



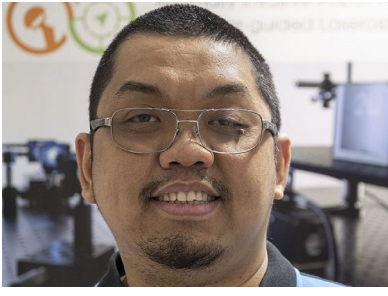
University
of Basel

Department of
Biomedical Engineering

DBE Newsletter

November 2021

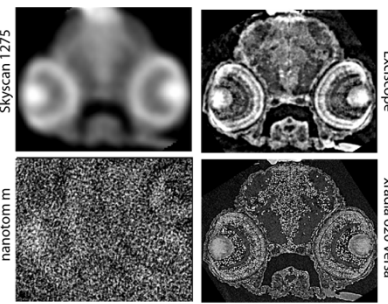
Congratulations



to Prof. Zam on his New Position as an Associate Professor of Bioengineering at the NYU
Prof. Azhar Zam, founding head of the Biomedical Laser and Optics Group (BLOG) at the MIRACLE project, will join New York University (NYU) next year as an Associate Professor of Bioengineering. Azhar Zam came to the Department of Biomedical Engineering in 2016 as assistant professor and founded the MIRACLE's laser research group BLOG. He has built BLOG from the ground up and made it one of the pillars of the MIRACLE project. We are sad to see Azhar leave us, but at the same time we are very happy for him that his work of the last years is bearing fruit – and that we will soon have another external collaboration partner at a prestigious institution in the field of biomedical engineering. We wish him only the best for his future. Find more details at [DBE news](#).



to PD Dr. Cordula Netzer on the Granted SNSF Project RoLSSroice
This collaborative project between DBE and ETHZ investigates the clinical observation that symptoms in patients with LSS are often not explained by radiological findings and these symptoms may reoccur even after surgery. For this project with the title "Role of spinal load in the pathophysiology of lumbar spinal stenosis: a translational approach combining clinical, functional and radiological parameters, in vivo biomechanical experiments and advanced in silico musculoskeletal modeling" – in short RoLSSroice – the SNSF awarded 908 kSFR in total.



to Prof. Bert Müller and micro-CT consortium on the SNSF-R'Equip Grant
The Core Facility MiNa (Micro & Nano Tomography) under the technical direction of Dr. Georg Schulz can look forward to the expansion of its infrastructure in the near future: The SNSF approved a contribution of 856 kSFR to purchase an innovative micro-CT. The SNSF amount will be matched by contributions from the infrastructure funds of the University of Basel, the Natural History Museum Basel, the DBE and institutional members of the consortium. The bidding process and acquisition is expected to be completed by the end of 2022 so that the equipment can be put into operation at the DBE's new location, the GRID in early 2023.



on the Grant Extension and New Grant for Prof. Granziera
Prof. Cristina Granziera, Senior Physician in Neurology and Head of the Translational Imaging in Neurology (ThINK) research group in the DBE and RC2NB, has been awarded a 2-year extension to her SNF-funded professorship in recognition of her achievements to date and a grant for a project called "MSxplain: Explaining AI decisions in personalized healthcare: towards integration of deep learning into diagnosis and treatment planning for Multiple Sclerosis". More details about it are at [DBE news](#).



to Dr. Reina Ayde and Dr. Ferda Canbaz on their Grant for Junior Researchers
Dr. Reina Ayde and Dr. Ferda Canbaz have been granted with 50.000 CHF from the University of Basel Research Fund for Junior Researchers. Dr. Ayde received the grant for her project "High fidelity deep learning reconstruction for fast low field MRI" and Dr. Canbaz for a project seeking for a new laser material with the title "A spectroscopic study to determine thulium (Tm3+)/dysprosium (Dy3+) concentrations in fluoride crystals: An alternative approach to obtain 3 µm laser operation".

About us – Changes in the DBE's executive board



Thank you to Ludwig Prof. Kappos & Prof. Oliver Bieri for their Highly Valued Contributions
At the DBE Assembly on November 17, 2021, [Prof. Ludwig Kappos and Prof. Oliver Bieri](#) stepped down from the DBE Executive Board after two terms of service during which they contributed significantly to the rapid development of our department. The members of the Assembly thanked them for their commitment to the DBE and their valuable input over the past years.



Congratulations to Prof. Eva Scheurer & Prof. Cristina Granziera on their Election!
[Prof. Eva Scheurer and Prof. Cristina Granziera](#) were elected to take the seats of the Profs. Kappos and Bieri. As there were three highly qualified women standing for election for these two places on the Board, the outcome of the election was extremely close, as all three could have very competently represented the concerns of the members of the DBE. With this change, there is gender parity on the DBE Board.

About us – We welcome



four new colleagues of the Smart Implants group:
2nd: **Dr. Francesco Santarella**, Researcher, Research Focal Point: Bioprinting;
4th: **Giovanni Cunha**, PhD Candidate (Visiting), Research Focal Point: Finite Element Analysis;
5th: **Paridokht Zarean**, Researcher, Research Focal Point: Patient Specific Implants;
6th: **Parichehr Zarean**, Researcher, Research Focal Point: Bioprinting.

Calls & Research Funding Deadlines



Swiss Medtech Award 2022
The competition for the [Swiss Medtech Award 2022](#) has been launched. It is the fifth time that Swiss Medtech and its donors reward outstanding achievements in the Swiss medical technology industry. The jury is looking for candidates from the fields of invention, innovation and entrepreneurship whose products or solutions demonstrate a clear benefit for patients. All complete entries received before January 30, 2022 will be considered for the competition.



**University
of Basel**

Research Fund Junior Researchers

The University of Basel promotes the academic careers of outstanding junior researchers by [awarding grants from the research fund](#). The call for applications is aimed at junior researchers at the University of Basel who wish to pursue an academic career and who have already distinguished themselves through their outstanding achievements. Submission deadline: February 1 & September 1, 2022.

Doc.Mobility(a)unibas grant

[Doc.Mobility\(a\)unibas](#) grants are aimed at doctoral students who wish to improve their scientific profile at a research institute abroad. The grants are awarded in all disciplines. Submission deadline: March 1 & September 1, 2022.

Academic Editing

With the funding instrument [“Academic Editing”](#) the University of Basel encourages its doctoral students and postdocs to enhance their scientific writing skills for research publications in English.



**Schweizerischer
Nationalfonds**

SNSF Starting Grants 2022 instead of ERC and Eccellenza

The SNSF Starting Grants 2022 target researchers who wanted to apply for a 2022 ERC Starting Grant or for an SNSF Eccellenza Professorial Fellowship. Consequently, there will be no Eccellenza call 2022. Interested researchers have time to submit their proposal until February 1, 2022. The call document is [available on the SNSF website](#).

SNSF Swiss Postdoctoral Fellowships (SPF)

Grants for young researchers who want to have an expert scientific training and to develop their academic career in Switzerland. [The SNSF launched this scheme](#) on the government's behalf following Switzerland's non-association to Horizon Europe. Submission deadline: December 15, 2021.

JSPS Postdoctoral Fellowships 2022

The program [“JSPS Postdoctoral Fellowships”](#) enables researchers in Switzerland to stay in Japan for 12 to 24 months. Submission deadline: January 12, 2022.

SNSF Scientific Image Competition 2022

The SNSF is once again holding its [scientific photo and video competition](#). Submission Deadline: January 31, 2022.

Postdoc.Mobility

[Postdoc.Mobility fellowships](#) support postdocs who wish to conduct a research stay abroad. Submission deadline: February 1, 2022.

Events



**Schweizerischer
Nationalfonds**

SNSF 2022 courses: expand your media skills

To most people, dealing confidently with the media does not come naturally. The SNSF offers special courses in which researchers can learn the necessary skills. New additions are a media training course for women and a course in English. Find the overview about the courses [here](#).



Universität
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Juristische
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Center for Life Sciences Law – Talk, January 26 and Workshop, January 27 & 28, 2022

The Center for Life Sciences Law (ZLSR) at the Law Faculty of the University of Basel invites you to two events. After the public talk “Desire for children without limits?”, representatives from science, practice and society will discuss questions concerning a possible amendment of the Reproductive Medicine Act (FMedG) in the [two-part workshop “Reproductive medicine for all?”](#). Please find the registration including the program [here](#).



IMPACT
SWISS IMPLEMENTATION SCIENCE NETWORK

2nd Conference of the Swiss Implementation Science Network (IMPACT)

The 2nd IMPACT Conference [“Moving towards Impact - Implementation Science in Switzerland”](#) will take place on February 9 – 11, 2022, partly as a hybrid and partly as a virtual event. Join the prime Swiss interdisciplinary platform for implementation science and take advantage of the opportunity to exchange ideas with experts in the field. Register [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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