

ESPRIT Programme

ESP1232724 Polyploidy dynamics & interactions across mammalian tissues

project lead: SLADKY Valentina
university / research place: Institute of Developmental Immunology, Medical University of Innsbruck, CCB, Innrain 80, 6020 Innsbruck, Tyrol, Austria
lifetime: 16.11.2025 – 15.11.2028
science discipline:
Biologie (25%); Medizinisch-theoretische Wissenschaften, Pharmazie (75%)
keywords: Polyploidy, Whole Genome Duplication, Chromosomal Instability, Aneuploidy, Tissue Homeostasis

ESP1588825 The role of subiculum in sleep-wake regulation

project lead: RAHIMI Sadegh
university / research place: University Hospital for Neurosurgery, Medical University of Innsbruck, Anichstr. 35, 6020 Innsbruck, Tyrol, Austria
lifetime: 01.11.2025 – 31.10.2028
science discipline:
Clinical Medicine (30%); Medical-Theoretical Sciences, Pharmacy (70%)
keywords: Ventral Subiculum, Sleep, Top-Down, Somatostatin-Expressing Neurons, Wakefulness,

ESP 634 Targeting the early secretory pathway of multiple myeloma

project lead: HORZUM Utku
university / research place: Institute of Pathophysiology, Medical University of Innsbruck, Innrain 80-82, 6020 Innsbruck, Tyrol, Austria
lifetime: 01.04.2024 – 31.03.2027
science discipline
Biology (60%);
Medical-Theoretical Sciences, Pharmacy (40%)
keywords: COPII, Endoplasmic reticulum, Secretion, Myeloma

ESP 461 Structural basis of CaV3.3 calcium channel gating mechanisms

project lead: EL GHALEB Yousra
university / research place: Institute of Physiology, Medical University of Innsbruck, Schöpfstr. 41, 6020 Innsbruck, Tyrol, Austria
decision board: 02.05.2023
lifetime: 01.08.2023 – 31.07.2026

science discipline:

50% 301 Medical-Theoretical Sciences, Pharmacy

50% 106 Biology

keywords: voltage-gated calcium channels, T-type calcium channels, Voltage-sensing, Channelopathies, patch-clamp electrophysiology, ion-channel structure modelling

ESP 222 **mitoTree**

project lead: HUBER Nicole

university / research place: Institute of Forensic Medicine, Medical University of Innsbruck,
Müllerstr. 44, 6020 Innsbruck, Tyrol, Austria

decision board: 27.06.2022

lifetime: 01.10.2022 – 30.09.2026

science discipline:

50% 102 Computer Sciences

30% 106 Biology

20% 305 Other Human Medicine, Health Sciences

keywords: mtDNA, phylogeny, NGS, haplogrouping

ESP 138 **The role of NLRP3 inflammasome activation in LC for vitiligo**

project lead: STRANDT Helen

university / research place: University Hospital for Dermatology, Venereology and Allergology,
Medical University of Innsbruck, Anichstr. 35, 6020 Innsbruck, Tyrol,
Austria

decision board: 02.05.2022

lifetime: 01.08.2022 – 31.12.2026

science discipline:

70% 301 Medical-Theoretical Sciences, Pharmacy

30% 302 Clinical Medicine

keywords: Langerhans cell, Vitiligo, Inflammasome, NLRP3, Innate immunity, LC-targeted therapy