR4A1, Survival, IL-7R

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

project lead: WILFLINGSIEDER 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: 01.06.2020 – 31.05.2024

science discipline:

65% 301 Medical-Theoretical Sciences, Pharmacy

35% 106 Biology

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

### 33411 Improving axon regeneration in the peripheral nervous system

project lead: SCHWEIGREITER Rüdiger

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

decision board: 11.05.2020

lifetime: 15.02.2021 – 14.02.2024

science discipline:

70% 106 Biology

20% 301 Medical-Theoretical Sciences, Pharmacy

10% 206 Medical Engineering

keywords neurons, axons, regeneration, peripheral nerves, i

### 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: 01.06.2020 – 31.05.2023

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: 01.05.2020 – 30.04.2022

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: 01.09.2020 – 31.08.2024

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: 19.10.2020 – 18.10.2023  
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 – 29.02.2024  
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 – 30.11.2022

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 – 31.03.2024

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 – 31.01.2022

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 – 31.10.2021

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 – 31.12.2021

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 - 30.11.2021

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 – 28.02.2022

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 – 31.03.2022

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 – 31.12.2021

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 – 30.06.2021

science discipline

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 302 Clinical Medicine



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

### 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 – 31.05.2021

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 – 31.07.2021

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Plasmalyethanolamine 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

### 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 – 31.08.2021

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

### 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