Symposium “Intelligent Oncology - The Potential of AI to Cure Cancer"

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Abstract:
The Inaugural Symposium “Intelligent Oncology - The Potential of AI to Cure Cancer" will take place in Freiburg, Germany in a few days. The theme of the symposium is AI-assisted cancer research, and the aim is to present the state-of-the-art of cancer diagnosis, prognosis, and treatment with data-driven methods, to identify high-impact research directions. The meeting will bring together leaders from industry and academia to exchange and share their experiences, present research results, explore collaborations and to spark new ideas, with the aim of developing new projects.

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This year in March, the collaborative research institute CRIION (Collaborative Research Institute "Intelligent Oncology") was founded. It represents a bridge between the university profile fields of cancer research and artificial intelligence and data analysis and bundles their expertise to advance medicine in the fight against cancer with the help of state-of-the-art data-driven methods.

On its foundation, the Institute will organize the inaugural symposium "Intelligent Oncology - The Potential of AI To Cure Cancer" on 30 September 2022 in Freiburg/Germany on 30 September 2022.

You can register free of charge on our homepage with the code JoshaIO: www.intelligent-oncology.org/events/

On this day, world-renowned top researchers will give an insight into the latest state-of-the-art cancer diagnosis:

**Predicting adaptive immunity using systems immunology and machine learning**

*Dr. Victor Greiff*

University of Oslo, Norway

**Clinical intelligent systems in the wild?**

*Prof. Lena Maier-Hein*

German Cancer Research Center Germany

**Philosophy of AI for health**

*Dr. Ignacio Mastroleo*

University of Buenos Aires, Argentina
Droplet microfluidics in antibody discovery and personalized cancer therapy

Prof. Christoph Merten
EPFL, Switzerland

Al in hematology: computer vision and machine learning for improved diagnosis and risk stratification

Dr. Jan Moritz Middeke
University Hospital Dresden, Germany

Al in cancer genomics

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

Towards clinical decision support in oncology: Data integration, outcome models, and intuitive software

Dr. Nikolaus Schultz
Memorial Sloan Kettering Cancer Center, USA

Dissecting intra-tumor heterogeneity by single cell RNA-seq

Dr. Itay Tirosh
Weizmann Institute, Israel

SIMON says: Deciphering the human immune responses using machine learning

Dr. Adriana Tomic
University of Oxford, United Kingdom