

## International Projects

### 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, Tirol, Austria  
decision board: 03.10.2016  
lifetime: 01.04.2017 - 31.03.2020  
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 VI, Innsbruck Medical  
University, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria  
decision board: 03.10.2016  
lifetime: 01.02.2017 – 31.01.2020  
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

### 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 – 31.03.2020  
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 – 31.01.2020  
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 – 30.09.2020  
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 – 30.04.2020  
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 – 31.01.2020

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

### **I2550 Complement and regulatory T cells**

project lead: STOIBER Heribert

university / research place: Division of Virology, Innsbruck Medical University,  
Schöpfstr. 41, 6020 Innsbruck, Tyrol, Austria

decision board: 05.10.2015

lifetime: 01.03.2016 - 28.02.2019

science discipline

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 303 Health Sciences

keywords: complement system, regulatory T cells, Friend virus, dendritic cells

### **I2220 Functional of the metabotropic glutamate receptor 1 (mGlu1) splice variants**

project lead: FERRAGUTI Francesco

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

decision board: 02.03.2015

lifetime: 01.05.2015 - 30.04.2017

science discipline

60% 301 Medical-Theoretical Sciences, Pharmacy

25% 304 Medical Biotechnology

15% 305 Other Human Medicine, Health Sciences

keywords: Metabotropic glutamate receptor, Synapse, Cerebellum, Intracellular signalling, Purkinje cell, Splicing

### **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 - 30.09.2018

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 - 31.01.2019

science discipline

90% 302 Clinical Medicine

10% 504 Sociology

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

### **I2102 Targeting Alpha-Synuclein for treating multiple system atrophy**

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

decision board: 06.10.2014

lifetime: 01.01.2016 - 31.12.2018

science discipline

75% 302 Clinical Medicine

25% 301 Medical-Theoretical Sciences, Pharmacy

keywords: Multiple System Atrophy, Interventional Therapies, Transgenic Mouse Model, Oligodendrocyte, Alpha-Synuclein

### **I1644 Structure and function of the antifungal protein PAFB and NFAP**

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

decision board: 02.03.2014

lifetime: 01.07.2014 - 30.06.2019

science discipline

100% 106 Biology

keywords: NMR, Protein Structure-Function Relation, Antifungal Proteins, Penicillium chrysogenum PAFB, Neosartorya fischeri NFAP

### **I1616 Systematic identification of antifungal drug targets by a metabolic network approach**

project lead: HAAS Hubertus

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

decision board: 02.12.2013

lifetime: 01.03.2014 - 31.03.2018

science discipline

60% 106 Biology

20% 102 Computer Sciences

20% 303 Health Sciences

keywords: Metabolic network, Regulation, Modelling, Virulence, Aspergillus fumigatus, Drug target

### **I1585 Nanoparticle-Enhanced molecular Fluorescence-Endoscopy for detection of colon cancer (NanoEFect)**

project lead: DEBBAGE Paul

university / research place: Department of Anatomy, Histology and Embryology, Innsbruck Medical University, Müllerstrasse 59, 6010 Innsbruck, Tyrol, Austria

decision board: 30.09.2013

lifetime: 01.04.2014 – 30.06.2017

science discipline

90% 301 Medical-Theoretical Sciences, Pharmacy

10% 302 Clinical Medicine

keywords: Colorectal Cancer, Fluorescence-Endoscopy, Nanoparticles, Fluorescence Optics, Molecular Imaging, Biomarker Targeting

### **I1576 Translational Implementation of genetic evidence in the management of MDS (TRIAGE-MDS)**

project lead: STAUDER Reinhard

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

decision board: 30.09.2013

lifetime: 01.04.2014 - 31.03.2018

science discipline

100% 301 Medical-Theoretical Sciences, Pharmacy

keywords: MDS, Clonal Evolution, Next Generation Sequencing, Prognosis, EU-MDS Registry, Molecular Aberrations

### **I1482 Evolution of metallothioneins in gastropods**

project lead: LINDNER Herbert (national research partner)  
university / research place: Division of Clinical Biochemistry  
decision board: 24.06.2013  
lifetime: 01.01.2014 – 31.12.2018  
science discipline  
100% 106 Biology  
keywords: Metallothioneins, Gastropods, Evolution, Protein Structure, Metal Selectivity, Solution NMR

### **I1346 Novel molecular mechanisms of iron sensing and homeostasis in filamentous fungi**

project lead: HAAS Hubertus  
university / research place: Division of Molecular Biology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 02.03.2014  
lifetime: 01.05.2014 – 30.06.2018  
science discipline  
90% 106 Biology  
10% 303 Health Sciences  
keywords: Iron regulation, HapX, Iron sensing, SreA, Fungi, CCCAT binding complex

### **I1298 New insights into Bcl-2 family interactions from biophysics to function**

project lead: VILLUNGER Andreas  
university / research place: Division of Developmental Immunology, Biocenter Innsbruck, Innsbruck Medical University, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria  
decision board: 02.12.2013  
lifetime: 01.02.2014 - 30.04.2017  
science discipline  
80% 301 Medical-Theoretical Sciences, Pharmacy  
20% 106 Biology  
keywords: Bcl2 family, A1/Bfl1, Apoptose

### **I1224 A novel radiolabelled biomarker for medullary thyroid cancer (GRA-T-MTC)**

project lead: DECRISTOFORO Clemens  
university / research place: University Hospital for Nuclear Medicine, Innsbruck Medical University, Anichstraße 35, 6020 Innsbruck, Tyrol, Austria  
decision board: 01.10.2012  
lifetime: 01.04.2013 - 30.06.2017  
science discipline  
80% 302 Clinical Medicine  
20% 301 Medical-Theoretical Sciences, Pharmacy  
keywords: Therapy, CCK-2/Gastrin Receptor Targeting, Dosimetry, Human Model, Biomarker

## **1977 Gene therapy in temporal lobe epilepsy: Viral overexpression of Neuropeptides**

project lead: SCHWARZER Christoph

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

decision board: 05.03.2012

lifetime: 01.09.2012 – 31.07.2017

science discipline

80% 301 Medical-Theoretical Sciences, Pharmacy

20% 106 Biology

keywords: mesial temporal lobe epilepsy, dynorphin, gene therapy, in-vivo EEG, kappa opioid receptor, anticonvulsant