

Biomedical Data Science Center

1st Symposium

AI-Driven Advances in Clinical
and Translational Medicine



CHUV
Auditoire César Roux
November 13, 2024

We are pleased to invite you to the 1st Symposium on AI-Driven Advances in Clinical and Translational Medicine, organized by the Biomedical Data Science Center-CHUV (BDSC) and jointly sponsored by the Directorate of Innovation in Clinical Research-CHUV (DIRC) and the Faculty of Biology and Medicine of the University of Lausanne (FBM-UNIL). This event will feature a series of insightful presentations and dynamic discussions. The symposium will focus on the latest AI-driven innovations, with a particular emphasis on their transformative impact on clinical and translational medicine. Join us as we bring together leading experts to explore the intersection of data science and healthcare.

The symposium will cover a range of cutting-edge topics, including advancements in artificial intelligence and their emerging applications in the clinic. Presentations will highlight the use of AI in medical diagnostics, predictive modeling, personalized medicine, and its role in improving healthcare outcomes. Attendees will have the opportunity to engage in discussions about the future potential of AI technologies in medical research and practice.

This symposium is aimed at a diverse audience, including basic and data scientists, clinicians, and medical doctors. Participants from renowned research institutions such as the Lausanne University Hospital (CHUV), the University of Lausanne (UNIL), the Swiss Federal Institute of Technology (EPFL), and the Swiss Data Science Center (SDSC), as well as others in the Lausanne area and across Switzerland, are encouraged to attend. We look forward to fostering interdisciplinary collaboration and exchanging ideas on the latest innovations in AI and their application in the medical field.

Prof. Raphael Gottardo
Prof. Mauro Oddo
Prof. Jean Louis Raisaro
Prof. Marianna Rapsomaniki

Program

The symposium will be in english and held in person only.

9:00 - 9:15	Welcome and introduction: A Historical Perspective Prof. Mauro Oddo (CHUV)
9:15 - 12:00	MORNING SESSION Moderator: Prof. Raphael Gottardo (CHUV)
09:15 - 10:00	AI in Medicine: Toward Biological AGI Dr Thomas Clozel (CEO & Co-Founder Owkin)
10:00 - 10:45	Applications Navigating Tomorrow: AI's Current Landscape and Future Horizons
	10:00 - 10:15 Towards Trustworthy Multilingual LLMs Prof. Martin Jaggi (EPFL)
	10:15 - 10:30 Precision Oncology in the Era of AI Prof. Marianna Rapsomaniki (CHUV)
	10:30 - 10:45 Q & A
10:45 - 11:15	<i>Coffee break</i>
11:15 - 12:00	Risks & Challenges of AI in Biomedicine
	11:15 - 11:30 Legal Aspects of AI in the Medical Fields: an Overview Prof. Frédéric Erard (UNIL)
	11:30 - 11:45 Bringing AI from Research to the Bedside in a Swiss University Hospital Prof. Jean Louis Raisaro (CHUV)
	11:45 - 12:00 Q & A
12:00 - 13:15	<i>Lunch break</i>
13:15 - 17:00	AFTERNOON SESSION Moderator: Prof. Marianna Rapsomaniki (CHUV)
13:15 - 14:15	Clinical AI Ecosystem in Lausanne
	13:15 - 13:30 Generative AI for Reconstructing Complex Tissue Structures Prof. Maria Brbic (EPFL)
	13:30 - 13:45 Building the Missing Pieces in Machine Learning for Radiology Dr Jonas Richiardi (CHUV)
	13:45 - 14:00 AI for Epileptic Seizure Detection Prof. Philippe Ryvlin (CHUV)
	14:00 - 14:15 Q & A
14:15 - 15:15	Lightning Talks by Students and Postdocs 10 selected 5 min presentations
15:15 - 15:45	<i>Coffee break</i>
15:45 - 16:30	Multimodal Data Integration: From Biomarkers to Mechanisms Prof. Caroline Uhler (Broad Institute, MIT)
16:30 - 16:45	Students Award
16:45 - 17:00	Closing Remarks Prof. Raphael Gottardo (CHUV)
17:00 - 18:00	<i>Aperitif</i>

Abstract Submission

Are you an early-career researcher (Bachelor, Master, PhD or Postdoc) working on AI for health? Share your work with us and get selected for a lightning talk! Best presentations will win a price.

Submit your abstract (200 words max.) by November 1st, 2024 at bdsc.info@chuv.ch

Venue

CHUV
Centre hospitalier universitaire vaudois
Auditoire César Roux
Rue du Bugnon 46
1005 Lausanne

Registration

Registration required by November 4, 2024

Fees
Regular: CHF 50.00
Student (Bachelor, Master, PhD and Postdoc): Free

Lunch and aperitif included
Contact: bdsc.info@chuv.ch

