A Symposium on AI in Healthcare
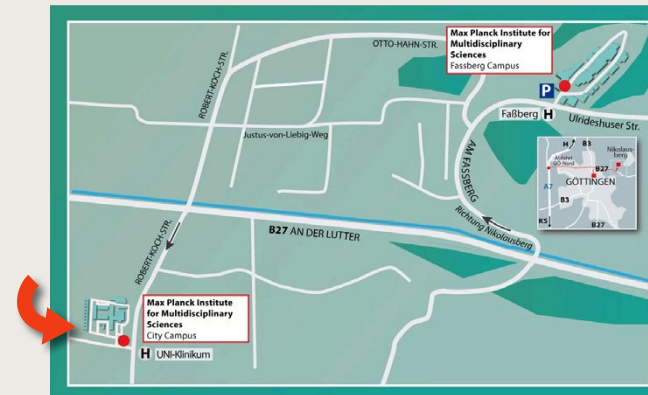
SHAPING THE FUTURE OF MEDICAL DECISIONS

06.-08.10.2025

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

In cooperation with:

Comprehensive Cancer Center Niedersachsen
UNIVERSITÄTSMEDIZIN
UniversitätsKrebszentrum
GÖTTINGEN

INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN IN PUBLICA COMMODA 2017 1737

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.

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/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://gccc.umg.eu/ai-in-healthcare/ and send it to Wiebke Timner by email: timner@mpinat.mpg.de

UMG 8/2025 | Foto: adobe stock

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

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 cancer
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