



Bonn-Aachen International Center for Information Technology (B-IT) Industry Symposium on “AI in the Life Sciences”

Preliminary Agenda Symposium

Day 1 – June 26, 2023

10:00 - 12:00	Registration	B-IT Foyer / Room 0.109
12:00 - 13:00	Light lunch – Get together	
13:00 - 13:10	Welcome and setting the stage	Prof. Dr. Martin Hofmann-Apitius , Fraunhofer SCAI Prof. Dr. Jürgen Bajorath University of Bonn
13:10 - 13:20	Welcome by the B-IT Director	Prof. Dr. Stefan Wrobel
13:20 - 13:30	Welcome by the Rector of the University of Bonn	Prof. Dr. Dr. h. c. Michael Hoch
13:30 - 14:00	Innovation and Freedom – Political pragmatism in Innovation Policies	Thomas Sattelberger Former Parliamentary State Secretary, German Federal Ministry of Education and Research
KEYNOTE 1: MACHINE LEARNING AND REVOLUTIONIZING HEALTHCARE		
14:00 - 14:45	Title to be announced	Prof. Dr. Mihaela van der Schaar Cambridge Centre for AI in Medicine University of Cambridge (UK)
14:45 - 15:00	Discussion	
15:00 - 15:15	Coffee break / refreshments	
AI IN LIFE SCIENCES: FROM ACADEMIC RESEARCH TO INDUSTRIAL APPLICATION		
15:15 - 15:40	From Data to Predictions: Computational Optimization of Multi-specific Protein Therapeutics	Dr. Norbert Furtmann Sanofi Frankfurt



15:40 - 16:05	Can Machine Learning Replace ADME Experiments in Drug Discovery?	Dr. Raquel Rodríguez Perez Novartis Institutes for BioMedical Research
16:05 - 16:30	Machine Learning Models for Predicting Human in Vivo PK Parameters Using Chemical Structure and Dose	Dr. Filip Miljković AstraZeneca
16:30 - 16:55	<i>Title to be announced</i>	Dr. Paurush Praveen Miltenyi Biotec
16:55 - 17:20	Causal Machine Learning in Drug Development	Dr. Ashar Ahmad Grünenthal Group
17:20 - 17:40	Coffee break / refreshments	
EVENING LECTURE: DATA SCIENCE AND AI IN INDUSTRY: CURRENT TRENDS AND FUTURE PERSPECTIVES		
17:40 - 18:25	The Impact of Data Science and AI in Healthcare	Dr. Bryn Roberts Roche Pharma
18:25 - 18:40	Discussion	
18:40	End of symposium – day 1	

Day 2 – June 27, 2023

09:00	Welcome coffee and light breakfast	B-IT Foyer / Room 0.109
KEYNOTE 2: AI IN TRANSLATIONAL CLINICAL RESEARCH		
09:30 - 10:15	<i>Title to be announced</i>	Prof. Dr. Roland Eils Berlin Institute of Health (BIH)
10:15 - 10:30	Discussion	
10:30	Coffee break / refreshments	



AI IN MEDICINE		
10:45 - 11:10	<i>Title to be announced</i>	Dr. Johann de Jong Boehringer Ingelheim
11:10 - 11:35	Enabling Biomedical Research Through ML: From Exploration to Production	Dr. Francisco Azuaje Genomics England
11:35 - 12:00	Foundation Models for the Smart Hospital of the Future	Dr. Dario Antweiler Fraunhofer IAIS
12:00 - 13:00	Lunch break	
KEYNOTE 3: AI IN PERSONALIZED MEDICINE		
13:00 - 13:45	Role of AI in Personalized Medicine	Dr. Anna Bauer-Mehren Roche Innovation Center Munich
13:45 - 14:00	Discussion	
APPLIED AI		
14:00 - 14:25	Transforming the Chemical Industry: Exploring BASF's Innovative Use of AI	Dr. Shweta Bagewadi-Kawalia BASF
14:25 - 14:50	Automatic Relation Extraction from Scientific Literature for Large Scale Knowledge Graph Creation	Stefan Geißler KAIRNTECH
14:50 - 15:15	Global Pandemic Intelligence on a Web of Data	Dr. Dusan Milovanovic WHO
15:15 - 15:40	Towards a Prescriptive Field Testing Pipeline: How Data Science and Digital Technologies drive the Development of Future Crop Protection Products	Dr. Philipp Senger Bayer AG
15:40	Closing Remarks: Perspectives of Translational Data Science & AI	Prof. Dr. Holger Fröhlich Fraunhofer SCAI
17:00	End of symposium & farewell	