

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

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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/uebemachten/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 07.9.2025**. . Applicants please fill in the registration form available at <https://gcc.umg.eu/ai-in-healthcare/> and send it to Wiebke Timner by email: timner@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

- 08:15 Registration and coffee
- 09:00 Welcome by representatives of MPI-NAT and UMG
Holger Stark, MPI-NAT | Wolfgang Brück, UMG Göttingen
- 09:10 Welcome
Frauke Alves, UMG/MPI-NAT
- 09:15 Keynote: 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

- 10:00 Clinical Digital Twins for AI-driven Medical Decision Support
Björn Eskofier, FAU Erlangen
- 10:30 Coffee break
- 11:00 AI Decision Support in Nephrology, Telemedicine, and Chatbots
Klemens Budde, Charité, Berlin
- 11:30 Predictive Deep Learning for Medicine and Healthcare
Anne Christine Hauschild, JLU Gießen
- 11:55 Towards Trustworthy AI: Concept Bottlenecks and Uncertainty in Clinician-Centred Decision Support
Christopher Banerji, King’s College London, UK
- 12:20 Synthetic Data in Medical Diagnostics
Frauke Wilm, MIRA vision microscopy GmbH, Erlangen
- 12:35 Lunch & Foto

Innovation through Data Integration
Chairs: Constanze Schmidt, Jana Zschüntzsch

- 13:45 Rising Voices in AI
Sara Kaviani, Indiscale Gö; Riccardo Scodellaro, MPI-NAT
- 14:15 Future Data Integration: Experience from Screen4Care
Josef Schepers, BIH Berlin
- 14:45 Impact of Medical Informatics
Dagmar Kefting, UMG, Göttingen
- 15:15 Empowering Health Data in Hospitals for AI-based Clinical Decision Support Systems and Data-driven Research
Moritz Augustin, Tiplu GmbH, Berlin
- 15:45 Coffee break
Walk to Aula am Wilhelmsplatz, Göttingen

Shaping the future of medical decisions
Chair: Inga Bergen

- 17:00 Welcome by the President of the University of Göttingen
Axel Schölmerich, Univ. Göttingen

PROGRAMM, DAY 1, PART 2

- 17:05 Greeting: AI from a Political Perspective
Joachim Schachtner, Staatssekretär Nds. Ministerium für Wissenschaft und Kultur
- 17:10 Keynote: The Future of Inclusive AI Technologies
Mei Lin Fung, People Centered Internet, Palo Alto, CA
- 17:40 Keynote: 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
- 18:10 Panel Discussion: The Future and Current State of Medical Decision Making
Moderation: Inga Bergen
Panelists: Klemens Budde, Björn Eskofier
Pedro Kringen, Dagmar Kefting, Gulcin Gumus
- 19:00 Dinner/Evening program Deutsches Theater

PROGRAMM, DAY 2, PART 1

Regulation and Ethical AI-driven Medicine
Chairs: Silke Schicktan, Monika Rimmele

- 09:00 Keynote: AI and Sustainability, Risk and Security
Pedro Kringen, Trustworthy AI Lab Hjø, Fredrikstad, N
- 09:45 Regulatory Challenges for Artificial Intelligence
Andreas Propp, Dierks+Co, Berlin
- 10:15 Rising Voices in AI
Janek Gröhl, ENI Gö; Motiur Sagar, UMG
- 10:45 Coffee break

Chairs: Nils Grabe, Lena Illert

- 11:15 Conversational and Voice AI Solutions
Julia Hoxha, Zana, Berlin
- 11:45 Explainable AI in Medical Decision-Making
Anne Schwerk, IU - International University of Applied Sciences, Berlin
- 12:15 Keynote: AI to Propose Personalized Therapies for Cancers
Peter Horvath, Helmholtz Munich
- 12:45 Lunch – Collaboration and Partnership

Patient-centricity
Chairs: Lena Conradi, Friederike Braulke

- 13:45 Is Regulatory Science Ready for Adaptive AI? A manufacturer’s perspective on generalizability, fine-tuning, and trust in medical devices
Kay Brosien, x-cardiac, Berlin
- 14:15 QSHIFT: Decision-Making in the Age of Quantum AI
Faisal Khwaileh, Charité, Berlin

PROGRAMM, DAY 2, PART 2

- 14:30 Towards a Patient-Centric Research: Steps for Patient Involvement
Juan-José Ventura, Cancer Patients Europe, Brussels, BEL
- 15:00 Panel 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, Capgemini, Berlin | Julia Hoxha, Berlin
- 15:45 Breakout session
 - Match making for collaborative research
Frauke Alves, MPI-NAT Göttingen
 - Workshop: White paper on guidelines for best practice
Anne Schwerk, IUB, Berlin
- 16:15 Coffee break
and walk to MPI Sonnensystemforschung
- 17:00 Guided tour through the institutes of Campus Göttingen/ MPI Sonnensystemforschung
- 18:00 Evening program:
 - Speed Dating
 - Note of Caution on Machine Learning in Pattern Recognition: Lessons from PLATO’s Exoplanet Search
Rene Heller, MPS Göttingen
 - Dinner at MPI Sonnensystemforschung
Pink Fluid – Jazz Band of the MPI-DS, Open End Party

PROGRAMM, DAY 3, PART 1

From invention to market – Entrepreneurship in the medical field
Chairs: Holger Stark, Sven Wagner

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

From invention to clinic application
Chairs: Felipe Opazo, Tim Salditt

- 11:20 Optogenetic Restoration of Hearing
Tobias Moser, UMG Göttingen

PROGRAMM, DAY 3, PART 2

- 11:30 AI in Advanced Cancer Research and Cell Therapies
Heinrich Spiecker, Miltenyi Biotec
- 11:50 Perspectives: “Life Science Valley Niedersachsen”
Elizabeth Zeisberg, UMG Göttingen
- 12:10 Discussion round
All speakers | chairs | Liat Nissimov-Brück, Göttingen
- 13:00 Lunch – Collaboration and Partnership

Innovative technologies for the medical future
Chairs: Susan Boretius, Philipp Ströbel

- 14:00 4D Imaging: Extended Reality in Surgical Practice
Moritz Queisner, Charité, Berlin
- 14:25 Shedding Light and Sound on Rare Pediatric Diseases
Ferdinand Knieling, University Clinic Erlangen
- 14:50 Novel Imaging Strategies for the Diagnosis of Gastrointestinal Disease
Stephan Rogalla, Stanford, US
- 15:15 SWIM to Go Deep and SLIDE to Go Fast: Nonlinear Optical Strategies for Bioimaging
Luigi Bonacina, Univ. Geneva, CH
- 15:40 Coffee 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

- 16:00 Topics:
 - 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

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