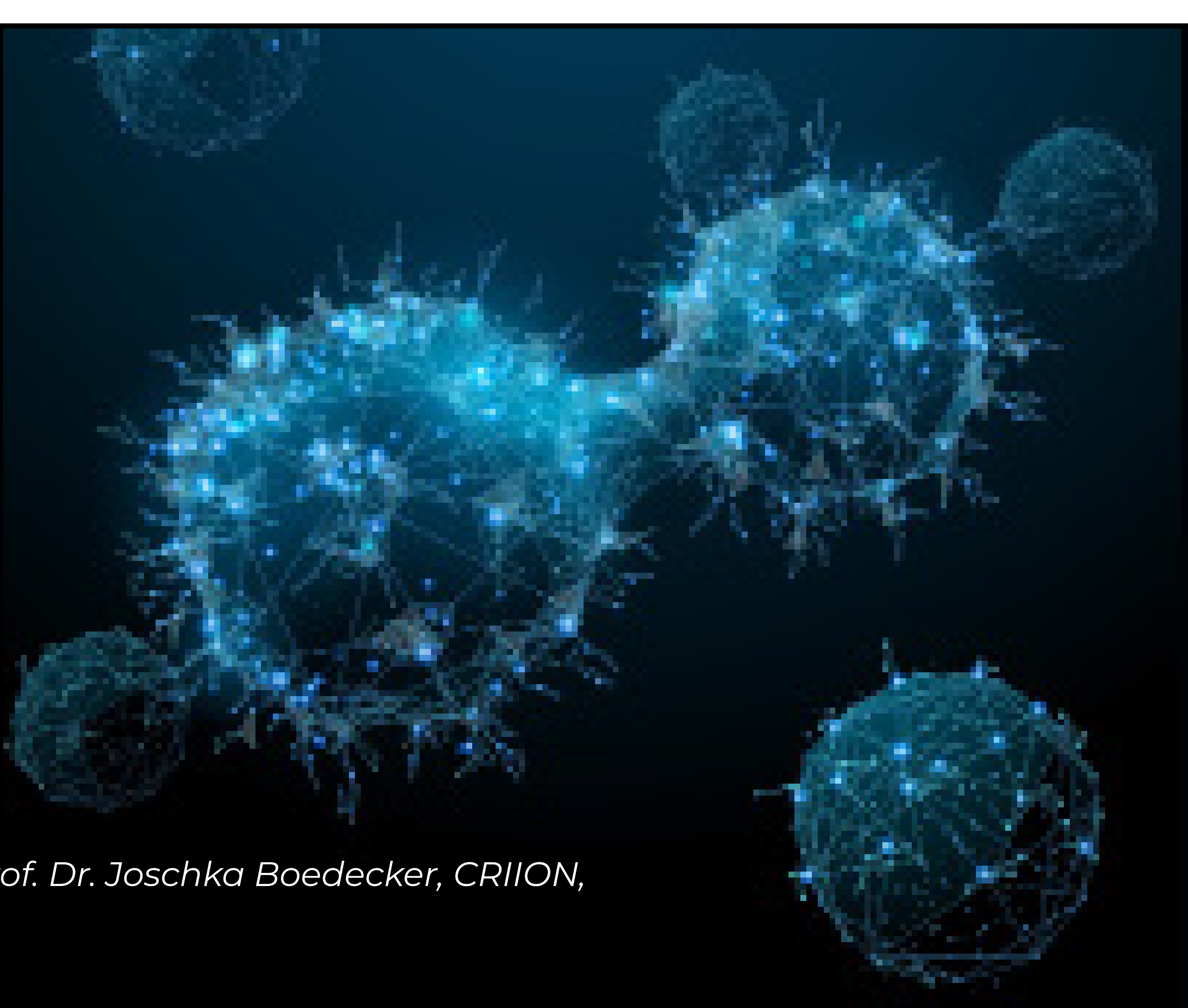


# Intelligent Oncology

The Potential of AI to Control Cancer



## PROGRAM

- 09:30 - 09:50 **Introduction**  
*Prof. em. Dr. Dr. h.c. mult. Roland Mertelsmann, Prof. Dr. Joschka Boedecker, CRIION, Freiburg, Germany*
- 09:50 - 09:55 **Welcome remarks from Baden - Württemberg**  
*Nadyne Saint - Cast, MdL, die Grünen*
- 09:55 - 10:00 **Welcome remarks from the University Hospital of Freiburg**  
*Chief Medical Director Prof. Dr. Dr. h. c. Frederik Wenz*
- 10:00 - 10:05 **Welcome remarks from the Technical Faculty of Freiburg University**
- 10:05 - 10:35 **Interpretability, efficiency, accessibility, & trustworthiness: Building the foundations of applicable AI in oncology**  
*Dr. Maria Kalweit, CRIION, Freiburg, Germany*
- Coffee break*

## Session I: Understanding Cancer Through AI and Computational Biology

*Chair: Prof. Dr. Robert Zeiser & Prof. Dr. Adriana Tomic*

- 11:00 - 11:30 **Knowledge-based machine learning to extract disease mechanism from multi-omics data**  
*Prof. Julio Saez-Rodriguez, University Heidelberg, Germany*
- 11:30 - 12:00 **Improving cell segmentation in spatial transcriptomics**  
*Dr. Daniel Jones, Fred Hutch Cancer Center, USA*
- 12:00 - 12:30 **Exploring mechanism and functional heterogeneity in cellular immunotherapies targeting cancer via machine learning analysis of live-imaging**  
*Dr. Maria Alieva, Instituto de Investigaciones Biomédicas de Madrid, Spain*
- 12:30 - 12:40 **Best Abstract Award**
- Lunch break & Poster Presentation*

## Session II: Building Trust and Regulation in Artificial Intelligence Models for Medicine

*Chair: Prof. Dr. Joschka Boedecker & Dr. Jan Moritz Middeke*

- 13:40 - 14:10 **New regulatory thinking is needed for, at-the-patient-bedside` AI-based personalised drug and cell therapies in precision oncology**  
*Prof. Stephen Gilbert, Technical University Dresden, Germany*
- 14:10 - 14:40 **An instrument like any other? Ethical considerations on the use of AI in medicine**  
*Dr. Markus Herrmann, NCT Heidelberg, Germany*
- 14:40 - 15:10 **A regulator`s perspective on AI-based indications for anti-cancer medicines**  
*Dr. Harald Enzmann, BFARM, Germany*
- 15:10 - 15:20 **Best Abstract Award**
- Coffe break*

## Session III: Deploying AI and Computational Biology into Clinical Applications

*Chair: Prof. Dr. Dr. Melanie Börries & Prof. Dr. Christoph Merten*

- 15:50 - 16:20 **The practical usage of AI Applications in routine diagnostics**  
*Sven Maschek, MLL Münchner Leukämielabor, Germany*
- 16:20 - 16:50 **AI for better cancer care**  
*Dr. Andre Dekker, Maastricht University Medical Center, Netherlands*
- 16:50 - 17:20 **Machine learning for personalized cancer care**  
*Prof. Adam Yala, Berkeley, USA*
- 17:20 - 17:30 **Best Abstract Award**
- 17:30 - 17:40 **Audience Award for Best Abstract**
- 17:40 - 17:50 **Closing remarks**  
*Prof. Dr. Evelyn Ullrich, Ullrich Lab Frankfurt, Germany*
- Networking Apéro*