



HUMAN & BIOTECHNOLOGY

Fields of Expertise TU Graz

Source: fotolia.com



Gernot Müller-Putz,
Human & Biotechnology

Source: Lunghammer – TU Graz

We would like to take a brief look back at the third Human & Biotechnology FoE Day, which took place last autumn. The aim was to give new and existing companies from the areas of research belonging to our Field of Expertise the opportunity to speak. Representatives of successful businesses talked about their careers and their companies' portfolios. We heard from Biotenzz, CNSystems, bisy e.U., Tyromotion, Innophore,

CNA Diagnostics, Microinnova Engineering GmbH, g.tec, and VALIDOGEN. The range of topics covered everything from basic research to marketable products.

The next FoE Day will take place on 28 October and will once again be dedicated to science.

The new performance period will create fresh opportunities for the members of the Fields of Expertise: in addition to the tried and tested Initial Funding Programme (the 11th call for proposals is already underway), there are also grants for research and teaching infrastructure.

The professorship in Bioinformatics is currently being negotiated with the Rectorate. The goal is to establish a new institute in the field of biomedical engineering. A professorship in compu-

tational medicine is also in the pipeline and will be announced in due course. And a professorship in Biooptical Imaging and Spectroscopy is set to further strengthen the entire department.

The Austrian Science Fund (FWF) recently approved a doctoral programme entitled CATALOX - Catalytic Mechanisms and Applications of Oxidoreductases, which is being coordinated by Robert Kourist from the Institute of Molecular Biotechnology. There was strong competition for funding, with only six successful applications in the whole of Austria. The CATALOX research and training programme for doctoral candidates is scheduled to start in October 2019 and will run for four years. Ten project leaders, seven of them at TU Graz, are participating in the programme. CATALOX is a NAWI Graz project involving three other project leaders from the University of Graz.

Theresa Rienmüller:

Lighting Up the Brain: LOGOS-TBI Project

Jointly funded by the Austrian Science Fund (FWF) and the Austrian Academy of Sciences (ÖAW) over the next four years, the LOGOS-TBI project was launched at the Medical University of Graz and TU Graz in May 2019. In this project, neuronal cells will be stimulated using light-activated organic semiconductor implants. Electrical brain stimulation is aimed at promoting neuronal network formation and enhancing regeneration and neuroprotection after traumatic brain injury (TBI). This interdisciplinary research project brings together specialists in neuroscience (M. Ücal), structural biology (K. Kornmüller), electrophysiology (S. Scherübel) and biomedical engineering (T. Rienmüller).



Theresa Rienmüller
is deputy head of the Institute of Health Care Engineering with European Testing Center of Medical Devices. She and her working group focus on computational and experimental physiology.

Source: Jakob Leiner – TU Graz/HCE

TRAUMATIC BRAIN INJURY (TBI)

TBI is a major cause of death and disability, particularly among young adults. The costs of patient care place a burden on both families and the public health system. Moreover, years of disability leave TBI survivors dependent on assistance