

# PAVING THE ROAD FOR AI IN LABORATORY MEDICINE

APPLICATIONS, CHALLENGES  
AND IMPLEMENTATIONS

11-12 MAY 2026

**ROME**, VILLA MONDRAGONE  
UNIVERSITY OF TOR VERGATA



In the past several years, artificial intelligence (AI) has penetrated and influenced our lives in more ways than we can imagine. AI tools are routinely used for example to create or translate a text, plan an experiment, and analyze data. In medicine, in general, and laboratory medicine, in particular, AI utility has been explored and successfully implemented in numerous applications and scenarios.

The 1<sup>st</sup> Rome Forum will deeply dive into current AI applications in laboratory medicine and critically evaluate them. But most importantly, it will provide a glimpse into the future to see what is on the horizon. The AI applications which will be explored include:

- Pre-, post-, and analytical tools
- Routine administrative clinical lab functions and AI implementation challenges

- Content creation for medical education and research tools
- Algorithm development and validation in various clinical scenarios
- Omics integration

In addition to providing a provocative program, The Rome Forum offers several unique features:

- Fully interactive and untraditional means of delivering information
- Includes all stakeholders such as clinicians, laboratorians, IT and IVD scientists and regulators
- Limited number of attendees of 150 to provide the perfect environment for discussion and exchange of ideas in an idyllic setting, a hill-top 14th century papal villa

## Preliminary Sessions & Speakers

Co- Chairs: Damien Gruson, Nader Rifai

### Keynote address:

AI in Laboratory Medicine, Fei Wang (US)

### Sessions:

#### AI applications in the pre-analytical Phase

Brendan Graham (US), Christopher-John Farrell (Australia)

#### AI role in the analytical and post-analytical Processes

Michael King (Germany), Yan Liu (China), Stephen Master (US)

#### Adoption of AI Models Built on Laboratory Data?

Umar Ansari (US), Jacqueline Lammert (Germany), Sarina Yang (US)

#### Utility of AI tools in medical education and research

Nader Rifai (US), Fei Wang (US), Ian Young (UK)

#### Clinical AI Validation Pathways in Cardiovascular Medicine

Dimitrios Doudesis (UK), Cedric Hermans (Belgium), Benoît Macq (Belgium)

#### Sepsis Models: Past failure, future success?

Speakers to be determined

#### AI role in the building of a cross-disciplinary governance for multi-omic integration

Christa Cobbaert (Netherlands), Elie Fux (Germany), Xu Bo (China), Andrew South (US)

## Scientific committee

Damien Gruson, *Co-chair*

Nader Rifai, *Co-chair*

---

Sergio Bernardini

Andreas Blettenbeck

Yan Liu

Steve Master

Michael King

Sarina Yang



Organising secretariat  
MZ Events  
patrizia.sirtori@MZevents.it