



University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

August 2024

Congratulations



on the Grant for a “Novel Application of Breath Analysis”

Dr. med Ursula Tanvier and Dr. med. Alexandra Schifferli, both collaborators at Prof. Pablo Sinues’ Translational Medicine Breath Research group, have raised 65’000 SFR from the “Stiftung für krebskranke Kinder, Regio Basiliensis”. Check it out [here](#).



to Prof. Cristina Granziera on her appointment as Adjunct Professor

The University Councils approved the decision by the Senate to [appoint 5 adjunct professorships in the Faculty of Medicine](#), among them Prof. Dr. med. Dr. phil. Cristina Granziera for Neurology (with simultaneous “Umhabilitation”, transfer of authorization to teach). At the DBE Cristina and her group investigate the pathogenesis of neuroinflammatory and cerebrovascular diseases – such as multiple sclerosis, neuro-HIV, migraine, and stroke – using state-of-the-art neuroimaging methods.



to the “Best Master Thesis” & “DBE Poster Award” winners at the 10th Research Day

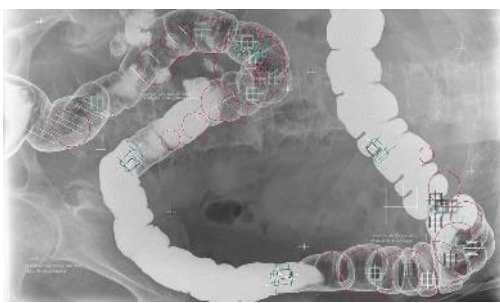
Best Master’s Thesis I: Géraldine Borer (shared 1st place)
Best Master’s Thesis II: Elisabetta Giacomelli (shared 1st place)
Best Poster 1st place: Michaela Maintz (Swiss MAM group)
Best Poster 2nd place: Jokin Zubizarreta Oteiza (Swiss MAM group)
Best Poster 3rd place: Yukiko Tomooka (BIROMED-Lab)
Best Poster Public Vote: Jokin Zubizarreta Oteiza (Swiss MAM group)

About us – Highlighted



Ten Years of Electrifying Knowledge Transfer on DBE Research Days

Bring clinical and engineering experts together and things get genuinely exciting. Novel ideas are being born at a spectacular rate, addressing unheard ways to solve a complex range of problems. For 10 years now, [DBE Research Days](#) guarantee for exactly this. This year, 210 participants experienced 24 presentations on topics ranging from rehabilitation robots and pharmacogenetics in forensic science to the integration of tissue engineering and 3D printing. The 10th birthday of this event also provided the opportunity to look back and forward in time. Get an impression [here](#) incl. photos.



Collaboration between DBE and the European Society of Coloproctology

Dr. Anas Taha, associate member of Prof. Cattin’s “Center for medical Image Analysis & Navigation (CIAN)”, has established a new collaboration with the European Society of Coloproctology (ESCP) cohort studies team. In this collaboration, data is shared with researchers to be used in an international multicenter study about “Development of a Machine Learning-Based Model to Optimize Anastomosis Configuration in Right Hemicolectomy for Minimizing Postoperative Anastomotic Leakage”. The study aims to develop a machine learning-based model to choose the best anastomosis configuration, thereby minimizing the risk of complications. Find more at [DBE News](#).

About us – We welcome



Cosimo Loffreda, who began his PhD journey under the guidance of Dr. Valentina Basoli in the “Swiss MAM” group led by Prof. Florian Thieringer. His academic path started at Maastricht University in the Netherlands, where he earned a bachelor’s degree in Liberal Arts and Sciences, followed by a master’s degree in Biomedical Sciences. During his master’s studies, Cosimo developed an interest in tissue engineering and regenerative medicine, focusing his thesis on developing scaffolds for heart tissue regeneration. Now, as part of the Phoenix-OoC project, Cosimo is working on developing an organ-on-chip model to study osteoarthritis.



Milad Malek Mohammadi, who recently started his PhD in Dr. Ferda Canbaz’s research group “Center of Intelligent Optics – CIO”. Milad completed his bachelor’s degree in Atomic Physics at Vali-e-Asr University of Rafsanjan, and his master’s degree in Photonics at the Institute for Advanced Studies in Basic Sciences (IASBS) in Zanjan. His background is in optical system design, with a focus on beam shaping, optical tweezers, and imaging techniques. Milad’s research at CIO group will focus on beam shaping in laser ablation for bone cutting, and the development of optical setups for single-cell analysis.



Leya Pauly, who recently began her PhD also in the “Center for Intelligent Optics – CIO” research group, led by Dr. Ferda Canbaz. She completed her master’s degree in Physics in India and subsequently worked as a Research Assistant at Cochin University of Science and Technology (CUSAT), India where she specialized in using Laser-Induced Breakdown Spectroscopy (LIBS) technique for qualitative and quantitative multi-elemental analysis of alloys. During her PhD, Leya will focus on improving the speed and reliability of cancer diagnosis, as well as the accurate detection of tumor borders, through various optical imaging and analysis techniques.

Events



Information and Networking Workshop – Health & Medicine | September 13 | Basel

Are you looking for funding opportunities for your research project in the field of Health? Eucor – The European Campus, Science Pillar, and TriRhenaTech invite you to an exclusive [Information and Networking event](#) focused on upcoming regional grant calls. Don’t miss this chance to connect with potential partners and learn about valuable funding opportunities!



**University
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Digital Humanities Lab I RISE Day | September 25 | Spalenberg 65, Basel

Come by for a great opportunity to talk with PIs and team members from the Digital Humanities Labs's current research projects. Get to know the high-end 2-D, 3-D and motion picture digitization facilities at Spalenberg 65. Experience how the latest in natural language processing, augmented reality and gaming technology changes our ways of interacting with cultural heritage. Register [here](#).



DBE Educational Integrity Event | September 26, 16.30 o'clock | DBE Science Lounge

The DBE Integrity Commission kindly invites you to join its first Interactive Educational Event on September 26, in the DBE Science Lounge, Allschwil. Prof. Eva Scheurer will give an input about rights and duties in academic writing followed by a discussion among all participants. The Integrity Commission would appreciate it welcome as many DBE principal investigators as possible (also those working at USB and UKBB), as the event concerns them and their leadership role in academic writing.



Green Lab Workshop | October 24, 9:00-10:45 | ZLF, Seminar Room 2nd Floor

Sustainability Office in partnership with the Department of Biomedicine are organizing a [second workshop on the topic of sustainability in laboratories](#). Invited are all researchers and technicians working in or with Labs, with interest in sustainability.



**SWITZERLAND
INNOVATION
PARK BASEL AREA**

After-hour connect 'data edition' | September 2, 17:00-18:30 | SIP Allschwil

Are you data scientist or are you dealing with ML/AI on a regular basis? Then join this get-together for an informal after-work drink to meet your fellow counterparts and share your thoughts and experiences around data. Register [here](#).

Pitch & Connect Event | September 19, 12:00-13:15 | SIP Allschwil

Join the "Pitch & Connect" series with inspiring presentation of two new residents Altamira Therapeutics and Midas Pharma followed by a networking lunch. Please register [here](#) by September 16.

Calls & Research Funding and Deadlines



**Swiss National
Science Foundation**

Project funding

The [project funding](#) scheme enables qualified researchers to independently carry out projects on topics and research objectives of their own choosing. Submission deadline: October 10, 2024.

Ambizione

[Ambizione](#) grants are aimed at young researchers who wish to conduct, manage and lead an independent project at a Swiss higher education institution. Submission deadline: November 1, 2024.

Investigator Initiated Clinical Trials (IICT) 2024

For the tenth time, the SNSF is launching a [call for clinical studies](#) on topics that are outside the industry focus. Submission deadline: November 1, 2024.

SPIRIT

[SPIRIT](#) facilitates knowledge exchange between researchers in Switzerland and researchers in a range of low- and middle-income countries. Submission deadline: November 5, 2024.

New Call – National Centres of Competence in Research (NCCRs)

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: February 2, 2025.

Check out the [SNSF website](#) for further calls.

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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