



University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

January 2021

Highlighted



COXEM tabletop electron microscope available for interested DBE-scientists

The company Gloor Instruments AG in Kloten, Switzerland provided the [COXEM tabletop electron microscope](#) on loan for three months. After students from Prof. Bert Müller's team have already used the instrument at the supplier's site, it is now available for the thesis projects at DBE to characterize the topography with great depth of focus as for example required for fibers. The EDX module incorporated allows for the determination of the composition down to about 1% and therefore complements the tomography core facility. Interested DBE-scientists can fix dates for usage via Dr. Georg Schulz. The DBE has earmarked finances to buy such an electron microscope in 2021.



AMT Center as invited speakers to the Siemens Magnetom World Summit

Profs. Najat Salameh and Mathieu Sarracanie were invited speakers to the Siemens Magnetom World Summit, a virtual platform where users around the globe could learn about the newest advances in MR, discuss and exchange information regarding MRI future developments and perspective. In this context they presented the AMT Center with a live demo, and discussed low-field MRI and related challenges for more accessible diagnosis. [Here](#) you find their video, please go to the section "Accessible MRI. Serving Underserved Populations" and scroll right to the second entry.

Congratulations



to Prof. Najat Salameh on the confirmed continuation of her ongoing SNF project

Prof. Najat Salameh has been granted an additional 800.000 CHF by the SNSF for her ongoing project "[Interventional and susceptibility artefact free MRI](#)". The additional funding covers research for another two years about tackling the challenge of making MRI technology accessible in interventional medicine.



on the publication of two papers by ThInk Basel/RC2NB in <Brain>

Researchers of Translational Imaging in Neurology (ThInk @ DBE) and the Research Center for Clinical Neuroimmunology and Neuroscience Basel (RC2NB @ DKF) have published two papers at once in <Brain>, a prestigious high-impact (IF > 10) journal in clinical neurology and neuroscience. Please find more detailed information about the two papers at [DBE news](#).

Plant-based, ultra-soft, thin neural implants



on the founding of the new DBE Spin-Off Bottneuro AG

Bottneuro AG develops plant-based, ultra-thin neural implants for the spine and brain. Patients suffering from chronic neuropathic pain, Alzheimer's and other neurodegenerative diseases will benefit from the NENI® neuromodulation technology. Bottneuro AG – under the leadership of Dr. Bekim Osmani and Dr. Tino Töpfer, with Prof. Raphael Guzman acting as clinical expert – is a deep-tech spin-off company from the University of Basel with an IP portfolio related to the core polymer thin-film technology. Please find more information about Bottneuro AG at [DBE news](#).

About us – We welcome



Dr. Alessandro Cagol started as a PostDoc in the research group ThInk, led by Prof. Cristina Granziera. Dr. Cagol is a neurologist; he obtained his medical degree at the University of Padova (Padova, Italy) in 2016 and completed his neurology training at the University of Milan (Milan, Italy) in 2020. The main focus of his research is the application of magnetic resonance imaging to investigate the physiopathology of neuroinflammatory diseases, with special interest in multiple sclerosis.

Events



Dilemma of the Swiss and UK Medtech Industry in Europa - Webinar, February 17, 2021

The UK has left the EU common market on January 1, 2021. Additionally, Switzerland may be forced to accept the status of a third country for the EU common market in the Medtech industry if the Mutual Recognition Agreement (MRA) between Switzerland and the EU is not updated before May 26, 2021. For both countries, the question arises how to deal with this unique situation, what new national laws and regulations should be put in place and how not to damage the Medtech business in its wake. The [webinar](#) will take a closer look at how Switzerland and the UK are handling this situation and what they can learn from each other.



Unibas Online Info Market, March 11, 2021

At the [Online Info Market](#), you can find out about the various services and departments of the University of Basel at different market stalls. Log into the desired ZOOM meeting at the start time, get information from employees of the department and ask your personal questions. The links for the ZOOM meetings will be posted two weeks before the event. The event languages are German and English.



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1st DBE PhD-Day: Networking Event – See what other groups are doing!

Although this event is called PhD day, all members working at an institute of the DBE are cordially invited. The first DBE PhD Networking Event is set to take place on March 19, 2021 with the goal of bringing together researchers, students, and leaders of the department in an informal atmosphere to make new contacts and discover what expertise can be found within the department. Given the ongoing Covid-19 situation, the entire event is currently planned to take place virtually. Please register [here](#) until mid of February and find the [DBE PhD-Day schedule](#).

Calls & Research Funding Deadlines



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Innosuisse – Swiss Innovation Agency

Pre-Announcement for KIAT, South Korea and Innosuisse cooperation in 2021

The Korea Institute for Advancement of Technology (KIAT) and Innosuisse announce their collaboration for 2021 to fund joint innovation projects between Switzerland and South Korea. Research institutions and companies have the opportunity to submit a preproposal from February 1, 2021 to April 7, 2021. Please find more information about the announcement of the collaboration for 2021 [here](#).

Innosuisse Flagship Initiative - Launch of the first call

Create your flagship to stimulate systemic innovation and transdisciplinary collaboration. This initiative seeks to find solutions to current or future challenges relevant to a large part of the economy or society. Innosuisse has launched the first call for flagships in January 2021. In the field of Biomedical Engineering the subject "Coping with COVID-19 induced acceleration of digital transformation - Healthcare and Medical Technology" might be interesting to researchers at DBE. You will find all relevant information and documents regarding the call for proposals 2021 on the [Innosuisse webpage](#). The call for pre-proposals will close on March 31, 2021

CSL Behring
Biotherapies for Life™

CSL Behring RESEARCH ACCELERATION INITIATIVE (RAI) 2021 CALL

CSL RAI 2021 aims to fast-track discovery of innovative biotherapies through partnerships between CSL and global research organisations (e.g. University of Basel) in the therapeutic areas: Immunology, Hematology, Respiratory, Cardiovascular & Metabolic and Transplant. Successful applicants will receive up to USD 200k p.a. for up to 2 years (max USD 400k funding). Researchers who wish to apply are required to submit a 300 word online pre-application by March 12, 2021. The Innovation Office of the University of Basel, in partnership with CSL Behring, will organize an [online open information session](#) to learn more and ask questions directly to the program partner at February 3, 2021/15.30 to 17.30. For registration and more information please send an email to alessandro.mazzetti@unibas.ch.

**SWISS
MEDTECH
AWARD
2021**

Call for entries - Swiss Medtech Award 2021

2021 is the fourth year that the Swiss Medtech Award recognizes outstanding achievements in the Swiss medical technology industry. If you have a product or a solution which demonstrate a clear benefit for patients from the fields of invention, innovation and entrepreneurship, then seize the opportunity and take part in the competition to win 50.000 CHF. Please apply [here](#) before February 28, 2021.

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Fifth call for proposals for the funding scheme BRIDGE Discovery

The funding scheme [Bridge Discovery](#) is aimed at experienced researchers from all disciplines who wish to realize an innovation with great social or economic impact. They can submit a proposal on their own or as part of a consortium of up to three researchers. The project must be characterized by scientific excellence and a clear vision of a future application. As of now until March 1, 2021, interested researchers can submit a letter of intent, which is mandatory for the submission of a full Discovery application, via the mySNF platform.

ERA-NET NEURON JTC Call 2021

The newly launched call ERA-NET NEURON aims to facilitate multinational, collaborative research projects that will address important translational questions relating to the neurodevelopmental nature of neurological and mental disorders. Please find more about the conditions [here](#). The submission deadline is March 9, 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. The submission deadline is April 1, 2021.

**Horizon Europe
for Switzerland**

Register
today!

**National
Information
Event**

17. + 18.
02.2021

The Grants Office informs about the new European framework program Horizon Europe

The program "EIC Pathfinder" in Pillar 3 is the successor of the former "FET Open and FET Proactive" instruments (Horizon 2020). The information is still in the draft stage and the association of Switzerland to the EIC programs in Pillar 3 of Horizon Europe is not assured yet. Association is expected to be valid retroactively. *The Pathfinder* funded projects are foreseen to develop and deploy high risk innovations of all kind with a particular focus on breakthrough, market-creating and deep-tech innovations. *The Open Funding* is bottom-up, designed to enable support for any technologies and innovations that cut across different scientific, technological, sectoral and application fields or represent novel combinations (deadline is May 19, 2021). *The Challenge driven top-down* approach takes into account EU priorities for transitioning to a green, digital and healthy society (first deadline is October). **On February 17-18, 2021, Euresearch offers a Horizon Europe Launch event. Registration is open.** For more information please contact susanne.grandjean@unibas.ch from the Grants Office of the University of Basel.

Good to know

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Strong network for European research - Weave

Planning a research project with partners abroad? The SNSF and European research funders have signed a multilateral agreement to further simplify the submission of such proposals: [Weave](#). The SNSF already has bilateral Lead Agency agreements in place with various funding agencies. This means: a single funder is the Lead Agency for projects with international partners, either the SNSF or its partner agency abroad

Open research data: which data repositories can be used?

To support researchers in their search for suitable platforms, the SNSF has published a list of data repositories that meet the ORD policy criteria. Please find more about it [here](#).

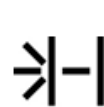
At the Department of Biomedical Engineering, we translate basic science and engineering into medical knowledge and healthcare innovations. We provide high quality education and capacity building for academics, clinicians, and industrial partners. The DBE is a joint venture of the University of Basel,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

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