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:
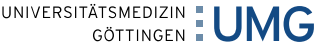https://www.goettingen-tourismus.de/uebernachten/hotel-uebersicht/

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://gccc.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, N.N.

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
11:50	**Towards 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.

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

PROGRAMM, DAY 1, PART 2

Shaping the future of medical decisions
Chair: Inga Bergen

17:00	**Welcome by the President of the University of Göttingen** Axel Schölmerich, Univ. Göttingen
17:05	**Keynote: The future of Inclusive AI technologies** Mei Lin Fung, People Centered Internet, Palo Alto, CA
17:35	**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
18:05	**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	**AI from a political perspective** Greeting by Grant Hendrik Tonne, nds. Minister für Wirtschaft, Verkehr, Bauen
09:05	**Keynote: AI and Sustainability, Risk and Security** Pedro Kringen, Trustworthy AI Lab HiØ, Fredrikstad, N
09:50	**Regulatory Challenges for Artificial Intelligence** Andreas Propp, Dierks+Co, Berlin
10:20	**Rising voices in AI** Selected young scientists
10:50	**Coffee break**
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

PROGRAMM, DAY 2, PART 2

14:15	**Towards a Patient-centric research: steps for Patient Involvement** Juan-José Ventura, Cancer Patients Europe, Brussels, BEL
14:45	**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	Jascha Stein, Oldenburg	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**
17:00	**Speed Dating**
18:30	**Evening program / Dinner at MPI Sonnensystemforschung**

PROGRAMM, DAY 3, PART 1

From invention to market – Entrepreneurship in the medical field
Chairs: Elisabeth Zeisberg, N.N.

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., N.N.

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

PROGRAMM, DAY 3, PART 2

11:50	**Perspectives: "Life Science Valley Niedersachsen"** Sven Wagner, Sartorius, 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:** • 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
17:00	**Discussion on FUTURE Innovations** ALL speakers
17:30	**Concluding remarks/Farewell** Frauke Alves