

Summer workshop of the PhD Program in Science and Technology of Bio and Nanomaterials

16-17 July 2025

Sala Conferenze A.A. Orio & G. Zanetto

16 July 2025

14.00-14.25 **Giulia Fischetti**

Uncertainty quantification for reliable automatic multiplet classification in Nuclear Magnetic Resonance (NMR) spectroscopy

14.25-14.50 **Violina Potlog**

Implementation of Nanopore Sequencing to speed up and improve the rAAV production stage for cell and gene therapy

14.50-15.15 **Nicolò Spigariol**

Sustainable solutions for the application of circular economy to the industrial manufacturing

15.15-15.35 **Mahnoor Hassan**

Precursor/Solvent Dependent CDs for Luminescent Solar Concentrators

15.35-15.55 **Davide Frigatti**

Alternative solvents and innovative synthesis routes for the formation of dimers

15.55-16.15 **Ilaria Bertuol**

Polymeric materials with functional properties for surface modification and functionalization

16.15-16.35 **Jacopo Moi**

A diffusive model to quantify usability of public green areas

16.35-16.55 **Muhammad Ali**

Network analysis of complex systems in the venture capital market

16.55-17.10 **Cristian Fregonese**

Computational design of macrocyclic peptide for precision delivery of nucleic acid-based therapeutics

Enjoy PhD life

Aperitivo di networking

17 July 2025

9.20-09.40 **Silvia Multari**

Predicting molecular interactions with Artificial Intelligence

9.40-09.55 **Zhihao Xiang**

Light-Responsive Nanostructures Based on Bio-Templated CdS and ZnS for Environmental Photocatalysis

9.55-10.10 **Jacopo Cangiotti**

Singly-doped Cr³⁺ and Mn⁵⁺-activated Near-Infrared Emitting (Nano-)Materials for Contactless Temperature and Pressure Sensing

10.10-10.25 **Michele Crozzolin**

Studies on doped fluorides nanoparticles: luminescence and ROS generation

Coffee Break

11.00-11.20 **Giulia Cazzador**

Development of Greener Electrochemical Wearable Biosensor for Biomarkers detection

11.20-11.35 **Alexandru Dron**

Electroactive and bio-responsive inks based on modular and degradable 2D electrocatalysts

11.35-11.50 **Nicola Furlan**

Development of electrochemical immunosensors for the quantification of biomarkers for amyotrophic lateral sclerosis in-vitro models

11.50-12.10 **Sabrina Molinaro**

Study of archaeological glass and development of an innovative glass stabilization treatment

12.10-12.30 **Amir Abdelmohsen**

Nanostructured materials in synergy with 2D materials for the protection of archaeological metallic objects

12.30-12.50 **Edoardo Tartaglia**

Innovative conservation treatment for archaeological bronzes based on nanostructured materials

12.50-13.05 **Sofia Scipioni**

Cellulose-based nanostructured materials for paper restoration (a porte chiuse)

Lunch

14.30-14.50 **Kübra Koçak**

Exploring organoid-bacteria co-culture for cancer treatment and prevention: a multidisciplinary approach

14.50-15.05 **Sara Mennella**

Gut microbiota dynamics to SARS-CoV-2 infection in a gut in-vitro system

15.05-15.25 **Giorgia Schinello**

39 Investigating the role of Multimerin-2 in tumor-associated vessels

15.25-15.40 **Anna Bertocco**

Osteoconductive and antibacterial 3D printed calcium phosphate scaffolds with hierarchical porosity for applications in biomedicine

15.40-16.00 **Federico Surra**

Simulation of the evolutionary dynamics of HGSOC with in-silico and in-vivo models

16.00-16.15 **Laura Tripodi**

precision nanoTherapy in ovarian cancer

16.15-16.30 **Martina Glerean**

Delivery of self-therapeutic nanoparticles through biomimetic membrane coating

16.30-16.45 **Gloria Laudato**

Assessment of tumor evolution using a single – cell metabolic liquid biopsy in droplet microfluidics

16.45-17.05 **Eleonora Botter**

39 Omo- and Hetero-bimetallic complexes bearing organopalladium fragments with promising anticancer properties