

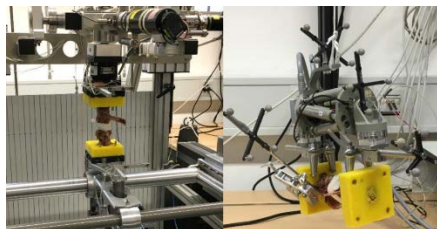
University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

February 2021

Congratulations



on the Christian Toggenburger Award for Dr. Studer, Prof. Büchler, Prof. Hasler, Prof. Rauter
They were rewarded with the Christian Toggenburger Award for the development of the SpineBot 2.0. project. The SpineBot is a programmable robotic device that performs intraoperative measurements of segmental stiffness of the spine in children with idiopathic scoliosis. Producing in vivo data from young patients with the corresponding pathology, it will contribute to the goal of fusionless correction of spinal deformities in the future. Please find more information about it at [DBE news](#).

Highlighted



Prof. Friederich as an advisor to the EU Expert Screening Panel in the field of medical devices
Prof. Niklaus Friederich has been appointed by the European Commission as an advisor for the expert panel in the field of medical devices. Prof. Friederich has to follow strict confidentiality rules, though. But the DBE is in the privileged position of having an expert in-house whom DBE members can consult on regulatory questions relating to medical devices if needed.

About us – We welcome



Alicia Durrer will start her PhD in March in the CIAN group led by Prof. Philippe Cattin. She will receive her MSc in Biomedical Engineering from the University of Basel by the end of February. For her master thesis, supervised by Dr. Jacqueline Romkes from the Laboratory for Movement Analysis at UKBB, she analyzed biomechanical aspects of stepping up and down a one-step stair, and generated an evaluation routine for future patients. In her PhD project, she focuses on domain adaption for the reduction of scanner induced artifacts in medical images.



Madina Kojanazarova has finished her Bachelor in Medical Engineering at Royal Institute of Technology (KTH) in Stockholm. After working in medical device regulatory affairs for 2 years in Stockholm, she joined the master program in Biomedical Engineering at University of Basel. She conducted her master thesis at CIAN on anomaly detection in MR images of the lungs. Madina will start her PhD in the Planning and Navigation group led by Prof. Philippe Cattin and will work on soft-tissue simulation for a visuo-haptic simulator.



Gabriel Zihlmann has started his PhD at the AMT Center under the supervision of Prof. Mathieu Sarraçanie. He obtained a MSc in Nanoscience, and most recently in Computer Science from the University of Basel. During his master thesis, Gabriel approached large data reconstruction in quantitative, model-based MRI from a multimedia retrieval and big data perspective, in a joint effort between the Department of Computer Science (DBIS) and the Department of Biomedical Engineering (AMT Center). His PhD project will extend this work, and pursue quantitative MRI at low magnetic field in an effort to improve early stroke detection.

Events



Universitäres
Zentrum für
Zahnmedizin
Basel

Save the date – April 16, 2021 – the 2nd UZB Research Day will definitely take place

The 2nd UZB Research Day will take place as a hybrid event, with live presence of different speakers and an auditorium corresponding to the current protective measures in regard to Covid19. In addition, a streaming platform is offered that will allow you to follow the event throughout the day in real-time. The information regarding login and the streaming platform will follow soon. Please register [here](#).



The 2nd virtual edition of MedtecLIVE & SUMMIT on April 20 – 22, 2021

The online event is a central meeting point of the European medical technology scene, for suppliers, developers and manufacturers, as well as research and application. The highlights of the [MedtecLIVE & SUMMIT](#) include its sophisticated matchmaking system featuring 1:1 video calls, the extensive MedtecSUMMIT programme based on nine topical thematic areas, and presentations by numerous exhibitors and experts. The Start-up Contest and a newly created talent award for young researchers bring fresh ideas to the programme.

Calls & Research Funding Deadlines



Propelling Grant – University of Basel

With the [Propelling Grant](#) the University of Basel has established a new funding opportunity to propel your groundbreaking & scientifically sound ideas towards future startup success. The fund will provide up to 50k CHF for a period of time up to 6 months, as non-dilutive funding. In addition, the Innovation Office offers skill-building, mentoring and access to a network of international partners. The call is always open. To be considered for the 1st interview session (on March 26, 2021), submit the proposal documents by March 4, 2021, 13.00 to propelling@unibas.ch.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation

Innosuisse – Swiss Innovation Agency

NTN Innovation Booster

From 2022-2025 Innosuisse will be able to support five to eight thematically different initiatives. The interested actors can apply by sending the application form on [this page](#) to the email address ktt.support@innosuisse.ch until March 26, 2021.



BRIDGE Proof of Concept
The seventeenth call for [BRIDGE Proof of Concept](#) projects is open until March 8, 2021. Young researchers who want to apply their research results and realize an innovative product or service can submit their project proposal.

COST projects in Switzerland 2021
The SNSF is launching the 2021 call for projects conducted in Switzerland within the scope of COST networks (COST Actions). The [COST programme](#) (European Cooperation in Science and Technology) aims to facilitate breakthrough scientific developments leading to new concepts and products. COST brings together European researchers and enables them to jointly develop their own ideas and new initiatives across all science and technology fields through trans-European cooperation.

Project funding
Under the [project funding scheme](#), qualified researchers define their research themes and objectives themselves and conduct their project under their own responsibility. The submission deadline is April 1, 2021.

R'Equip
The SNSF awards [R'Equip grants](#) in all scientific disciplines for the acquisition, modernisation and development of large-scale research equipment. The deadline for R'Equip applications is on May 2, 2021.



New EU Research & Innovation Programme "[Horizon Europe](#)" (2021-2027)
According to Euresearch the actual status of Switzerland in the new EU Research & Innovation Programme "Horizon Europe" is not yet clear. Switzerland can only start negotiations with the EU when "Horizon Europe" is published in spring 2021. Nevertheless: Researchers from Switzerland are highly encouraged to prepare their proposals as if Switzerland was already an associated country! Euresearch supports researchers during the entire application process: <https://euresearch.ch/>.

Good to know



Paternity-University of Basel
[Paid paternity](#) leave for the birth of one's own child will be 10 days as of January 1, 2021. The University of Basel will receive a paternity allowance for 10 days in the amount of 80% of the salary (but not more than CHF 196.- per day).

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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