

**THE THIRD P2M ROUEN
INTERNATIONAL SYMPOSIUM**

ROUEN SCHOOL OF HEALTH SCIENCES
UFR SANTÉ ROUEN

INTERNATIONAL SYMPOSIUM

P2M

PATHWAYS PRECISION MEDICINE



APRIL 3RD | 4TH 2025
ROUEN NORMANDIE FRANCE

Pathways
to PRECISION MEDICINE
FROM RARE TO COMMON DISEASES

Prof. Soumeya BEKRI (President)
Prof. Abdellah TEBANI (Chair)

PROGRAM



We are pleased to welcome you to **the third edition of the International Pathways to Precision Medicine Symposium (P2M Symposium)** organized by Soumeya BEKRI and Abdellah TEBANI (Metabolic Biochemistry Department – Rouen University Hospital / University Rouen) which takes place at the Rouen Health Campus (UFR Santé – Bâtiment Stewart) on 3rd and 4th, April 2025.

Precision Medicine opens a new medical era and reimagines medicine to focus on the prediction, prevention and treatment of diseases with high technological precision and clinical accuracy. In a game-changing move, healthcare providers leverage patient-specific data to understand disease susceptibility and tailor intervention. This approach is set to revolutionize how we diagnose and treat diseases, paving the way for more personalized, effective healthcare solutions and accountable data-driven medicine.

This symposium brings together international leaders in the different fields of Precision Medicine. Academic, industrial, and healthcare stakeholders will meet for two days to foster collaboration, address challenges, and define actions for large-scale leverage of an integrated data healthcare ecosystem for a single purpose: to improve human health. Get ready for the future of healthcare!

This edition will cover a wide range of topics, from the ever-changing role of AI in medicine to the ethical considerations guiding precision medicine practices. The foundational principles to develop accountable and effective data-driven medicine will be discussed. We will also explore innovative approaches to treating rare diseases and reimagining therapies. Parsing disease complexities through phenotype investigative lenses will be presented.

We will dive into cutting-edge medical imaging advancements and data-driven disease management strategies. Along these conversations, we will ponder the transformative potential of generative AI in reshaping medicine. As we navigate social determinants of health disparities, we will advocate for inclusivity and patient empowerment in the precision medicine era. Additionally, we will discuss healthcare readiness, and workforce empowerment, highlighting the importance of nurturing the next generation of healthcare professionals to improve patient outcomes and streamline operational efficiency.

Discover drug repositioning, gene therapy, diagnostics, biomarkers, omics-based molecular profiling, medical imaging, large-scale screening, critical care, rare diseases, cancer, and more. We will also demystify, electronic health records, federated learning, blockchain, artificial intelligence, large language models, generative AI, digital health, and empowered clinical trials. But the journey doesn't stop there – we'll also challenge the implementation, ethical, and societal issues raised by precision medicine.

Embracing precision medicine is a bold yet essential move towards a technically efficient, clinically relevant, and ethically accountable healthcare system.

Join us for an exciting journey into the world of Precision Medicine and be the change you want to see in healthcare!



Prof. Soumeya BEKRI
Symposium President (Co-Founder)
*Head of the Department of Metabolic Biochemistry
AIMS - Systems Medicine Lab
Rouen University Hospital /
Rouen Medical School Rouen – France*



Prof. Abdellah TEBANI
Symposium Chair (Co-Founder)
*Department of Metabolic Biochemistry
AIMS - Systems Medicine Lab
Rouen University Hospital /
Rouen Medical School Rouen – France*

DAY 1 THURSDAY APRIL 3RD, 2025

8 AM > 8:55 AM REGISTRATION

9 AM > 9:55 AM

OPENING CEREMONY / WELCOME ADDRESS

Chairs: Soumeya BEKRI & Abdellah TEBANI, Rouen University Hospital, Rouen, FRANCE

10 AM > 10:55 AM

SESSION 1 - OPENING KEYNOTE - THE HUMAN TOUCH

Chair: Abdellah TEBANI, Rouen University Hospital, Rouen, FRANCE

The Human Factor in AI-Driven Medicine.

Peter LAUSSEN, Harvard Medical School, Boston Children's Hospital, Boston, USA

11 AM > 11:25 AM COFFEE BREAK

11:30 AM > 1 PM

SESSION 2 - BEYOND PROMISES

Chair: Carole LINSTER, Luxembourg University, Esch-sur-Alzette, LUXEMBOURG

The Ethical Landscape in Precision Medicine.

Eva WINKLER, Heidelberg University Hospital, Heidelberg, GERMANY

Newborn screening of Spinal Muscular Atrophy: A pilot program in France.

Didier LACOMBE, Bordeaux University Hospital, Bordeaux, FRANCE

Newborn Screening for Lysosomal Diseases: Insights from the LysoNeo Study.

Abdellah TEBANI & Soumeya BEKRI, Rouen University Hospital, Rouen, FRANCE

1:05 PM > 1:55 PM LUNCH BREAK

2 PM > 2:30 PM

SESSION 3 - PRECISE CARE FOR RARE

Chair: Olivier LIDOVE, La Croix Saint Simon Hospital, Paris, FRANCE

Mechanism-Driven Therapies in Rare Diseases.

Manuel SCHIFF, Necker Enfants Malades - Assistance Publique, Hôpitaux de Paris, Paris, FRANCE

2:35 PM > 3 PM

POSTER FLASH TALKS

Searching for small molecule-based therapies for ATP13A2 deficiencies.

Ursula HEINS-MARROQUIN, Luxembourg Centre for Systems Biomedicine, Esch-sur-Alzette, LUXEMBOURG

Deciphering cellular and molecular mechanisms of immune infiltration and Tertiary Lymphoid Structure organization in Non-Small Cell Lung Cancer.

Pierre-Alexis DA COSTA, Sorbonne University, Paris, FRANCE

Antibiotic resistance genes diversity and antimicrobial effects in the vaginal microbiome during pregnancy.

Nassim BOUTOUCHENT, Rouen University Hospital, Rouen, FRANCE

Predicting NSCLC patient response to radio-chemotherapy.

Zacharia MESBAH, Henri Becquerel Cancer Center, Rouen, FRANCE

Use of Fourier transformation of monitoring waveforms movement detection in sedated patients.

Franklin DUCATEZ, Boston Children's Hospital, Boston, USA

3:05 PM > 4:05 PM

SATELLITE EVENT - ORCHARD



Autologous Ex Vivo Gene Therapies Development in Rare Diseases: in the Perspective of the Global Gene Therapy Landscape.

Simon JONES, Manchester Center for Genomic Medicine, Manchester, UK

4:10 PM > 4:25 PM COFFEE BREAK

4:30 PM > 5:30 PM

SESSION 4 - PLENARY KEYNOTE - HIDDEN PATTERNS

Chair: Soumeya BEKRI, Rouen University Hospital, Rouen, FRANCE

Parsing Disease Complexity: A Phenotype-guided Perspective.

Joseph NADEAU, Maine Medical Center Research Institute, Main, USA

DAY 2 FRIDAY APRIL 4TH, 2025

8 AM > 8:40 AM REGISTRATION

8:45 AM > 10:25 AM

SESSION 5 - TOWARDS EMPOWERMENT

*Chairs: Pierre VERA, Henri Becquerel Cancer Center, Rouen, FRANCE
& Stefan DARMONI, Rouen University Hospital, Rouen, FRANCE*

Digital Transformation and Social Determinants of Health: Beyond Disparities.

Sarah WAMALA ANDERSSON, Mälardalen University, Västerås, SWEDEN

Enabling Next-Gen Healthcare Workforce: From Vision to Reality.

Hatim ABDULHUSSEIN, Health Innovation Kent Surrey Sussex, Keele, UK

Empowering the Patient in the Precision Medicine Era.

Mette Nordahl SVENDSEN and Mie Seest DAM, University of Copenhagen, Copenhagen, DENMARK

10:30 AM > 10:55 AM COFFEE BREAK

11 AM > 11:30 AM

SESSION 6 - BEYOND THE LABEL

Chair: Frédéric BARBEY, Lausanne University Hospital, Lausanne, SWITZERLAND

Drug repositioning in CLOVES Syndrom.

Guillaume CANAUD, Necker Enfants Malades - Assistance Publique, Hôpitaux de Paris, Paris, FRANCE

11:35 AM > 12:05 PM

WORKSHOP - THERMOFISHER SCIENTIFIC

ThermoFisher
SCIENTIFIC

12:10 PM > 1:20 PM LUNCH BREAK

1:25 PM > 3:05 PM

SESSION 7 - FILLING THE GAPS

*Chairs: Ivana DABAJ, Rouen University Hospital, Rouen, FRANCE
& Pierre DECAZES, Henri Becquerel Cancer Center, Rouen, FRANCE*

Next-Generation Imaging in Fetal and Newborn Medicine.

Ellen GRANT, Harvard Medical School, Boston Children's Hospital, Boston, USA

Data-Empowered Strategies in Polykystic Kidney Disease.

Fouad CHEBIB, Mayo Clinic, Florida, USA

Leveraging Collective Intelligence for inclusive Global Healthcare.

Shadi ALBARQOUNI, University of Bonn, Bonn, GERMANY

3:10 PM > 3:55 PM

SESSION 8 - CLOSING KEYNOTE - A LEARNING JOURNEY

Chair: Nathalie BEDNAREK, Reims University Hospital, Reims, FRANCE

Precision Medicine: Lessons From the Fields.

Mark RUBIN, University of Bern, Bern, SWITZERLAND

4 PM > 4:15 PM

POSTER PRIZE - CLOSING REMARKS

Chairs: Soumeya BEKRI & Abdellah TEBANI, Rouen University Hospital, Rouen, FRANCE