Program

BIH Charité Clinician Scientist Symposium

Villa Elisabeth
Invalidenstr. 3, 10115 Berlin

June 20–21, 2024
Thursday, June 20th 2024

9:00 – 9:30 am  Registration and Get-Together

9:30 – 9:40 am  Welcome

Nathalie Huber | Head of BIH Biomedical Innovation Academy (BIA) and of BIH Charité Clinician Scientist Office, Berlin Institute of Health at Charité (BIH)

Iwan Meij | Head of BIH Biomedical Innovation Academy (BIA), Berlin Institute of Health at Charité (BIH)

Il-Kang Na | Director BIH Charité Clinician Scientist Program and Principal Investigator, Berlin Institute of Health at Charité (BIH), Senior physician, Department of Hematology, Oncology and Tumor Immunology, Charité – Universitätsmedizin Berlin

9:40 – 9:45 am  Greetings

Ulrich Kintscher | Vice Dean of Research (Clinical Affairs) and Director of the Institute of Pharmacology, Charité – Universitätsmedizin Berlin

Session I: »From Advanced Diagnostics ...«

Chairs

Heiko Tzschätzsch | Professor of Image Science and physicist, Institute of Medical Informatics, Charité – Universitätsmedizin Berlin

Frank Tacke | Clinic Director, Department of Hepatology and Gastroenterology, Charité – Universitätsmedizin Berlin

9:45 – 10:25 am  Rolf Otto Reiter | Fellow BIH Charité Digital Clinician Scientist Program, Department of Radiology (including Pediatric Radiology), Charité – Universitätsmedizin Berlin

»Applications of MR Elastography in Prostate Cancer, Inflammatory Bowel Disease, and Chronic Liver Disease: Part 1«

Richard Ehmann | Professor of Radiology, Department of Radiology and Department of Physiology & Biomedical Engineering, Mayo Clinic, United States of America

»Applications of MR Elastography in Prostate Cancer, Inflammatory Bowel Disease, and Chronic Liver Disease: Part 2«
10:25 – 11:05 am

Jana Ihlow | Fellow BIH Charité Clinician Scientist Program, Institute of Pathology, Charité – Universitätsmedizin Berlin

Jens Rittscher | Professor of Engineering Science, Nuffield Department of Medicine, University of Oxford, United Kingdom

Joint presentation on »Computational methods for analyzing bone marrow trephines«

11:05 – 11:45 am

Akira-Sebastian Poncette | Fellow BIH Charité Digital Clinician Scientist Program, Deputy Director of the Institute for Medical Informatics, Department of Anesthesiology and Intensive Care Medicine, Charité – Universitätsmedizin Berlin

»Unlocking the Potential of Health Monitoring: A Focus on Barriers and Enablers«

Halley Ruppel | Research Assistant Professor, Department of Family and Community Health, University of Pennsylvania School of Nursing, United States of America

»Bridging Technology and Care: Elevating Data Equity in Health Monitoring«

11:45 – 1:00 pm

Lunch Break and »Meet the BIH Charité Clinician Scientist Office«

Moderated Poster Session

1:00 – 2:00 pm

(D)CSP Poster Session

Moderator

René Hägerling | Fellow of the Clinician Scientist »Excellence-Track«, Institute of Medial and Human Genetics, Charité – Universitätsmedizin Berlin

Michael Kaminski | Fellow of the Clinician Scientist »Excellence-Track«, Department of Nephrology und Intensive Medical Care, Charité – Universitätsmedizin Berlin

Poster Session

Marie Schafstedde | Department of Congenital Heart Disease – Pediatric Cardiology (DHZB) and Institute of Computer-assisted Cardiovascular Medicine Charité – Universitätsmedizin Berlin

»Precision medicine in cardiology: model-based therapy planning for patients with complex heart valve diseases«

Rolf Otto Reiter | Department of Radiology (including Pediatric Radiology), Charité – Universitätsmedizin Berlin

»Wideband dispersion MR elastography to detect hepatic inflammation and fibrosis«
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**Poster Session (Continued)**

**Lisa Rosenthal** | Department of Congenital Heart Disease – Pediatric Cardiology, Deutsches Herzzentrum der Charité (DHZC)
»Application-based remote in-home monitoring for infants with single ventricle heart disease and shunt- or duct-dependent pulmonary perfusion«

**Antonia Schulz** | Department of Congenital Heart Surgery – Pediatric Heart Surgery, Deutsches Herzzentrum der Charité (DHZC)
»tba«

**Timo Alexander Auer** | Department of Radiology (including Pediatric Radiology), Charité – Universitätsmedizin Berlin
»Non-invasive MRI subclassification of Hepatocellular Carcinoma – HepCaSt-Project«

**Frederik Bartels** | Department of Neurology with Experimental Neurology, Charité – Universitätsmedizin Berlin
»Brain MRI Lesions and Atrophy in Anti-NMDA-Receptor Encephalitis«

**Nick Lasse Beetz** | Department of Radiology (including Pediatric Radiology) Charité – Universitätsmedizin Berlin
»PACS-integrated, AI-based Monitoring of Body Composition in Patients with Metastatic Castration-Resistant Prostate Cancer undergoing Radioligand Therapy with [177Lu]Lu-PSMA«

**Karl Hillebrandt** | Department of Surgery, Charité – Universitätsmedizin Berlin
»A Decellularized Matrix-Based Tumor Model for Primary and Secondary Hepatic Malignancies«

**Carl Christoph Goetzke** | Department of Pediatric Respiratory Medicine, Immunology and Critical Care Medicine, Charité – Universitätsmedizin Berlin
»TGF-β-induced immune anergy is a hallmark of Multisystem Inflammatory Syndrome in children«

**Aitomi Bittner** | Department of Hematology, Oncology and Cancer Immunology, Charité – Universitätsmedizin Berlin
»Senolysis-associated and ImbruVeRCHOP-like treatment responses in human DLBCL models«

**Matthäus Felsenstein** | Department of Surgery, Charité – Universitätsmedizin Berlin
»The functional role and clinical relevance of extrachromosomal DNA (ecDNA) for pancreatic carcinogenesis«
**Verena Klämbt** | Department of Pediatrics, Division of Gastroenterology, Nephrology and Metabolic Diseases, Charité – Universitätsmedizin Berlin
»*Genome editing as a treatment option for autosomal dominant tubulointerstitial kidney disease«

**Michael Launspach** | Department of Pediatric Oncology and Hematology, Charité – Universitätsmedizin Berlin
»*Personalized CRISPR/Cas9 Gene Therapy to Alter the Tumor Microenvironment and Enhance CAR T Cell Therapy in Solid Tumors«

**Agata Mossakowski** | Department of Neurology with Experimental Neurology, Charité – Universitätsmedizin Berlin
»*A Novel Treatment Strategy in Myofibrillar Myopathy«

**Magdalena Danyel** | Institute of Medial and Human Genetics, Charité – Universitätsmedizin Berlin
»*Identification of BCAR1 as a novel candidate gene for hydrops fetalis and lower limb lymphedema«

**Lennart Pfannkuch** | Department of Pediatric Respiratory Medicine, Immunology and Critical Care Medicine, Charité – Universitätsmedizin Berlin
»*Insights into the role of ALPK1 in pulmonary immune regulation«

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2:00 – 3:20 pm **Impulse Talk and Roundtable Discussion:** »We can get it if we really want?! Joining efforts towards gender equality in academic medicine«

2:00 – 2:20 pm **Impulse Talk**

**Jutta Allmendinger** | President of the WZB Berlin Social Science Center and Professor of Sociology of Education and Labor Market Research at Humboldt-Universität zu Berlin

2:20 – 3:20 pm **Roundtable Discussion**

**Moderator**

**Martin Klatt** | Fellow BIH Charité Clinician Scientist Program, Department of Hematology, Oncology and Cancer Immunology, Charité – Universitätsmedizin Berlin
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Speakers

**Jutta Allmendinger** | President of the WZB Berlin Social Science Center and Professor of Sociology of Education and Labor Market Research at Humboldt-Universität zu Berlin

**Volkmar Falk** | Medical Director, Deutsches Herzzentrum der Charité (DHZC) and Director, Department of Cardiovascular and Thoracic Surgery.

**Mandy Mangler** | Chief Physician, Clinic for Obstetrics and Clinic for Gynecology, Vivantes Auguste-Viktoria-Klinikum

**Güliz Acker** | Alumna BIH Charité Clinician Scientist Program, Department of Neurosurgery (including Pediatric Neurosurgery), Charité – Universitätsmedizin Berlin

**Jan Braune** | Fellow Junior BIH Charité Clinician Scientist Program, Department of Hematology, Oncology and Cancer Immunology, Charité – Universitätsmedizin Berlin

3:20 – 3:45 pm  Coffee Break

Session II: »… to Improved Patient Care …«

Chairs

**Henryk Dreger** | Director (acting), Department of Cardiology, Angiology and Intensive Care Medicine, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin

**Katharina Schmitt** | Director Department of Psychology in Cardiac Medicine, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin

3:45 – 4:25 pm  Elise Siegert | Fellow BIH Charité Clinician Scientist Program, Department of Rheumatology and Clinical Immunology, Charité – Universitätsmedizin Berlin

»From Clinical Symptom to Ultrastructural Analysis: Muscle Disease in Systemic Sclerosis«

**Anjali Kusumbe** | Head of the Tissue and Tumour Microenvironments Group, MRC Weatherall Institute of Molecular Medicine, University of Oxford, United Kingdom

»Vascular Control of Ageing and Regeneration«
**PROGRAM**

4:25 – 5:05 pm  Moritz Blum | Fellow BIH Charité Junior Clinician Scientist Program, Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin  
> »Storytelling for Researchers – How to Create Powerful Narratives to Increase the Impact of Our Research«

5:05 – 5:15 pm  Raffle and Closing Remarks

5:15 – 5:45 pm  »Meet the Speakers«

5:45 – 6:00 pm  Break before the Awarding Ceremony

6:00 pm  Finger Food Buffet

6:45 – 6:50 pm  Welcome

6:50 – 7:00 pm  Nathalie Huber | Head of BIH Biomedical Innovation Academy (BIA) and of BIH Charité Clinician Scientist Office

Iwan Meij | Head of BIH Biomedical Innovation Academy (BIA)

Il-Kang Na | Director BIH Charité Clinician Scientist Program and Principle Investigator, Berlin Institute of Health at Charité (BIH), Senior physician, Department of Hematology, Oncology and Tumorimmunology, Charité – Universitätsmedizin Berlin

6:50 – 7:00 pm  Greetings

7:00 – 7:30 pm  Keynote Speech

Isabell Heuser-Collier | Senior Professor Department of Psychiatry and Neurosciences, Charité – Universitätsmedizin Berlin

7:30 – 8:45 pm  Award Ceremony
Friday, June 21st 2024

8:30 – 9:00 am  Registration and Get-Together

9:00 – 9:10 am  Welcome

Christopher Baum  |  Chairman of the Board of Directors of the Berlin Institute of Health at Charité (BIH) and Chief Translational Research Officer of Charité – Universitätsmedizin Berlin


9:10 – 09:30 am  Impulse Talk

Chloe Joyner  |  Founder and Chair of Trustees »Usher Kids«, United Kingdom

9:30 – 10:25 am  Roundtable Discussion

Moderator  Moritz Blum  |  Fellow BIH Charité Junior Clinician Scientist Program, Department of Cardiothoracic and Vascular Surgery, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin

Speakers  Sarah Weschke  |  Project team leader Patient & Stakeholder engagement, Berlin Institute of Health at Charité (BIH), Germany

Silke Lipinski  |  Coordinator of the Center for Patient and Public Involvement (PPI), German Center for Mental Health (DZPG), Clinical Psychology of Social Interaction group, Humboldt-Universität zu Berlin

Haider Warraich  |  Senior Clinical Advisor for Chronic Disease to the Commissioner, Associate Physician, Brigham and Women’s Hospital, United States of America

Chloe Joyner  |  Founder and Chair of Trustees »Usher Kids«, United Kingdom

Alexander Obbarius  |  Fellow BIH Charité Digital Clinician Scientist Program, Department of Psychosomatic Medicine, Charité – Universitätsmedizin Berlin
10:25 – 10:35 am  **Thomas Gazlig** | Head of Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)

»Charité BIH Innovation – the Joint Technology Transfer of Charité and BIH«

10:35 – 11:00 am  Coffee Break

11:00 – 12:15 pm  **Workshops**

1. **How to Increase the Impact of Your Research**

Charité BIH Innovation (CBI) is the joint technology transfer of Charité and BIH. We enable the transfer of your biomedical research results into new technologies, products or spin-offs. In the World Café format, we offer you the opportunity to find out about the offers and the steps to be taken in the transfer process. You will also learn about our two funding programs SPARK-BIH and BIH Digital Health Accelerator.

**Table 1: »IP & Licensing«**

Claudia Keil-Dieckmann | Head of IP&Licensing, Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)

Bettina Otto | Technology manager, Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)

**Table 2: »SPARK-BIH«**

Tanja Rosenmund | Head of SPARK BIH, Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)

**Table 3: »BIH Digital Health Accelerator«**

Claudia Kirchert | Personal advisor to the Head of Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)

**Table 4: »Match & Connect«**

Luise Roither | Head of Match&Connect, Charité BIH Innovation (CBI), Berlin Institute of Health at Charité (BIH)
2. Young BIH – Where is the Future of Medicine Heading?

What are the current problems in our healthcare system? Which challenges are we going to face in the future? In this interactive workshop with Professor Thun, Professor Hindricks and Ms. Schedel, we would like to discuss the current challenges and obtain hands-on insights from the domains of governance, digitalization and future science.

**Chairs**

Tharusan Thevathasan, Tobias Röschl & Isabel Mattig
Fellows BIH Charité (Digital) Clinician Scientist Program, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin

**Participants**

Sylvia Thun | Director Digital Medicine and Interoperability, Berlin Institute of Health at Charité (BIH), Germany and member of the Medical Committee of the Federal Government’s Science Council

Gerhard Hindricks | Medical Director (acting) of the Department of Cardiology, Angiology and Intensive Care Medicine and Chief Integration Officer, Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin and chair of the »Digital Health Committee« of the European Society of Cardiology (ESC)

Raphaela Schedel | Futurologist, Freie Universität Berlin and Clinic Shareholder
3. How to Succeed as a BIH Charité Clinician Scientist? Career Recommendations from Advanced BIH Charité Clinician Scientists

In this workshop, participants will gain insights into the career strategies of Fellows of the BIH Charité Advanced Clinician Scientist Pilot program from various departments of the Deutsches Herzzentrum der Charité (DHZC) and Charité – Universitätsmedizin Berlin. In a »World Café« format, the special features of successes and learning from failures, Dos and Don’ts, of stays abroad, (attempts at) grant writing and setting up an own working group, as well as initiating pre- and clinical studies will be discussed.

**Table 1: »Stay abroad«**
Bettina Heidecker & Tobias Penzkofer

**Table 2: »Grant writing and working group set-up«**
Jan Scheitz & Nathanael Raschzok

**Table 3: »Preclinical and clinical studies initiation«**
Federico Collettini & Felix Krenzien

12:15 – 1:30 pm Lunch Break
Friday, June 21st 2024

1:30 – 2:30 pm  »From Wear and Tear to Inflammation: How a Paradigm Shift is Changing Osteoarthritis Research and Therapy«

Speakers

Tobias Winkler | Senior physician and Section Head Department of Regenerative Orthopaedics and Trauma Surgery, Center for Musculoskeletal Surgery (CMSC), Charité – Universitätsmedizin Berlin
»The Struggle of Finding a Cure for Osteoarthritis«

Tazio Maleitzke | Alumnus BIH Charité Clinician Scientist Program, Center for Musculoskeletal Surgery, Charité
Julius Wolff Institute, Charité – Universitätsmedizin Berlin
Department of Orthopaedic Surgery, Copenhagen University
Hospital Hvidovre, Department of Clinical Medicine, University of Copenhagen
»Biomarkers in Osteoarthritis – Problem Solved?«

Johanna Bolander | Professor of Model Systems for Regenerative Therapies, AG Bolander, Berlin Institute of Health at Charité (BIH), Julius Wolff Institute, Berlin, Germany, imec, Leuven, Belgium
»How Trauma Affects Inflammation in Post-traumatic Osteoarthritis«

Anna Døssing | Clinical Assistant, Bispebjerg and Frederiksberg Hospital, The Parker Institute, Denmark
»Systemic treatment of Osteoarthritis – Old drugs new Targets«

Florian Fleckenstein | Fellow BIH Charité Clinician Scientist Program, Department of Radiology (including Pediatric Radiology), Charité – Universitätsmedizin Berlin
»Novel intraarterial treatments in the tug-of-war between inflammation, angio- and neurogenesis«
Session III: »... while Continuously Exploring Mechanistic Insights and Novel Therapeutics.«

**Chairs**

Claudia Spies | Medical Director Charité Center 7 and Director of the Department of Anesthesiology and Intensive Care Medicine CCM and CVK, Charité – Universitätsmedizin Berlin

Philipp Enghard | Senior Physician and Deputy Director Department of Nephrology and Medical Intensive Care Medicine CCM, Charité – Universitätsmedizin Berlin

**2:30 – 3:10 pm**

Messoud Ashina | Professor of Neurology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark

»The Intracellular Mechanisms of Migraine: From Bench to Bedside«

Bianca Raffaelli | Fellow BIH Charité Clinician Scientist Program, Department of Neurology and Experimental Neurology, Charité – Universitätsmedizin Berlin

»Exploring Alternative Pathways to CGRP«

**3:10 – 3:30 pm**

Coffee Break

**3:30 – 3:40 pm**

Raffle

**3:40 – 4:20 pm**

Mihnea-Paul Dragomir | Fellow BIH Charité Clinician Scientist Program, Institute of Pathology, Charité – Universitätsmedizin Berlin

»Non-coding diagnostic and therapeutic in cancer and sepsis«

George A. Calin | Professor in the Department of Translational Molecular Pathology, The University of Texas MD Anderson Cancer Center, United States of America

»About motifs, non-coding genome and therapeutics«

**4:20 – 5:00 pm**

Livius Penter | Fellow BIH Charité Digital Clinician Scientist Program, Department of Hematology, Oncology and Cancer Immunology CVK, Charité – Universitätsmedizin Berlin

»Tracking leukemia clonal evolution with single-cell genomics«

Caleb Lareau | Assistant Professor, The Caleb Lareau Lab, Memorial Sloan Kettering Cancer Center, United States of America »Methods and impact of identifying rare cells in single-cell genomics«
Friday, June 21st 2024

5:00 – 5:40 pm  Alexander Obbarius | Fellow BIH Charité Digital Clinician Scientist Program, Department of Psychosomatic Medicine, Charité – Universitätsmedizin Berlin  
»Just-in-time adaptive interventions – challenges and opportunities for the individualized treatment of chronic back pain«

Maria Böttche | Junior Professor, Clinical-Psychological Intervention, Freie Universität Berlin  
»Hard to reach – difficult to treat? Internet-based interventions for high-risk individuals with PTSD«

5:40 – 5:50 pm  Closing Remarks

5:50 pm  End of Event