Inaugural Symposium

Intelligent Oncology
The Potential of AI to Cure Cancer

Freiburg, Germany | 30.09.2022
9:00 - 18:00 | Otto-Krayer-Haus

www.intelligent-oncology.org/events/
MISSION

Connecting investigators and other visionaries aiming to boost cancer research with the help of modern AI methods. Bringing together leading experts from interdisciplinary fields such as physicians, computer scientists, cell and molecular biologists, as well as from pharma and the med-tech industry. We are exploring new pathways in cancer treatment with AI together. Our common goal: push the boundaries of what is possible. Joining forces, we can learn to cure cancer.

AIM OF THE CONFERENCE

The theme of the symposium is AI-assisted cancer research, and our aim is to present the states-of-the art in cancer diagnosis, prognosis, and treatment with data-driven methods. Our goal is to identify high-impact research directions, and to connect experts from academia and industry, in order to foster collaborations and translation into clinical practice.

SCIENTIFIC BOARD

Prof. Dr. Mascha Binder
CRIION Scientific Director Clinical Oncology & University Hospital Halle

Prof. Dr. Joschka Boedecker
CRIION Scientific Director AI & Department of Computer Science, University of Freiburg

Prof. Dr. Dr. Melanie Börries
CRIION Scientific Director Systems Medicine & Medical Center, University of Freiburg

Maria Kalweit, M.Sc.
CRIION Head of Applied AI Research & Department of Computer Science, University of Freiburg

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CEO Mertelsmann Foundation & Medical Center, University of Freiburg

Prof. Dr. Robert Zeiser
CRIION Scientific Director Translational Oncology & Medical Center, University of Freiburg
KEYNOTES

» AlphaFold
» Predicting adaptive immunity using systems immunology and machine learning
» Droplet microfluidics in antibody discovery and personalized cancer therapy
» AI in hematology: computer vision and machine learning for improved diagnosis and risk stratification
» AI in cancer genomics
» Dissecting intra-tumor heterogeneity by single cell RNA-seq
» SIMON says: Deciphering the human immune responses using machine learning
» Clinical intelligent systems in the wild?
» Philosophy of AI for health

SPEAKERS CONFIRMED

Dr. Quaid Morris
Memorial Sloan Kettering Cancer Center New York, USA

Prof. Christoph Merten
EPFL Switzerland

Dr. Ignacio Mastroleo
University of Buenos Aires Argentina

Dr. Nikolaus Schultz
Memorial Sloan Kettering Cancer Center, USA

Dr. Victor Greiff
University of Oslo Norway

Dr. Adriana Tomic
University of Oxford United Kingdom

Dr. Itay Tirosh
Weizmann Institute Israel

Prof. Lena Maier-Hein
German Cancer Research Center Germany

Dr. Jan Moritz Middeke
University Hospital Dresden Germany

Prof. Olaf Ronneberger
Google DeepMind United Kingdom
GENERAL INFORMATION

Event Location

Otto-Krayer-Haus
Alberstr. 25 | 79102 Freiburg im Breisgau | Germany

Price

100 € physicians and scientists | 300 € industry | students are free

You can either join the meeting on site or online. Lectures will be recorded and available after the event.

Organisation

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Registration

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