



University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

March 2024

Congratulations



on the Innosuisse funding for Dr. Ferda Canbaz

Dr. Ferda Canbaz has secured a Life Sciences funding of 1.14 million CHF from Innosuisse for a period of three years. The project's ambitious goal is to pioneer the creation of the world's inaugural robotically-controlled handheld LASER-blade designed for joint replacement surgery. This groundbreaking device utilizes fiber lasers and piezoelectric actuation to generate a vibrating "overlapping" line beam, significantly enhancing cutting efficiency compared to traditional single-beam spot approaches. Work starts in April 2024 at the Center for Intelligent Optics of the MIRACLE II Project. Check out more at [DBE News](#).



to Prof. Sinues on his election as Co-President of Swiss Metabolomics Society

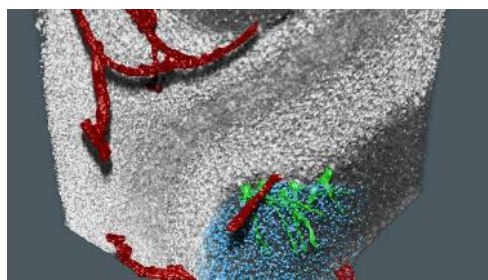
Prof. Pablo Sinues has been elected co-president of the Swiss Metabolomics Society (SMS), together with co-president Dr. Julijana Ivanisevic from University of Lausanne. SMS is an official affiliate of the International Metabolomics Society (IMS). Find more at [DBE News](#).



on the nomination of the Venia Docendi to PD. Dr. Santini

At the request of the Faculty of Medicine [the Regenz granted the Venia Docendi](#) to PD. Dr. Francesco Santini for Radiological Physics. PD. Dr. Santini is Head of the Research Group "[Basel Muscle MRI \(BAMM\)](#)". His research group is located at the University Hospital of Basel.

About us – Highlighted



Editor's pick: Optics and the Brain

Three-dimensional brain imaging is generally performed with magnetic resonance tomography. X-ray tomography, however, provides substantially improved spatial resolution. Replacing the established absorption contrast by the phase-contrast modality, researchers succeeded in the visualization of the cells in the human brain. The next chapter is human cerebellum tomography with near-field speckles, published by an international team with Dr. Christos Bikis and Prof. Bert Müller from [the Biomaterials Science Center at the University of Basel](#).

About us – We welcome



Noa Bar Zohar, who started her PhD with the Translational Imaging in Neurology (THINK) research group led by Prof. Cristina Granziera. Noa completed her master's degree in Translational Neuroscience at Imperial College London, focusing her thesis on estimating brain age in multiple sclerosis patients. During her PhD, Noa will investigate genetic and neuroimaging correlates of myelin and axonal damage in MS.



Till Strunk, who commenced his PhD studies through a collaboration between the Swiss MAM group led by Prof. Dr. Florian Thieringer and the Department of Reconstructive Dentistry (UZB) headed by Prof. Dr. Nicola Zitzmann. His academic background lies in Biomimetics, which he pursued further by completing a master's in Biomedical Engineering at Technische Hochschule and the University of Lübeck. During his master's thesis, Till focused on investigating biodegradable 3D-printed bioglass/polymer composite scaffolds for bone tissue engineering at the University of Erlangen-Nuremberg. For his PhD, Till will continue to explore the potential of biodegradable materials, particularly in the context of 3D-printed patient-specific bone implants.

Events



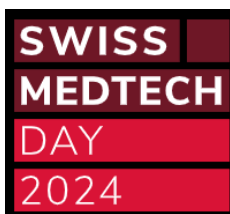
BOOM Summit, April 10-11, Basel

Join the BOOM summit which is dedicated to advancing health technologies and reshaping the healthcare landscape. It's designed to provide a platform for industry visionaries and disruptors to share insights, engage in interactive workshops, and showcase cutting-edge technologies. Enter the code BOOM24 to get a 15% discount upon [registration](#).



Future of Paediatric Health Research Spotlight Day, April 19, Basel, Hotel Odelya

The Basel Research Centre for Child Health (BRCH) invites you to the "Future of Paediatric Health Research Spotlight Day". This one-day seminar and networking event will bring together researchers across disciplines with a common focus on improving child and adolescent health. Find the program and registration [here](#).



Swiss Medtech Day 2024, June 11, Bern

More than 600 people from medical technology, healthcare, research and science meet every year at the the Swiss Medtech Day. This year's Swiss Medtech Day is dedicated to the topic of "Mastering Complexity". Find [here](#) the registration and detailed program.

Calls & Research Funding Deadlines



ERC Advanced Grants – News from Horizon Europe

After a positive agreement between Switzerland and the EU, researchers from Switzerland are allowed to apply for an [ERC Advanced Grant](#) this year. The call is due to open in May. Submission deadline: August 29, 2024



New bilateral call with Vietnam

The SNSF is supporting joint [projects by Swiss and Vietnamese researchers](#). 4 million francs are available for this call for projects on the Swiss side. Submission deadline: April 11, 2024

National Centres of Competence in Research (NCCRs): the SNSF launches a new call

Long-term research on strategic topics: the SNSF is launching a new series of [National Centres of Competence in Research \(NCCRs\)](#) on behalf of the federal government. This new call is thematically open and is aimed at all disciplines. Submission deadline: April 15, 2024

Call of the Southeast Asia – Europe Joint Funding Scheme

The Joint Funding Scheme (JFS) is launching a new call. It enables [Southeast Asian and European researchers](#) to collaborate on topics of interest for both sides. Submission deadline: April 15, 2024

Research Equipment (R'Equip)

[R'Equip](#) is aimed at researchers in Switzerland who need top-quality, innovative equipment for their research work. The SNSF awards grants for the acquisition and development of large-scale apparatuses in all areas of science. Submission deadline: May 2, 2024

Find further calls at [SNF website](#).

At the Department of Biomedical Engineering, we translate basic science and engineering into medical knowledge and healthcare innovations. We provide high quality education and capacity building for academics, clinicians, and industrial partners. The DBE is a joint venture of the University of Basel, the University Hospital Basel and the University Children's Hospital Basel.

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