



University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

December 2023

Congratulations



to Dr. Valentina Basoli and collaborators on JPIAMR-ACTION (SNF).

Dr. Valentina Basoli together with colleagues from Gemelli Hospital in Rome (Italy), Chalmers University of Technology and University of Gothenburg (Sweden), Sens4Med and Adler ortho have been awarded with consortia JPIAMR-ACTION European Grant for the project "SENSIF Innovative multiplex paper-based electrochemical biosensor and artificial intelligence for smart periprosthetic joint infection and AMR diagnostic". The team in Basel will be represented by Dr. Olivier Braissant (DBE), Prof. Florian Thieringer (USB, DBE) and Prof. Martin Clauss (USB). The overall project received over 1,2 million SFR for the next three years.



to Prof. Sinues and his DBI startup on the *Zünder Accelerator Award

Prof. Pablo Sinues with his Startup Deep Breath Intelligence (DBI) has won the [*Zünder Accelerator Award 2023](#) including a Grant of 15.000 SFR at the *Zünder Start Up Day. Besides the DBI has been selected to attend the [Swissnex Startup Bootcamp](#) powered by Innosuisse. This is another milestone in the expansion to the US. The Zug-based start-up has developed a medical breath test. Patients can exhale through a mouthpiece into a high-resolution mass spectrometer. The solution is already being used in practice to measure the effect of an epilepsy medication. The company is also working on a "breath collector" for use at home.



to Dr. Anas Taha on his Award and Grant

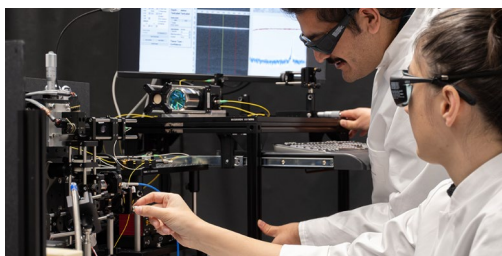
Dr. Anas Taha has won the Award for Best Clinical Publication of Swiss Society of Thoracic Surgery. He presented his paper "Second Primary Cancer Among Patients with Papillary Thyroid Carcinoma Following the Chernobyl Disaster" on the Thoracic Day in Bern. Dr. Taha recently also received a grant from Freiwillige Akademische Gesellschaft for his project "Development of machine learning models for the prediction of BMI and complications after Bariatric surgery (CABS-Study)". Anas is a member of Prof. Phillippe Cattin's research group at the Center for medical Image Analysis & Navigation (CIAN) and is a senior surgeon in Prof. Robert Rosenberg's team in the Gastrointestinal Surgery Center of Cantonal Hospital Basel-Land. Find out more at [DBE News](#).



To Prof. Andreas Mueller on being recognized as Honorary Professor

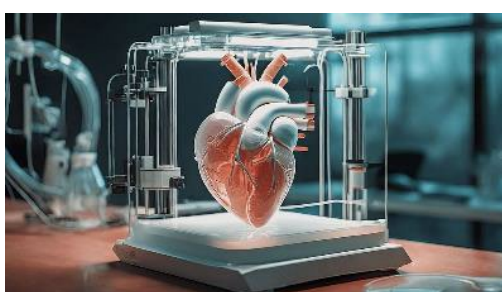
On behalf of the of Higher Education & Research (BIHER) University, Prof. Andreas Mueller is appointed Honorary Professor at Sree Balaji Medical College & Hospital, BIHER University, Chennai. This crowns the success of his Facial & Cranial Anomalies research group at the DBE and their scientific and medical knowledge exchange with colleagues in India. Find more at [DBE News](#).

About us – Highlighted



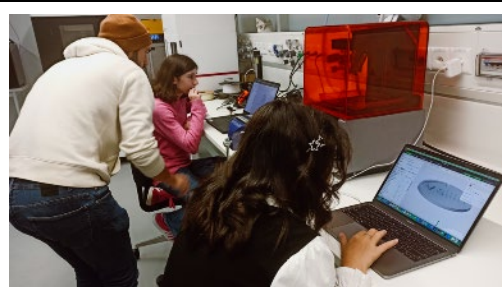
Dr. Ferda Canbaz and Dr. Arsham Hamidi @Unibas News

Find the interesting article ["Replacing bone saws with smart lasers" at Unibas News](#) about the outstanding research of the Biomedical Laser and Optics Group (BLOG) with Dr. Ferda Canbaz and Dr. Arsham Hamidi.



Prof. Florian Thieringer's research all over the news

The Schweizerische Ärztezeitung has published an article on medical 3D printing, focusing on the work of Prof. Florian Thieringer at the DBE and at the University Hospital. The "Interview" Magazine of the Ringier Group has published an interview with Thieringer, Radio Seefunk has an article on their website, medinside reports on the PEEK success covered here in the news, and, without specifying the research group, the biannual publication "Mit allen Sinnen" of Handelskammer beider Basel, also reports on the PEEK success. Find the articles at [DBE News](#).



National Future Career Day 2023

On November 9, 2023, 12 children aged 11 to 13 were able to immerse themselves in the world of biomedical engineering and learn more about DBE innovations. Among other things, they traveled inside the body with VR goggles, dived into a laser maze, x-rayed a surprise egg to discover what was hidden inside without opening it, and designed their own key ring in the 3D printing lab. It was a great pleasure to get to know the next generation of researchers! Click [here](#) for more information and pictures.

About us – We welcome



Dimitrios G. Gkotsoulis, who started at DBE as Research fellow, in Prof. Dr. Cristina Granziera's group. During his Doctoral at the Max Planck Institute CBS, in Germany, he worked on in-vivo brain 7T MRI and PET in human pathology and ex-vivo tissue microstructural characterization based on susceptibility. He holds a MSc in Medical Engineering (KTH, Sweden) and MEng in Electrical Engineering (TUC, Greece). Dimitrios will support in-vivo and post-mortem MRI projects, investigating how contrasts can reveal tissue properties with biomarker potential in Multiple Sclerosis and neuro-inflammation.



Laura Krüsi, who will support Prof. Bert Müller and his BMC team in administrative matters. In addition to her position at the Biomedical Science Centre, she also works at the Faculty of Psychology at the University of Basel. Laura Krüsi is a certified business administrator and holds a Bachelor's degree in Information Sciences from the University of Applied Sciences in Graubünden.

Calls & Research Funding Deadlines



Calls of the University of Basel for 2024

Find the newly published calls for 2024 of the University of Basel: [Research Fund Junior Researchers](#), [University Research Funding](#), [Mobility Grants](#).



Geistlich-Stucki promotion of young academics

The [program](#) supports the careers of young academics. The foundation will finance in particular the salary costs of the researchers for 3 years. Funding can be granted if the following topics are being researched: *Tissue regeneration*, particularly with biological materials in dentistry and oral and maxillofacial surgery; and *cancer research*. Submission Deadline: January 7, 2024.



Robert Bing Prize

The [Robert Bing Prize](#) awards outstanding achievements in the detection and treatment of neurological diseases. The SAMS competition is aimed at young doctors up to the age of 45 who are researching in the field of neuroscience. Submission Deadline: February 1, 2024.



ERA4Health: Opening of call for modulation of brain ageing

The SNSF is participating in the [European Partnership ERA4Health call](#). The topic is modulation of brain ageing through nutrition and healthy lifestyle. Swiss-based researchers can apply. Submission deadline: January 15, 2024

SNSF Advanced Grants 2023

[Grants](#) for leading researchers who want to conduct innovative, high-risk research in Switzerland. Submission deadline: January 31, 2024

Swiss Quantum Call 2024

For [Swiss Quantum](#) researchers who aim to establish, foster and extend collaborations in Switzerland and abroad, as well as project partners from industry. Submission deadline: February 1, 2024.

SNSF Starting Grants 2024

[Grants](#) for researchers who wish to conduct an independent scientific project and lead a research team in Switzerland. Submission deadline: February 1, 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. As part of the new call, the SNSF will offer online information events for researchers. Find more details including the dates for the info events [here](#). Submission deadline: February 15, 2024.

MAPS – Multilateral Academic Projects

[MAPS](#) is a multilateral initiative that supports collaborative research projects between scientists based in Switzerland and their colleagues in Bulgaria, Croatia, Hungary, Poland and Romania. The call is scheduled to open in early 2024.

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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