

## International Projects

### I4891 Nocturnal periodic breathing at altitude: the consequences

project lead: HÖGL Birgit  
university / research place: University Hospital for Neurology, Innsbruck Medical University,  
Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 11.05.2020

lifetime: approved

science discipline:

60% 302 Clinical Medicine

40% 301 Medical-Theoretical Sciences, Pharmacy

keywords nocturnal periodic breathing, high altitude, sympathetic nervous system, acute mountain sickness, sleep quality, high altitude acclimatization

### I4859 microRNA and regulation of MED in prostate cancer

project lead: CULIG Zoran  
university / research place: University Hospital for Urology, Innsbruck Medical University,  
Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 11.05.2020

lifetime: approved

science discipline

60% 301 Medical-Theoretical Sciences, Pharmacy

40% 302 Clinical Medicine

keywords: prostate cancer, mediator complex, therapy resistance, transforming growth factor

### I4811 Neurotrophins in developing human inner ear and in HNSCC

project lead: DUDAS József  
university / research place: University Hospital for Otorhinolaryngology (ENT), Innsbruck Medical  
University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 09.03.2020

lifetime: 01.09.2020 – 31.08.2023

science discipline

45% 106 Biology

45% 302 Clinical Medicine

10% 301 Medical-Theoretical Sciences, Pharmacy

keywords: radiochemotherapy resistance, fetal inner ear, gene expression profiling, hearing loss mutational spectrum, Neurotrophin, tumor cell survival

#### **I4565 Prostate Cancer Therapy Resistance: Impact of Stromal Hetero**

project lead: SAMPSON Natalie  
university / research place: University Hospital for Urology, Innsbruck Medical University,  
Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 25.11.2019

lifetime: 01.08.2020 – 31.07.2024

science discipline

85% 301 Medical-Theoretical Sciences, Pharmacy

15% 302 Clinical Medicine

keywords: stroma, heterogeneity, prostate cancer, FACS, microenvironment, therapy resistance

#### **I4239 Personalized Treatment in IgA Nephropathy (PersTlgAN)**

project lead: RUDNICKI Michael  
university / research place: University Hospital for Internal Medicine IV, Innsbruck Medical  
University, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 26.11.2018

lifetime: 01.05.2019 – 30.04.2021

science discipline

75% 302 Clinical Medicine

25% 106 Biology

keywords: Chronic kidney disease, personalized medicine, IgA nephropathy, biomarker, proteomics

#### **I4229 Biomolecular Analyses for Tailored Medicine in AcneInversa (BATMAN)**

project lead: SCHMUTH Matthias  
university / research place: University Hospital for Dermatology, Venerology and Allergology,  
Innsbruck Medical University, Anichstraße 35, 6020 Innsbruck, Tyrol,  
Austria

decision board: 26.11.2018

lifetime: 01.05.2019 – 30.04.2022

science discipline

70% 106 Biology

30% 302 Clinical Medicine

keywords: hidradenitis, inflammation, metabolism, skin, hair follicle

#### **I4220 Novel <sup>99m</sup>Tc-labeled somatostatin receptor antagonists (TECANT)**

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

decision board: 26.11.2018

lifetime: 01.07.2019 – 30.06.2022

science discipline

90% 302 Clinical Medicine

10% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Neuroendocrine Neoplasms, SPECT, Antagonists, Technetium-99m, Somatostatin Receptor

#### **I4161 Investigating long non-coding RNA regulated pathways**

project lead: HAUBNER Bernhard Johannes

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

decision board: 01.10.2018

lifetime: 01.04.2019 – 31.03.2022

science discipline

100% 302 Clinical Medicine

keywords: heart failure, cardiac regeneration, Long non-coding RNA, myocardial infarction, therapy

#### **I4147 Modelling electrical stimulation of the human cochlear nerve**

project lead: SCHROTT-FISCHER Anneliese

university / research place: University Hospital for Otorhinolaryngology, Innsbruck Medical University, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 01.10.2018

lifetime: 01.03.2019 – 28.02.2022

science discipline

50% 206 Medical Engineering

50% 301 Medical-Theoretical Sciences, Pharmacy

keywords: human inner ear, computational modelling, finite element modelling, cochlea implant, hearing loss

#### **I4140 Glutamine metabolism as potential target for prostate cancer**

project lead: SKVORTSOV Sergej

university / research place: University Hospital for Radiotherapy, Innsbruck Medical University, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria

decision board: 01.10.2018

lifetime: 01.03.2019 – 28.02.2022

science discipline

50% 301 Medical-Theoretical Sciences, Pharmacy

35% 106 Biology

15% 302 Clinical Medicine

keywords: Radiosensitization, Biomarkers, Prostate Cancer, Radiation Therapy

#### **I3984 3D diffractive elements through fs-laser direct writing**

project lead: JESACHER Alexander

university / research place: Department for Physiology and Medical Physics, Innsbruck Medical University, Schöpfstraße 41, 6020 Innsbruck, Tyrol, Austria

decision board: 11.03.2019

lifetime: 07.01.2020 – 06.01.2023

science discipline

50% 103 Physics, Astronomy

25% 202 Electrical Engineering, Electronics, Information Engineering

25% 102 Computer Sciences

keywords: diffractive optical elements, femtosecond laser direct writing

### **I3978 IBDome**

project lead: TRAJANOSKI Zlatko

university / research place: Division of Bioinformatics, Biozentrum Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria

decision board: 25.06.2018

lifetime: 01.08.2018 – 31.07.2022

science discipline

100% 106 Biology

keywords

inflammatory bowel diseases, database, bioinformatics

### **I3976 Predictive markers of immune checkpoint inhibitor therapy**

project lead: DUDAS József

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

decision board: 01.10.2018

lifetime: 01.03.2019 – 28.02.2023

science discipline

55% 301 Medical-Theoretical Sciences, Pharmacy

45% 302 Clinical Medicine

keywords: immune checkpoint, immunohistochemistry, predictiv

### **I3352 Efficacy and safety of nicotinamide in patients with Friedreich's ataxia (NICOFA)**

project lead: BOESCH Sylvia Maria

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

decision board: 03.10.2016

lifetime: 01.04.2017 - 31.03.2022

science discipline

80% 302 Clinical Medicine

20% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Neurology, Ataxia, Frataxin, Nicotinamide, Genetics, SARA

### **I3321 EpiCross: Epigenetic Basis and Therapeutic Implications of the Cross-regulation of Arginase1**

project lead: WEISS Günter  
university / research place: University Hospital for Internal Medicine II, Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria  
decision board: 03.10.2016  
lifetime: 01.02.2017 – 30.06.2021  
science discipline  
60% 301 Medical-Theoretical Sciences, Pharmacy  
40% 303 Health Sciences  
keywords: host-microbe interaction, epigenetic regulation of immune genes, innate immune regulation, new antimicrobial pathways, intracellular pathogens, macrophage

### **I3291 Protein-protein interaction networks for precision oncology**

project lead: TRAJANOSKI Zlatko  
university / research place: Division of Bioinformatics, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 08.05.2017  
lifetime: 01.10.2017 - 30.09.2020  
science discipline  
100% 102 Computer Sciences  
keywords cancer immunology, protein complexes, neoantigens, breast cancer

### **I3271 New insights into the Bcl2 family: from biophysics to function**

project lead: VILLUNGER Andreas  
university / research place: Division of Developmental Immunology, Innsbruck Medical University, Biocenter, Innrain 80 – 82, 6020 Innsbruck, Tyrol, Austria  
decision board: 03.10.2016  
lifetime: 01.04.2017 – 31.03.2021  
science discipline  
100% 301 Medical-Theoretical Sciences, Pharmacy  
keywords: Bcl2 family, cell cycle, apoptosis

### **I3258 Local remodelling and mechanoregulation of bone fracture healing in healthy, aged, and osteoporotic humans**

project lead: BLAUTH Michael  
university / research place: University Hospital for Trauma Surgery, Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria  
decision board: 03.10.2016  
lifetime: 01.02.2017 – 31.01.2021  
science discipline  
30% 211 Other Technical Sciences  
30% 302 Clinical Medicine

25% 206 Medical Engineering

15% 403 Veterinary Medicine

keywords: Mechanobiology, Micro-FE analysis, metaphyseal bone fracture healing, computational simulation, time-lapse in vivo HR-pQCT, osteoporosis

### I3154 Gapless man:machine interface in the inner ear

project lead: GLÜCKERT Rudolf

university / research place: Department of Otorhinolaryngology (ENT), Hearing, Speech & Voice Disorders, Innsbruck Medical University, Anichstr.35, 6020 Innsbruck, Tyrol, Austria

decision board: 03.10.2016

lifetime: 01.10.2017 – 30.12.2020

science discipline

80% 106 Biology

20% 102 Computer Sciences

keywords: auditory nerve regeneration, neurotrophic factors, electrical stimulation, cochlear implant

### I3132 The gamma-core motif of antifungal proteins of Ascomycetes

project lead: MARX-LADURNER Florentine

university / research place: Division of Molecular Biology, Innsbruck Medical University, Biocenter, Innrain 80 - 82, 6020 Innsbruck, Tyrol, Austria

decision board: 03.10.2016

lifetime: 01.05.2017 – 30.04.2022

science discipline

100% 106 Biology

keywords: gamma-core protein motif, antifungal proteins and peptides, structure-function relation, antifungal drug development

### I3089 Inhibition of FOXO3-DNA interaction by small molecules

project lead: AUSSERLECHNER Michael

university / research place: Department of Child and Adolescent Health , Innsbruck Medical University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria

decision board: 28.11.2016

lifetime: 01.02.2017 – 31.01.2022

science discipline

50% 301 Medical-Theoretical Sciences, Pharmacy

26% 106 Biology

24% 104 Chemistry

keywords: Forkhead Transcription Factors, Structural Biology, Pathophysiology, Cancer Therapy, NMR Structure, Drug Optimization

### **I2909 C1r and C1s Mutations in Ehlers-Danlos syndrome periodontal**

project lead: ZSCHOCKE Johannes  
university / research place: Division of Human Genetics, Innsbruck Medical University,  
Peter-Mayr-Str. 1, 6020 Innsbruck, Tyrol, Austria

decision board: 27.06.2016

lifetime: 01.12.2016 – 31.01.2020

science discipline

67% 301 Medical-Theoretical Sciences, Pharmacy

33% 302 Clinical Medicine

keywords: Complement, Ehlers-Danlos Syndrome, Periodontitis, Collagen, Mutation

### **I2215 Plasticity of amygdala intercalated cell microcircuits in fear learning**

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

decision board: 04.05.2015

lifetime: 01.10.2015 - 30.09.2020

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Amygdala intercalated cells, Synaptic plasticity, Fear learning, Dopaminergic modulation, GABAergic system, Ionotropic glutamate receptors

### **I2120 Safer Screen for REM sleep behavior disorder (RBD)**

project lead: HÖGL Birgit  
university / research place: University Hospital for Neurology, Innsbruck Medical University,  
Anichstr. 35, 6020 Innsbruck, Tirol, Österreich

decision board: 06.10.2014

lifetime: 01.02.2015 – 31.01.2021

science discipline

90% 302 Clinical Medicine

10% 504 Sociology

keywords: Neurodegeneration, Questionnaire, REM sleep behavior disorder (RBD), Polysomnography, Parkinson syndromes, smartphone