

SPEAKERS AND CHAIRS, PART I

Tim Beißbarth (Institute of Medical Bioinformatics, UMG)

Melanie Börries (Department for Biometry, Epidemiology and Medical Bioinformatics, Albert-Ludwigs-Universität Freiburg, Germany)

Christian Dullin (Department of Diagnostic and Interventional Radiology, University Medical Center Göttingen, Germany)

Friedrich Feuerhake (Institute of Pathology, Hannover Medical School, Germany)

Francesca Finotello (Institute of Molecular Biology & Digital Science Center, University Innsbruck, Austria)

Nils-Claudius Gellrich (Department of Oral and Maxillo-facial Surgery, Hannover Medical School, Germany)

Michael Ghadimi (Department of General, Visceral and Pediatric Surgery, University Medical Center Göttingen, Germany)

Niels Grabe (Institute of Pathology, University Medical Center Göttingen, Germany)

Pascal Grosse (Charité, Berlin, Germany)

Horst Hahn (Institute for Digital Medicine, Fraunhofer Institute for Digital Medicine MEVIS, Bremen, Germany)

Anne-Christin Hauschild (Department of Medical Informatics, University Medical Center Göttingen, Germany)

Michael Heuser (Department of Hematology, Hemostasis, Oncology, and Stem Cell Transplantation, Hannover Medical School, Germany)

Peter Hillemanns (Department of Gynecology and Obstetrics, Hannover Medical School, Germany)

Tim Kacprowski (Peter L. Reichertz Institute for Medical Informatics of TU Braunschweig and MHH)

Jack Kuipers (ETH Zurich, Switzerland)

Michal Matyjas (Department of Neurology and Experimental Neurology, Charité, Berlin, Germany)

SPEAKER AND CHAIRS, PART II

Michael Menden (Computational Biomedicine, Helmholtz Institute Munich, Germany)

Moritz Middeke (Department of Internal Medicine I, University Hospital Dresden & Else Kröner Fresenius Center for Digital Health Dresden, Germany)

Steffen Oeltze-Jafra (Peter L. Reichertz Institute for Medical Informatics, Hannover Medical School, Germany)

Alexander Oeser (Innovation Center for Computer-Assisted Surgery, Leipzig University, Germany)

Florian Putz (Radiation Clinic, Universitätsklinikum Erlangen, Germany)

Renata Raidou (Institute of Visual Computing & Human-Centered Technology, Technical University Vienna, Austria)

Kristina Ringe (Department for Diagnostic and Interventional Radiology, Hannover Medical School, Germany)

Sabine Salloch (Institute for Ethics, History and Philosophy of Medicine, Hannover Medical School, Germany)

Ulrich Sax (Department of Medical Informatics, University Medical Center Göttingen, Germany)

Tillman Schlick (Intuitive Surgery, Da Vinci Robotic Surgery)

Günter Schneider (Department of General, Visceral and Pediatric Surgery, University Medical Center Göttingen, Germany)

Peter Schöffler (Computational Pathology, Technical University of Munich, Germany)

Martin Wagner (Department of General, Visceral and Transplantation Surgery, Heidelberg University Hospital; Department of Visceral, Thoracic and Vascular Surgery, University Hospital Carl Gustav Carus, Dresden, Germany)

Eva Winkler (Heidelberg University Hospital (UKHD), NCT Heidelberg, Germany)

Jeroen van Laak (Computational Pathology, Radboud, Nijmegen, Netherlands)

VENUE



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DIGITAL ONCOLOGY CONFERENCE



A CCC-N and Else Kröner Symposium

HANNOVER FAIR, HALL 19,
CONFERENCE ROOM NEW YORK
March 15 and 16, 2023



ABOUT THE CONFERENCE

Big data in cancer research, artificial intelligence in diagnostics, or planning virtual tumor boards for interdisciplinary treatment – digital innovations have had a massive impact on oncology in recent years and are indispensable in everyday medical practice. The Digital Oncology Conference 2023 is a scientific symposium and networking platform for digital oncology research. Invited speakers will provide an overview on the latest research findings and promote discussions on potentials and challenges of implementing digital approaches in cancer research and health care.

ORGANISATION

VENUE

Hannover Fair, Hall 19
30521 Hannover

ORGANISER

Comprehensive Cancer Center Niedersachsen (CCC-N)
Translational Research Team
www.ccc-niedersachsen.eu

SCIENTIFIC DIRECTION

Michael Heuser
Department of Hematology, Hemostasis, Oncology, and Stem Cell Transplantation, Hannover Medical School, Germany

Günter Schneider
Department of General, Visceral and Pediatric Surgery, University Medical Center Göttingen, Germany

REGISTRATION

A registration for this in person conference is required and open now:



s.gwdg.de/CgywDn

ABSTRACTS

All scientists are welcome to submit an abstract online via the conference website. **Deadline for abstract submission:** February 5th, 2023. A scientific committee will select abstracts for poster or oral presentation.

DAY 1 | MARCH 15, 2023

11:30	Welcome Lunch
12:20	Welcome Conference Chairs: Michael Heuser, Hannover Günter Schneider, Göttingen
SESSION I: Digital and Computational Histopathology Chairs: Friedrich Feuerhake, Hannover Niels Grabe, Göttingen	
12:30	Computer Vision and Deep Learning for improved diagnostics of myeloid malignances Moritz Middeke, Dresden
12:55	Making sense of pathology images Peter Schöffler, Munich
13:20	Use cases for computational pathology with high potential for clinical implementation and diagnostic decision support Jeroen van Laak, Nijmegen
13:45	Integration of computational pathology algorithms with established conventional diagnostic workflows Friedrich Feuerhake, Hannover
14:10	Presentation from Abstracts
14:25	Coffee & Cake
SESSION II: AI to Advance Cancer Imaging Chairs: Kristina Ringe, Hannover Christian Dullin, Göttingen	
15:00	AI from bench to bedside in radiooncology: Status quo and quo vadis N.N.
15:25	Integrating clinical and imaging data in oncology Horst Hahn, Bremen
15:50	How can AI improve radiotherapy? Florian Putz, Erlangen
16:15	Can virtual histology replace histopathology? Christian Dullin, Göttingen
16:40	Presentation from Abstracts
16:55-18:30	Poster Session & Get Together

DAY 2, PART I | MARCH 16, 2023

SESSION III: Machine Learning and Visualization Techniques for Clinical Decision Support in Oncology Chairs: Steffen Oeltze-Jafra, Hannover Anne-Christin Hauschild, Göttingen	
09:00	Systems medicine approach to support clinical decisions in oncology Melanie Börries, Freiburg
09:20	Take a leap: New Algorithms and Multi-Omics Data to Support Clinical Decision in Oncology Anne-Christin Hauschild, Göttingen
09:40	Visual Analytics for Digital Radiotherapy Renata Raidou, Vienna
10:00	Expert-informed Bayesian Networks to Support Clinical Decision-Making in Oncology Alexander Oeser, Leipzig
10:20	Discussion Session III
10:55	Coffee & Cake
SESSION IV: Digital Surgery Chairs: Peter Hillemanns, Hannover Michael Ghadimi, Göttingen	
11:25	Intuitive Surgery, Da Vinci Robotic Surgery Tillman Schlick, Da Vinci Robotic Surgery
11:50	From Surgical Data Science to AI-Assisted Surgery – Clinical Translation of Machine Learning in Surgical Oncology Martin Wagner, Heidelberg/Dresden
12:15	The power of digital technologies for craniomaxillofacial tumor surgery and postablative reconstruction Nils-Claudius Gellrich, Hannover
12:40	Establishing digital surgery at a German university hospital Michael Ghadimi, Göttingen
13:05	Presentation from Abstracts
13:20-14:05	Lunch

DAY 2, PART II | MARCH 16, 2023

SESSION V: Building Trust in Artificial Intelligence Models and Digital Methods in Medical Education Chairs: Sabine Salloch, Hannover Ulrich Sax, Göttingen	
14:05	Debate: AI will replace ethics committees: Yes Sabine Salloch, Hannover
14:30	Debate: AI will replace ethics committees: No Eva Winkler, Heidelberg
14:55	New Digital Resources to Improve Medical Education Michal Matyjas/Pascal Grosse, Berlin
15:20	Training the next generation in Digital Medicine: Experience from the DigiStrucMed Graduate Program Michael Heuser, Hannover
15:40	Presentation from Abstracts
15:55	Coffee & Cake
SESSION VI: AI and Machine Learning Techniques Improving Cancer Research Chairs: Tim Kacprowski, Braunschweig/Hannover Tim Beißbarth, Göttingen	
16:25	Modelling immunotherapies in silico Francesca Finotello, Innsbruck
16:50	Understanding tumor evolution with statistical machine learning Jack Kuipers, Zurich
17:15	A Vision of Computational Translational Pharmacogenomics Michael Menden, Munich
17:40	How can we make sense of the data overload in cancer research? Tim Beißbarth, Göttingen
18:05	Presentation from Abstracts
18:20	Young Scientist Digital Oncology Poster Award
18:25-18:30	Concluding Remarks