

DBE Newsletter

June 2018

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Success



Dr. Simon Andermatt and Simon Pezold of CIAN's image segmentation group at DBE have successfully attracted a grant from the 2018 call of Novartis' [FreeNovation funding program](#).

The project "Learning to Segment Pathology" aims for a novel, disease-agnostic machine learning approach to segment (i.e. delineate) pathological regions in patient images. While such an approach usually requires vast amounts of manually segmented samples for training, the proposed setup is intended to learn pathology segmentation by itself, solely given exemplary images showing healthy and diseased subjects, respectively. In this way, the need for manual intervention may be reduced substantially in the method's potential fields of application, such as drug trials and clinical practice.

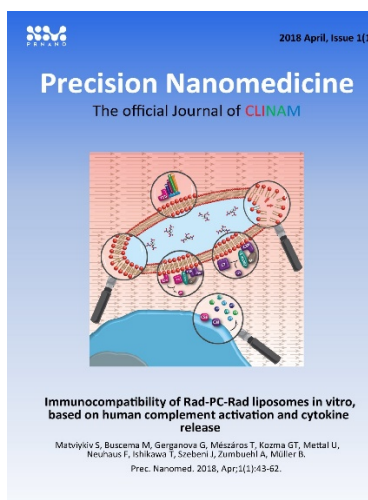
Congratulations and best success for the project!



DBE Summer School 2018

Organized by the PhD Program in Biomedical Engineering and the MIRACLE project this years' DBE Summer School 2018 took place from 03.06.2018 to 08.06.2018 at Zschokke house in Engelberg. The Summer School focused on "More than just surgery: laser, robots, intuitive navigation, and smart technologies". Around 35 students actively participated in the inspiring lectures of the following leading scholars in their field: Prof. Jean-Pierre Merlet (INRIA, Sophia-Antipolis, France), Prof. Steven Jacques (Tufts University, USA), Prof. Thomas Haslwanter (University of Applied Sciences, Upper Austria, Austria) and Prof. Sarthak Misra (University of Twente / University of Groningen, Netherlands).

Thanks to all participants and organisers for making this event so successful!



The new journal [Precision Nanomedicine](#) in its online version, is issued. Prof. Dr. Bert Müller, Thomas Straumann Chair for Materials Science in Medicine, is the only Swiss researcher, who serves as Editor of the journal.

Precision Nanomedicine is a publication promoted by the European Society of Nanomedicine (ESNAM for its acronym in English), the European Nanomedicine Foundation and the Conference of Clinical Nanomedicine (CLINAM). It was born with the aim of bringing together the most important opinion leaders in this growing field, disseminating the concept of nanomedicine and promoting its application in the clinical field in a personalized way.

“The launch of the journal occurs at a very opportune time. Interdisciplinary teams are going to employ nano-science and -technology for the benefit of patients, by integrating nanometer-size components of drugs and medical implants into preclinical and clinical trials.” says Professor Müller.



Prof. Pablo Sinues, Botnar-Professor at the University Children’s Hospital Basel and DBE group leader, has been appointed as an [Innosuisse Expert](#).

Innosuisse is the Swiss Innovation Agency (formerly known as KTI). The experts support the Innovation Council in assessing funding applications and supporting projects.

Congratulations to this appointment!

Media



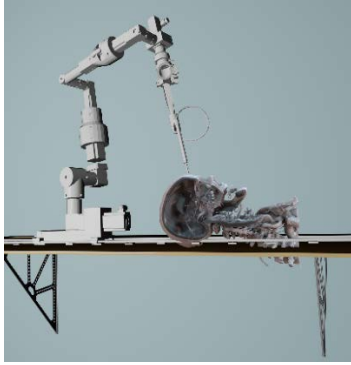
Switzerland Innovation Park Basel Area interviewed Prof. Philippe Cattin, DBE Head and Head of the Center for medical Image Analysis & Navigation, to discuss topics ranging from research in the MIRACLE project to the development of the department. Please find the interview [here](#).



Marek Zelechowski, PhD student in the MIRACLE project, participated in a video on his experiences at the University of Basel and our department. Thank you for taking the time and for presenting the DBE so nicely, Marek!

Please find the video [here](#).

Announcements



As announced, this year's DBE Research Day will take place on September 5, 2018. Please feel free to inform your academic collaborators and industry partners to join us at the Zentrum für Lehre und Forschung @ USB. The [registration is open](#). The program will range from laser & robotics, imaging and image analysis to a presentation by a member of the Institute of Forensic Medicine.

Given that this is a public event, make sure to not present developments that still need patent protection. The DBE Research Day is organized in cooperation with the Swiss Innovation Park Basel Area.



On June 27, 2018, the "Symposium on 3D Printing for Life Sciences 2018" will provide in-depth insight into bioprinting, the medical device industry, and today's clinical routine applications, including technologies for realizing polymeric, ceramic, or metallic printed matter, or even covering replication of complex biological systems with living cells.

It allows researchers as well as interested clinicians from the pharmaceutical and medical device industry to exchange ideas with dedicated experts in 3D Printing.

Please find the program and registration form [here](#).



The Europe-Taiwan Biotech Association organises a Career Workshop Event on June 30, 2018, in Basel. The [registration](#) is possible until June 27.

The presentations include the topics career path across different disciplines, accelerator programs for life science companies as well as for digital healthcare using AI/blockchain technologies, advice on pitching your business proposals to Venture Capitals and the perspective on working in a multinational company vs running an own company. Career opportunities in Taiwan will also be discussed.

The speakers include Chief Medical Officer and Head of Global Drug Development from Novartis, Accelerator program leaders from BaseLaunch and DayOne Initiative, CEO from HSE AG and Director of Taiwanese delegate in Economic division Switzerland.

As one of the founders of the Europe-Taiwan Biotech Association, Po-Jui Lu, doctoral student at DBE, would be particularly glad to welcome members of the Department of Biomedical Engineering.



The next round of the Transferable Skills program for doctoral students and postdocs will open on Wednesday, August 8, 2018 at 9.00 a.m.

If you are interested in one of the courses, make sure to apply without delay given that the program experiences a high demand.

The course program supports researchers during their dissertation period and prepares for a professional career inside or outside of

academia. Please find more information on the autumn 2018 program [here](#).

The Department of Biomedical Engineering bridges the gap between natural science and medicine in order to improve procedures and technologies for medical treatment. It is a joint venture of the University of Basel, the University Hospital Basel and the University Children's Hospital Basel.



University
of Basel



University Hospital
Basel

