

ROME TECHNOPOLE - SPOKE 6 INTERNATIONAL YOUNG RESEARCHER WORKSHOP

28 June 2024

La Ginestra Room - Dept. of Chemistry
Cannizzaro Building - Sapienza Università di Roma

9:30 - 10:00 OPENING SESSION

Roberto Gualtieri | Delegation - Mayor of Rome (*to be confirmed*)

Tiziana Petucci - Lazio Region | Managing Authority PR Lazio FESR 2021-2027 (*to be confirmed*)

Maria Sabrina Sarto - Spoke 1 Coordinator of Rome Technopole Foundation & Vice-Rector for Research of Sapienza Università di Roma

Sabrina Saccomandi - General Director of Rome Technopole Foundation

Franco Fossati - Scientific Director of Rome Technopole Foundation

Luciano Galantini - Spoke 6 Coordinator of Rome Technopole Foundation

10:00 - 10:12 **Eugenio Oropallo** - Sapienza Università di Roma

An integrated metaverse solution in the healthcare sector: a case study

10:12 - 10:24 **Fabrizio Marra** - Sapienza Università di Roma

Wearable Systems based on nanomaterials for Health and Safety

10:24 - 10:36 **Lucia Giuliano** - Sapienza Università di Roma

Electron Linac for FLASH Radiotherapy @La Sapienza

10:36 - 10:48 **Valerio Chiarini** - Takis S.r.l.

MATCH: An in-silico drive-through for mAbs discovery

10:48 - 11:00 **Francesca Michela Narcisi** - Sapienza Università di Roma

Development of new antibodies against glioblastoma

11:00 COFFEE BREAK

11:30 - 11:42 **Giovanni Bulfaro** - Sapienza Università di Roma

Development and characterization of high-affinity monoclonal antibodies targeting ErbB3

11:42 - 11:54 **Jacopo Forte** - Sapienza Università di Roma

Essential Oil Nanoemulsions: a promising strategy to counteract Bacterial Infections

11:54 - 12:06 **Valentina Peluzzi** - Università Campus Bio-Medico di Roma

Evaluation of Anti-HER3 Antibody and Bispecific T-Cell Engager in a 3D model

12:06 - 12:18 **Matteo Carpi** - Sapienza Università di Roma

Rome Technopole SIESTA Open Lab: a platform for drug discovery in mice and humans for sleep-wake disorders

12:18 - 12:30 **Martina Vincenzi** - Sapienza Università di Roma

Engineered NAPE-PLD-expressing L. Paracasei improves metabolic syndrome and ameliorates depressive-anxiogenic behaviour in mice by on-demand OEA production

12:30 - 12:42 **Andrea Isidori** - Sapienza Università di Roma

Liver-on-chip to explore haemodynamic metabolism

12:45 LUNCH BREAK

14:15 - 14:27 **Luca Pasquini** - ISS – Istituto Superiore di Sanità

Development of a Flow Cytometry-based alert procedure applied to pharma production and drug quality control

14:27 - 14:39 **Italo Cesidio Fantozzi** - Università degli Studi di Roma Tor Vergata

Technologies and Advanced Engineering for Operational Excellence

14:39 - 14:51 **Marco Raoul Marini** - Sapienza Università di Roma

XR and Cobotics in industry 4.0

14:51 - 15:03 **Simone Guarino** - Università Campus Bio-Medico di Roma

Two novel Frameworks for Cyber-Physical Anomaly Detection in Industrial Control Systems

15:03 - 15:15 **Marco Cirelli** - Università degli Studi di Roma Tor Vergata

Joint lab for developing proof-of-concept level activities through stable collaboration between research and industrial partners

15:15 - 15:27 **Nicola Fantasia & Daniele Melloni**
Almaviva – Università degli Studi della Tuscia

BIXI LAB - BIM, IoT, Extended Reality & Innovation

15:27 - 16:39 **Romeo Lanzino** - Sapienza Università di Roma

Faster Than Lies: Real-time Deepfake Detection using Binary Neural Networks

15:39 - 15:51 **Federico Fontana** - Sapienza Università di Roma

BNNAction-Net: Binary Neural Network on Hands Gesture Recognitions

15:51 COFFEE BREAK

16:21 - 16:33 **Marco Greco** - Sapienza Università di Roma

UPCYCLING BY-PRODUCTS FROM AGROINDUSTRY AND BIOREFINERIES IN SUSTAINABLE AGROBIOLOGICALS

16:33 - 16:45 **Orlando Palone** - Sapienza Università di Roma

Syngas Cleaning by Chemical Looping Conversion of Tars from Hazelnut Shells Pyrolysis/Gasification

16:45 - 16:57 **Annalisa D'Arco** - Sapienza Università di Roma

FT-IR spectroscopy coupled with Machine Learning for highly sensitive detection and discrimination of gaseous Volatile Organic Compounds

16:57 - 17:09 **Daniele La Torre** - Catalent

Case study: validation of a chromatographic method for the quantitation of a specific impurity for a main ingredient (synthetic polymer) in a finished product

17:10 CLOSING REMARKS

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WORKSHOP ORGANIZERS: Maria Sabrina Sarto & Luciano Galantini

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