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HUMAN & BIOTECHNOLOGY

Fields of Expertise TU Graz



Source: Lünghammer – TU Graz

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 **Human & Biotechnology**

The new semester has begun with a breath of fresh air, and major new research projects and initiatives in our FoE are picking up speed.

Biotechnological research is becoming increasingly digital and linked to the fields of data science and artificial intelligence. TU Graz is funding a new lead project called DigiBioTech, in which 17 scientists and ten doctoral students from the fields of biotechnology, biotechnological process engineering and computer science are working closely together to significantly improve the predictability and control of biochemical reactions and processes. The latter should not only enable production processes to be designed more sustainably, but should also be able to break down persistent environmental toxins such as perfluorinated and polyfluorinated alkyl compounds (PFAS).

The biotechnologists at TU Graz are also involved in the newly funded Austrian Science Fund Cluster of Excellence "Circular Bioengineering". Here, scientists from various universities and research institutions are working together on the efficient production of platform chemicals and materials from renewable raw materials. The circular integration of bio-

technological processes makes it possible to switch from petroleum-based to bio-based materials.

The tenure track professorship in biomedical engineering was filled by the first-ranked candidate out of 99 submissions in this year's call for FoE tenure track positions. Debkalpa Goswami, assistant professor of medicine and biomedical engineering at the Cleveland Clinic Lerner College of Medicine at Case Western Reserve University, USA, will take up his teaching and research activities at the Institute of Health Care Engineering with Testing Center of Medical Devices in the field of soft robotics implants on 1 July 2025.

Change and continuity also ensure research. So we look forward to working together in our FoE and invite you once again to join us in shaping it.

We hope you enjoy reading our FoE's contribution in this issue of the research magazine. ●

