Thursday 22.02.2018

15:00 Welcome
Jürgen Schüttler
Dean of the Medical Faculty, FAU
Joachim Horneygger
President of the FAU
Hans-Ulrich Prokosch
Head of the MIRACUM Consortium, Chair of Medical Informatics, FAU

Session 1
Chair: Martin Boeker
Institute of Medical Biometry and Statistics, Albert-Ludwigs-Universität Freiburg
15:10 The role of big data analytics in the evolution of clinical trials
Lisa McShane
Division of Cancer Treatment & Diagnosis NIH, Bethesda, USA

15:45 The use of SNOMED CT in the BMBF MI-I: Opportunities, Challenges and Requirements
Stefan Schulz
Institute of Medical Informatics, Statistics and Documentation, Medical University Graz, Graz, Austria

16:20 FHIR – the answer to the interoperability questions of the BMBF MI-I
Kai U. Heitmann
HL7 Deutschland / Heitmann Consulting and Services / Gefyra GmbH, Köln

16:55 Coffee Break

Session 2
Chair: Christian Haverkamp
Department IT Processes, University Hospital Freiburg
17:20 The role of neuroimaging in the medical component of the Human Brain Project
Richard Frackowiak
Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

17:55 Ambient and wearable computing for digital health – A new Chair at FAU
Oliver Amft
Chair of eHealth / mHealth, FAU

18:30 Day Closure

Friday 23.02.2018

Session 3
Chair: Till Acker
Neuropathology, University Hospital Gießen
09:00 Results from ONDSI and perspectives for international data sharing projects
George Hripcsak
Biomedical Informatics, Columbia University, New York City, USA

09:30 Problems with exchanging medical data: Experiences in the Netherlands
Arie Hasman
Academic Medical Center of the University of Amsterdam, Amsterdam, The Netherlands

10:10 Facilitating precision oncology through enterprise-level implementation of next generation sequencing tumor panels
Ahmet Zehir
Clinical Bioinformatics, Memorial Sloan Kettering Cancer Center, New York City, USA

10:45 Coffee Break

Session 4
Chair: Jürgen Schüttler
Medical Faculty, FAU
11:05 The national steering committee (NSC) of the BMBF MI-I, the NSC central office and the NSC working groups
Sebastian Semler
TMF e.V., Berlin

11:25 Status and activities of the NSC working group „Interoperability“
Thomas Ganslandt
Medical Centre for Information and Communication Technology, University Hospital Erlangen

11:45 Status and activities of the NSC working groups „Data Sharing“ and „Consent“
Manfred Brunner
Data Protection Officer, University Hospital Erlangen

Session 5
Chair: Hans-Ulrich Prokosch
Chair of Medical Informatics, FAU
12:05 Components of the MIRACUM Data Integration Centres (DIC) and current status
Hans-Ulrich Prokosch
Chair of Medical Informatics, FAU

12:25 Our DIC – what we can do already (exemplary: stroke data analysis)
Christian Haverkamp
Department IT Processes, University Hospital Freiburg

12:35 Our DIC – what we can do already (exemplary: colorectal cancer analysis)
Martin Sedlmayr
Chair of Medical Informatics, FAU

12:45 Lunch Break

20:00 MIRACUM PARTY (featuring GMDS-Allstars)
Redoutensaal, Theaterplatz 1, Erlangen

Session 6
Chair: Johannes Bernarding
Institute of Biometry and Medical Informatics, Otto-von-Guericke-University Magdeburg

13:45 Use Case 1 – Study registries and patient recruitment
Hans-Ulrich Prokosch
Chair of Medical Informatics, FAU

14:00 Use Case 2 – Prediction models for Asthma/COPD and brain tumours
Harald Binder
Institute of Medical Biometry and Statistics, Albert-Ludwigs-Universität Freiburg

14:15 Use Case 3 – Precision medicine: example molecular tumour boards (first results and planning)
Melanie Börries
Institute for Molecular Medicine and Cellular Research, Albert-Ludwigs-Universität Freiburg

Session 7
Chair: Michael Neumaier
Institute for Clinical Chemistry, Medical Faculty Mannheim of the University Heidelberg

14:30 Bypassing all Trouble: Direct Access to Patients’ Data Treasures
Frank Ückert
DKFZ, Heidelberg

14:55 MIRACUM master programme across federal borders
Paul Schmücker / Keywan Sohrabi
University of Applied Sciences Mannheim / University of Applied Sciences Mittelhessen

15:15 Computational epigenomics in health and disease
Ho-Ryun Chung
Max Planck Institute for Molecular Genetics, Berlin

15:40 Symposium Closure
Dear colleagues,

THE MIRACUM CONSORTIUM (Medical Informatics in Research and Care in University Medicine) welcomes you to its KICK-OFF MEETING in Erlangen.

In July 2017, the BMBF announced that MIRACUM is one of four funded consortia with a financial volume of €32 Mio for the coming four years. Spread over five German states, eight universities with eight university hospitals, two universities of applied sciences and one industrial partner cooperate with joint data integration centre (DIC) developments and clinical/research use cases to prove the DIC value.

In the symposium sessions, we present top-ranking scientists and experts to first illustrate the international state of the art in the field of data sharing networks and then describe the MIRACUM concepts and show first results.

ON THURSDAY AFTERNOON AND FRIDAY MORNING, the members of our International Scientific Advisory Board give insight in their views and experiences with dedicated challenges MIRACUM will tackle.

ON FRIDAY NOON, the programme illuminates the concrete scientific topics that we will approach in the upcoming four years:

THE SPOTLIGHT of the initiative is on the data integration centres that will be embedded in the local hospital IT-infrastructures and will facilitate the integration of EHR and research data and the shared usage of data within the consortia university hospitals for diverse analytics and machine learning aspects. Three use cases (patient recruitment, prediction models, precision medicine/molecular tumour boards) shall prove the effectivity of the innovative infrastructure with direct and prompt improvement of patient care.

Data protection and data security are given top priority in this venture. Further we will elaborate a programme for strengthening medical informatics by extending the academic offer, including new professorships in the field of medical informatics, a novel, innovative master programme and personnel training.

We wish you an enlightening event in Erlangen!

Prof. Dr. H.-U. Prokosch
MIRACUM Coordinator

Prof. Dr. T. Acker
MIRACUM Deputy Coordinator

Prof. Dr. h.c. J. Schüttler
Dean of the Medical Faculty, FAU

Free Attendance. Please register here:
http://www.miracum.org/symposium-2018/registration/

THE MIRACUM CONSORTIUM
Medical Informatics in Research and Care in University Medicine

Parking
Parkhaus Uni-Klinik Schwabachanlage 14
access via Palmsanlage

Parking fees
Per hour 1 €
Daily rate 10 €

Contact
Dr. Stefanie Knöpfel
Tel: +49 (0)9131-85 26758
stefanie.knoepfel@fau.de
www.miracum.org