



BAYHOST MedTech Workshop

27 – 28 June 2024

at OTH Regensburg

Room: to be announced

CONCEPT

The BAYHOST MedTech workshop aims at initiating scientific cooperation in medicine, medical technology, artificial intelligence in medicine, and health sciences. The workshop focuses on cooperation of Bavarian universities and universities of applied sciences with partners in Croatia, Poland, Czechia and other countries.

The idea to intensify scientific cooperation in medicine and medical technology between Bavaria and Croatia was born during a delegation visit of the University of Zagreb and the opening of the Croaticum at the University of Regensburg in 2023. The visit was accompanied by the Croatian Minister of Science and Education and the Director General of the Bavarian State Ministry of Science and the Arts. Medicine and medical technology as well as the intersection of artificial intelligence and medicine were identified as promising areas where Bavaria and Croatia had complementary research activities.

In June 2023 BAYHOST organized a delegation visit to Poland with focus on artificial intelligence which also included medical applications. The program had been supported by the newly opened Bavaria-Poland project office for medical technology. The project office is an initiative on behalf of the Bavarian State Chancellery that aims at strengthening Polish-German cooperation in the field of medical technology. It is located at the German-Polish Chamber of Industry and Commerce in Wrocław.

The Bavarian-Czech Academic Agency (BTHA) is affiliated with the Bavarian Academic Center for Central, Eastern and Southeastern Europe (BAYHOST) and acts as the central contact partner for all aspects of bilateral cooperation between Bavaria and the Czech Republic in the field of higher education.

PROGRAM

Thursday, 27 June 2024

9:15 | Registration

9:55 | Welcoming

Session 1: Medicine & Artificial Intelligence, Medical Technology

10:00 | Proposal for cooperation: Artificial tissue growth, autonomous tissue cultivation and stimulation, regenerative medicine

Speaker:

PD Dr. habil. Martin Vielreicher, Group Leader Tissue Engineering, Project leader "BioBone – Autonomous bioreactor system with multimodal sensory online monitoring and digital feedback control", Institute of Medical Biotechnology, Department Chemical and Biological Engineering, Friedrich-Alexander-Universität Erlangen-Nürnberg

The research group is looking for partners to provide artificial intelligence for automated control of artificial tissue growth ("digital twin").

Project presentation and discussion on opportunities for cooperation

10:30 Presentation of the Cluster of Excellency of Biomedical Engineering at Poznan University of Technology

Speaker:

dr hab. inż. Michał Rychlik, prof. PP, director of the cluster

Presentation of research group 1 of the Cluster of Excellency of Biomedical Engineering at Poznan University of Technology: automatic design of orthopedic equipment and prosthetic products, virtual prototyping and quick production of individualized medical products and therapeutical methods

Speaker:

tbc

11:00 Further proposal for cooperation (to be added)

11:30 Coffee break

12:00 Proposal for cooperation: Social science research, research on acceptance, and applied ethics with regard to applying technology and artificial intelligence in the health sector

Speaker:

Prof. Dr. phil. habil. Karsten Weber, Professor for Technology Assessment and AI-based Mobility, Director of the Regensburg Center for Health Sciences and Technology (RCHST), Faculty of Computer Science and Mathematics, OTH Regensburg

Presentation and discussion on opportunities for cooperation

12:30 Proposal for cooperation: Project on social health of dementia patients in nursing homes

Speakers:

Dr. Doris Gebhard, Didactic methods in sport and health, Department of Health and Sport Sciences, TUM School of Medicine and Health

Presentation and discussion on opportunities for cooperation

13:00 Lunch break

Session 2: Good practice examples

14:00 To be added.

14:30 Cooperation of Coburg University of Applied Sciences and Arts with the University of Split and the Mediterranean Institute for Life Sciences

Areas: cancer research, medical biomaterial development, application and AI-based evaluation of molecular high-throughput data (omics data) for personalized diagnostics and therapy selection

Speakers:

Prof. Dr. Stefan Kalkhof, Head of the Institute for Bioanalysis, Faculty of Applied Natural Sciences of

*HAW Coburg, and Deputy Head of the Department of Preclinical Development and Validation,
Fraunhofer Institute for Cell Therapy and Immunology – IZI Leipzig*

(...)

- 15:00 Presentation of IDEAS NCBR
IDEAS NCBR is a research and development center operating in the field of artificial intelligence, established by the National Centre for Research and Development in Poland. Our mission is to support the development of this technology in Poland by creating a platform connecting the academic and business communities.
Topic: Medical image data analysis (CT/RM/Digital Pathology), tumor detection
Speaker:
dr hab. inż. Żaneta Świdorska-Chadaaj
- 15:15 To be added
- 15:30 Coffee break
- 16:00 Further proposals for cooperation (to be added)
- 17:30 Break
- 18:30 Guided city tour
- 20:00 **COMMON DINNER**

Friday, 28 June 2024

Session 3: Medicine

- 9:30 Proposal for cooperation: Research on the prevention of respiratory infection diseases with focus on vaccinations
Speaker:
PD Dr. Manuel Krone, Deputy director, Infection Control and Antimicrobial Stewardship Unit, University Hospital Würzburg
Presentation and discussion on opportunities for cooperation
- 10:00 Further proposals for cooperation (to be added)
- 11:00 Coffee break
- 11:30 Proposal for cooperation: Influence of micro- and nanoplastics on humans
Speaker:
Prof. Dr. med. Dr. h.c. Friedrich Paulsen, HonFAS, Head Institute of Functional and Clinical Anatomy, Friedrich Alexander University Erlangen-Nürnberg
Presentation and discussion on opportunities for cooperation
- 12:00 Further proposals for cooperation (to be added)
- 13:00 Lunch break
- 14:00 Bilateral talks upon arrangement
- 15:30 End of the workshop

CONFERENCE LANGUAGE

The conference language is English.

COSTS

The participation is free of charge. Free accommodation can be provided for a certain number of participants (to be indicated in the application form).

DIRECTIONS

<https://www.oth-regensburg.de/en/the-oth/standorte-und-lageplaene>

WI-FI ACCESS FOR GUESTS

Establishment of the connection with BayernWLAN Hotspot

1. Turn on Wi-Fi on your device and select in the Wi-Fi settings the WLAN network (SSID) @BayernWLAN
2. Open a web page in your browser, if it does not automatically open (depending on the operating system and device).
3. Accept the terms of use on the home page of the hotspot. Click on "Connect" | "Verbinden"

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