

LOCATIONS EVENING PROGRAM

DAY 1 – DEUTSCHES THEATER GÖTTINGEN



Theaterplatz 11, 37073 Göttingen
www.dt-goettingen.de

DAY 2 – MAX PLANCK INSTITUTE FOR SOLAR SYSTEM RESEARCH



Justus-von-Liebig-Weg 3, 37077 Göttingen
<https://www.mps.mpg.de/institut>

VENUE



Lecture Hall
Max-Planck-Institute for Multidisciplinary Sciences
City Campus
Hermann-Rein-Str. 3, 37075 Göttingen
Germany

AIMS

This symposium provides a multidisciplinary platform for discussing the integration of emergent artificial intelligence (AI) - based technologies into clinical practice. We aim to develop best practices and educational guidelines for the responsible and effective use of AI in healthcare, with a focus on diagnostics, monitoring, surgery, precision medicine, and ethical, social, and legal considerations. Additionally, participants will explore the intersection of entrepreneurship and healthcare, with a focus on taking innovations from concept to market. The symposium will feature interactive discussions, World Cafe session, and panel debates, involving diverse stakeholders, including clinicians, researchers, ethicists, policymakers, and patient advocates.

In cooperation with:



ORGANISATIONAL INFORMATION

ORGANISING COMMITTEE

Frauke Alves
University Medical Centre, Göttingen
Andrea Markus
Max-Planck-Institute for Multidisciplinary Sciences, Göttingen
Anne Schwerk
International University of Applied Sciences, Berlin

CONTACT

Wiebke Timmer
Max-Planck-Institute for Multidisciplinary Sciences
City Campus, Hermann-Rein-Str. 3, 37075 Göttingen, Germany
Ph: +49-(0)551-20131615; email: timmer@mpinat.mpg.de

OTHER INFORMATION

Talks and Posters
Students and Postdocs are invited to apply for a short talk or poster with their own work. There will be a poster exhibition in the hall of the Max-Planck-Institute, which can be viewed during the breaks.

ACCOMODATION

You can find an overview of accommodation options here:
<https://www.goettingen-tourismus.de/uebernachten/hotel-uebersicht/>

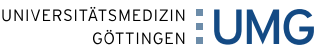
REGISTRATION

Registration fees:

Students: € 100
Academics and others: € 150

Registration covers admission to all scientific sessions, coffee breaks, lunches and social events/dinners. Accommodation and travel costs are not included in the registration. Early career researchers working in a field related to AI in Healthcare are encouraged to submit an abstract. Of all submitted abstracts, six will be selected for oral presentation. Poster presentations are possible during coffee breaks. The number of participants will be limited to 100. Priority will be given to early registration.

The **registration deadline is 31.08.2025**. Applicants please fill in the registration form available at <https://gcc.umg.eu/ai-in-healthcare/> and send it to Wiebke Timmer by email: timmer@mpinat.mpg.de



A Symposium on AI in Healthcare

SHAPING THE FUTURE OF MEDICAL DECISIONS



06.-08.10.2025

**Max-Planck-Institute for
Multidisciplinary Sciences**
City Campus - Lecture Hall

Hermann-Rein-Str. 3, 37075 Göttingen
Germany



PROGRAMM, DAY 1, PART 1

AI’s current role in Diagnostics and Decision-Support

Chairs: Frauke Alves and Anne Schwerk

- 08:15Registration and coffee
- 09:00Welcome by representatives of MPI-NAT and UMG
Holger Stark, MPI-NAT | Wolfgang Brück, UMG Göttingen
- 09:10Welcome
Frauke Alves, UMG/MPI-NAT
- 09:15Keynote: Multimodal Medicine: A New Era of Intelligence in Health
Jackie Ma, Fraunhofer HHI, Berlin

AI in Diagnostics and Decision Support

Chairs: Ramin Yahyapour, Christine von Arnim

- 10:00Clinical Digital Twins for AI-driven Medical Decision Support
Björn Eskofier, FAU Erlangen
- 10:30Coffee break
- 11:00AI Decision Support in Nephrology, Telemedicine, and Chatbots
Klemens Budde, Charité, Berlin
- 11:30Predictive Deep Learning for Medicine and Healthcare
Anne Christine Hauschild, JLU Gießen
- 11:50Towards Trustworthy AI: Concept Bottlenecks and Uncertainty in Clinician-Centred Decision Support
Christopher Banerji, King’s College London, UK

Examples of application tools

Chairs: N.N., N.N.

- 12:10QSHIFT: Decision-Making in the Age of Quantum AI
Faisal Kwaileh, Charité Berlin
- 12:25Synthetic Data in Medical Diagnostics
Frauke Wilm, MIRA vision microscopy GmbH, Erlangen
- 12:40Lunch & Foto

Innovation through Data Integration

Chairs: Constanze Schmidt, Jana Zschüntzsch

- 13:45Selected young scientists
Rising voices in AI
- 14:15Future Data Integration: Experience from Screen4Care
Josef Schepers, BIH Berlin
- 14:45Impact of Medical Informatics
Dagmar Krefting, UMG, Göttingen
- 15:15Empowering health data in hospitals for AI-based clinical decision support systems and data-driven research
Moritz Augustin, Tiplu GmbH, Berlin
- 15:45Coffee break
Walk to Aula am Wilhelmsplatz, Göttingen

PROGRAMM, DAY 1, PART 2

Shaping the future of medical decisions

Chair: Inga Bergen

- 17:00Welcome by the President of the University of Göttingen
Axel Schölmerich, Univ. Göttingen
- 17:05Keynote: The future of inclusive AI technologies
Mei Lin Fung, People Centered Internet, Palo Alto, CA
- 17:35Keynote: Privacy by Design: Support for Patients and Families on the Rare Disease Diagnostic Journey in the Age of Ubiquitous AI
Liz Goodman, Univ. College Dublin, IRE | Huw Williams, SMARTlab, Dublin, IRE
- 18:05Panel Discussion: The future and current state of medical decision making
Moderation: Inga Bergen
Panelists: Klemens Budde, Björn Escofier, Pedro Kringen, Dagmar Krefting
- 19:00Dinner/Evening program Deutsches Theater

PROGRAMM, DAY 2, PART 1

Regulation and Ethical AI-driven Medicine

Chairs: Silke Schicktanztanz, Monika Rimmele

- 09:00AI from a political perspective
Greeting by Grant Hendrik Tonne, nds. Minister für Wirtschaft, Verkehr, Bauen
- 09:05Keynote: AI and Sustainability, Risk and Security
Pedro Kringen, Trustworthy AI Lab HiØ, Fredrikstad, N
- 09:50Regulatory Challenges for Artificial Intelligence
Andreas Propp, Dierks+Co, Berlin
- 10:20Rising voices in AI
Selected young scientists
- 10:50Coffee break
- 11:15Conversational and voice AI solutions
Julia Hoxha, Zana, Berlin
- 11:45Explainable AI in Medical Decision-Making
Anne Schwerk, IU - International University of Applied Sciences, Berlin
- 12:15Keynote: AI to Propose Personalized Therapies for Cancers
Peter Horvath, Helmholtz Munich
- 12:45Lunch – Collaboration and Partnership

Patient-centricity

Chairs: Lena Conradi, Friederike Braulke

- 13:45Is regulatory science ready for adaptive AI? A manufacturer’s perspective on generalizability, fine-tuning, and trust in medical devices
Kay Brosien, x-cardiac, Berlin

PROGRAMM, DAY 2, PART 2

- 14:15Towards a Patient-centric research: steps for Patient Involvement
Juan-José Ventura, Cancer Patients Europe, Brussels, BEL
- 14:45Panel discussion: Impact of new digital technologies on medical practice, e.g. social, ethical, and regulatory aspects
Rik Van Heijningen, Brussels, BEL | Ferdinand Knieling, Erlangen | Liz Goodman, Dublin, IRE | Stefan Rieken, Göttingen | Juan-José Ventura, Brussels, BEL | Monika Rimmele, Cappingini, Berlin | Jascha Stein, Oldenburg | Julia Hoxha, Berlin
- 15:45Breakout session
 - Match making for collaborative research (Frauke Alves, MPI-NAT Göttingen)
 - Workshop: White paper on guidelines for best practice (Anne Schwerk, IUB, Berlin)
- 16:15Coffee break
and walk to MPI Sonnensystemforschung
- 17:00Guided tour through the institutes of Campus Göttingen/ MPI Sonnensystemforschung
- 17:00Speed Dating
- 18:30Evening program / Dinner at MPI Sonnen-systemforschung

PROGRAMM, DAY 3, PART 1

From invention to market – Entrepreneurship in the medical field

Chairs: Holger Stark, Elisabeth Zeisberg

- 09:00Keynote: Innovation, Technology-Management & Entrepreneurship
Stefanie Heiden, LU Hannover
- 09:30A Life Science Start-up Journey
Tim Witney, King’s College London, UK
- 10:00Clinical Translation of Innovative Therapies
Emmet McCormack, UiB Bergen, N
- 10:30LLMs in clinical practice
Nils Schweingruber, UKE Hamburg
- 10:50Coffee break

From invention to clinic application

Chairs: N.N., Tim Salditt

- 11:20Optogenetic restoration of hearing
Tobias Moser, UMG Göttingen
- 11:30Tba
Tim Salditt, Univ. Göttingen
- 11:40Tba
Miltenyi Biotec, Bergisch-Gladbach

PROGRAMM, DAY 3, PART 2

- 11:50Perspectives: “Life Science Valley Niedersachsen”
Sven Wagner, Sartorius, Göttingen
- 12:10Discussion round
All speakers | chairs | Liat Nissimov-Brück, Göttingen
- 13:00Lunch – Collaboration and Partnership

Innovative technologies for the medical future

Chairs: Susan Boretius, Philipp Ströbel

- 14:004D Imaging: Extended Reality in Surgical Practice
Moritz Queisner, Charité, Berlin
- 14:25Shedding light and sound on rare pediatric diseases
Ferdinand Knieling, University Clinic Erlangen
- 14:50Novel imaging strategies for the diagnosis of gastrointestinal cancer
Stephan Rogalla, Stanford, US
- 15:15SWIM to go Deep and SLIDE to Go Fast: Nonlinear Optical Strategies for Bioimaging
Luigi Bonacina, Univ. Geneva, CH
- 15:40Coffee break

Translational AI and Imaging Innovation – Expert Pitches and Panel

Clinicians from UMG: Hanibal Bohnenberger, Stefan Rieken, Christine Stadelmann, Anna Hell, Christiane Lex, Ali Seif

- 16:00Topics:
 - Automatised light sheet microscopy as diagnostic tool
 - Multiphoton microscopy for 3D imaging
 - High Throughput Tomography
 - Lifetime imaging for image-guided surgery
 - Automated Spatial Omics Landscape Analysis
 - Deep Learning-Based Methods for Advanced Bioimages
 - Learning Quantitative Imaging Biomarkers

Imaging experts: Luigi Bonacina, Geneva, CH | Fernanda Ramos Gomes, Göttingen | Christian Dullin, Göttingen | Angelika Svetlova, EMBL Hamburg

AI experts: Constantin Pape, Göttingen | Philipp Wieder, Göttingen | Riccardo Scodellaro, Göttingen | Dagmar Krefting, Göttingen

- 17:00Discussion on FUTURE Innovations
ALL speakers
- 17:30Concluding remarks/Farewell
Frauke Alves