



University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

September 2021

Events



The 7th DBE Research Day – Translational to the Bone!

On September 7, the 7th DBE Research Day took place with about 200 participants at the Zentrum für Lehre und Forschung at the University Hospital Basel. 25 speakers presented their current research and their plans for the future. In addition, 50 posters gave a broad and differentiated impression of the lively and constantly growing research culture at the DBE. More information, including pictures and videos of the «Translational Tandems» you can find on [DBE news](#). The 8th DBE Research Day will take place on **August 30, 2022 – save the date!**

Topic of the Year 2021: Better Medicine with Artificial Intelligence (AI)?

In 2021, the life science network BIOVALLEY is looking at the use of AI as well as the use of apps and wearables that promise better medicine. In this respect, two interesting [online events](#) will take place:

- **September 22, 2021, 19:00: Science Talk and Lecture**

Prof. Dr. H. Binder, University of Freiburg in Science Talk with Dr. V. Möckel. «Better medicine with artificial intelligence? What contribution can Deep Learning approaches and Medical Data Science make?» & Dr. P. Kellmeyer, University Medical Center Freiburg, «Human-KI - Cooperation for the Medicine of the Future».

- **November 10, 2021, 19:00: Lecture Series**

Priv.-Doz. Dr. A. Schmidt, University Medical Center Freiburg, «Endoscopic detection of precancerous lesions using artificial intelligence» & Prof. Dr. V. Kölzer, University Hospital Zurich and University of Zurich, «Image-based tumor classification by artificial intelligence».



SWISS MEDTECH

MDR & IVDR NATIONAL CONFERENCE – «Switzerland as a Third Country»

On October 19, 2022 the MDR & IVDR National Conference will be held physically on the current topic of «Switzerland as a Third Country». You can expect a varied programme with two plenary sessions, panel discussions, networking and six breakout sessions, each with a thematic focus. If you have already registered for the original MDR & IVDR conference 2020, no new registration is required. Otherwise, find the program with the registration [here](#).

Congratulations



to Dr. Stübinger and Dr. Madduri on the 1st Prize for Poster

Dr. Stefan Stübinger, Dr. Srinivas Madduri and their colleagues have won the poster awards of the 10th World Congress of the International Academy of Ceramic Implantology in Las Vegas. The poster promotes the use of ceramic dental implants with sinusoidal structures of 25 and 50 µm engraved on implants generated by ceramic injection molding. Find more about it [here](#).



to all the prize winners at the 7th DBE Research Day

This year in addition to the traditional prizes for the three best DBE Research Day posters, a prize for the best Course of the Master's Program as well as for the best Master's Thesis were awarded. Please find the winners including more information at [DBE news](#).



to Celine Berger on the 3rd Price for her Master Thesis

Celine Berger, currently enrolled as PhD student in the «Forensic Medicine & Imaging Research Group» of Claudia Lenz, has [won the third price from the Medical Faculty for her Master Thesis](#). Celine Berger was a student in the first year group of the MSc in Biomedical Engineering at DBE. The title of the master thesis was «Post Mortem Temperature and its Effect on Quantitative Magnetic Resonance Imaging».

About us – we welcome



Michelle Gwerder, who started her PhD in the research group «Biomechanics of Movement» led by Prof. Elke Viehweger in collaboration with Prof. William Taylor at ETH Zürich. Michelle holds a master degree in Health Science and Technology and she is looking at gait development and dynamic stability in children with idiopathic toe walking and cerebral palsy. Her goal is to examine the change in dynamic stability after intervention in these children.



Regine Lohss, who started her PhD also in the research group «Biomechanics of Movement» led by Prof. Elke Viehweger and Prof. Reinald Brunner from the UKBB. Regine conducted her master thesis at the Laboratory for Biomechanics and Biomaterials (Hannover Medical School, Germany) about the impact of femoral offset restoration in total hip arthroplasty on postoperative gait kinematics. During her PhD, she will focus on toe-walking behavior and fear-of-falling in children with cerebral palsy using 3D marker-based motion capture combined with virtual reality.

Calls & Research Funding Deadlines



BRCCH – Principal Investigator Initiative Call for Applications (PII)

The Botnar Research Centre for Child Health (BRCCH) is launching the [Principal Investigator Initiative \(PII\)](#). The call seeks translational research projects that deliver novel innovations across paediatric health diagnosis, disease treatment and prevention. Projects must address at least one of the following topics: «Paediatric Digital Health», «Advanced Bioengineering for Paediatric Medicine», «Paediatric Medical Devices», «Ethics, Policy and Implementation Research in Paediatric Health». The deadline for the letter of intent is October 1, 2021 and the deadline for the full application is November 5, 2021.



Project funding

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

Agora

The [Agora scheme](#) aims to promote the spread of knowledge, as well as the exchange of views and perspectives about scientific research. It therefore encourages projects involving two-way processes - with interaction and listening - which generate dialogues between researchers and the public. The submission deadline is October 15, 2021. In addition to regular Agora projects, researchers can submit rolling call projects with budgets of up to 50,000 francs at any time.

Ambizione

[Ambizione](#) grants are aimed at young researchers who wish to conduct, manage and lead an independent project at a Swiss higher education institution. An Ambizione grant covers the grantee's salary and the funds needed to carry out the project. An Ambizione project grant, however, comprises only project funds. Submission deadline: November 1, 2021.

PRIMA

[PRIMA](#) grants are aimed at outstanding women researchers who show great potential and hope to become professors. The PRIMA grantees will conduct an independent research project with their own team at a Swiss research institution. Submission deadline: November 1, 2021.

Good to know



SNSF charged with conducting transitional measures for Horizon Europe

Due to Switzerland's non-association to Horizon Europe, the Federal Council has asked the SNSF to carry out transitional measures for researchers in Switzerland. Find more [here](#).

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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