ARTIFICIAL INTELLIGENCE FOR ONCOLOGY

PRESIDENT OF THE CONFERENCE:
Arsela Prelaj

SCIENTIFIC PROGRAM

SESSION 1
BACKGROUND ON AI METHODOLOGIES AND THEIR USE IN THE CLINICAL PRACTICE
09:50 Machine Learning for real-world data analysis - F. Trovè-Milan
10:10 Deep Learning models for imaging and genomics - J. Vibert-Paris
10:30 Explainable Trustworthy AI: translating AI into the clinical practice - A.L.G. Pedrocchi-Milan
10:50 Discussion

SESSION 2
AI MODELS USING IN A NEW AGE FOR IMAGING IN ONCOLOGY
CHAIRS: L. Agnelli-Milan, M. Boeri-Milan, A. Cicchetti-Milan
11:10 Digital pathology - bolstering its impact through AI toolsets - J. Dolezal-Chicago
11:30 Radiomics applications of AI for cancer research - R. Pérez Lopez-Barcelona
11:50 AI as a double reader on images from screening programs - U. Pastorino-Milan
12:10 Discussion

SESSION 3
Harnessing the Power of AI for Multimomics Data Integration and Discovery
13:30 Multimomics data and predictive AI for cancer immunotherapy - S. Shah-New York
13:50 AI supporting the discovery of new molecules and biomarkers - A.T. Pearson-Chicago
14:10 AI-based multimodal data integration applied to oncology - J. N. Kather-Dresden
14:30 Discussion

SESSION 4
Adapting Data Storage Models and Regulatory Frameworks to the AI Paradigm
CHAIRS: S. Damian-Milan, M. Ganzinelli-Milan, S. Kosta-Copenhagen
14:50 Innovative data repositories and platforms designs - R. L. Grossman-Chicago
15:10 AI-powered wearables and medical devices for novel endpoints monitoring - E. Ambrosini-Milan
15:30 Specifics of the regulatory and cybersecurity frameworks in the AI field - E. Biasin-Leuven
15:50 Discussion

SESSION 5
Beyond Real-life Implementation, New Avenues for Innovation
CHAIRS: C. Genoa-Genoa, G. Lo Russo-Milan, C. Proto-Milan
16:30 AI to accelerate clinical trials’ design and implementation - M.C. Garassino-Chicago
17:10 Beyond AI: Quantum Science - L. Gagliardi-Chicago
17:30 Discussion

ROUND TABLE
How to effectively exploit Big Data and AI innovation in oncology? Finding common ground for academic, policy makers and industry stakeholders
CHAIRS: A. De Toma-Varese, D. Signorelli-Milan
DISCUSSANT: P. Auletta-Milan, L. Castello Branco-Algarve, D. Monzani-Palermo
18:20 Take-home messages - A. Prelaj-Milan