

A Symposium on AI in Healthcare

## SHAPING THE FUTURE OF MEDICAL DECISIONS



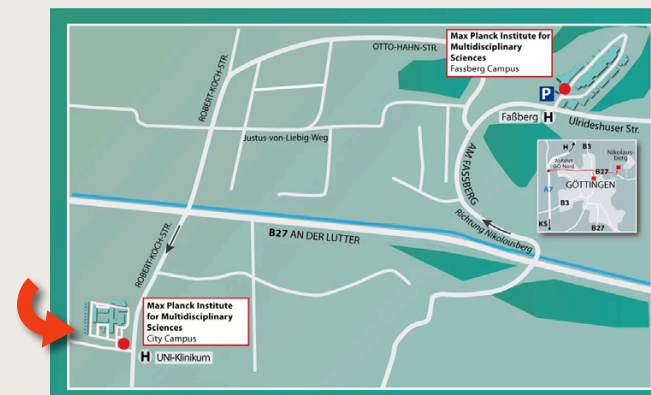
06.-08.10.2025

**Max-Planck-Institute for  
Multidisciplinary Sciences**

City Campus - Lecture Hall

Hermann-Rein-Str. 3, 37075 Göttingen  
Germany

## VENUE



### Lecture Hall

Max-Planck-Institute for Multidisciplinary Sciences  
City Campus  
Hermann-Rein-Str. 3, 37075 Göttingen  
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## 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 Schwert**

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/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 07.9.2025**. Applicants please fill in the registration form available at <https://gcc.umd.eu/ai-in-healthcare/> and send it to Wiebke Timmer by email: [timmer@mpinat.mpg.de](mailto:timmer@mpinat.mpg.de)

## LOCATIONS EVENING PROGRAM

### DAY 1 – DEUTSCHES THEATER GÖTTINGEN



Theaterplatz 11, 37073 Göttingen

[www.dt-goettingen.de](http://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>

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 Selected young scientists  
Rising voices in AI
- 14:15 Future Data Integration: Experience from Screen4Care  
Josef Schepers, BIH Berlin
- 14:45 Impact of Medical Informatics  
Dagmar Krefting, 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 Escofier, Pedro Kringen, Dagmar Krefting
- 19:00 Dinner/Evening program Deutsches Theater

PROGRAMM, DAY 2, PART 1

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

- 09:00 Keynote: AI and Sustainability, Risk and Security  
Pedro Kringen, Trustworthy AI Lab HiØ, Fredrikstad, N
- 09:45 Regulatory Challenges for Artificial Intelligence  
Andreas Propp, Dierks+Co, Berlin
- 10:15 Rising voices in AI  
Selected young scientists
- 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

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: N.N., Tim Salditt

- 11:20 Optogenetic restoration of hearing  
Tobias Moser, UMG Göttingen

PROGRAMM, DAY 3, PART 2

- 11:30 Tba  
Heinrich Spieker, 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 diseases  
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