

## International Projects

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

call: Südtirol - FWF

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

call: DACH

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

call: JSPS/Japan

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**

call: DACH

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 (PersTIgAN)**

call: ERA PERMED

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)**

call: ERA PERMED

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 99mTc-labeled somatostatin receptor antagonists (TECANT)**

call: ERA PERMED

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**

call: ERA-CVD

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**

call: DACH

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**

call: DACH

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

call: DACH

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

call: DACH

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

call: NKFIH/Ungarn

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)**

call: ERA E-RARE

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**

call: ERA Infect-ERA

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**

call: DACH

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**

call: DACH

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**

call: DACH

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**

call: DACH

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

call: NKFIH/Ungarn

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

call: GACR/Tschechien

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

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

call: DACH

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)

call: JP/CONICET/Argentinien

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