



# AMRAMR 1<sup>st</sup> WORKSHOP “(Nano)materials with antimicrobial activity and other applications”

HORIZON-MSCA-2022-SE-01-01 AMRAMR 101131231

Advanced Multidisciplinary Research for Antimicrobial Resistance

**Program /** València, September 23<sup>rd</sup>-24<sup>th</sup>  Assembly Hall

**TOPICS:** Bio application - Photocatalysis - Coating materials - Type of materials: up-conversion nanoparticles, perovskite nanomaterials, TiO<sub>2</sub> nanoparticles, diamond nanoparticles, etc.

## September 23<sup>rd</sup>

15:20 - 15:30

### **Introduction to the “1st workshop AMRAMR”**

Julia Pérez Prieto / Universitat de València (UV)

15:30 - 16:10

### **“Diamond based materials for advanced engineering applications”**

Haitao Ye / University of Leicester

16:10-16:50

### **“Surfaces functionalized with metallic and apatite-based coatings to provide antimicrobial and biocompatible materials for biomedicine”**

Daniele Ghezzi / Università di Bologna

16:50-17:20 *Coffee Break*

17:20-18:00

### **“Wet chemistry synthesis of sulfide-based nanoparticles”**

Yiquan Wu / Alfred University Foundation INC

18:00-18:40

### **“Influence of the textural, chemical, and morphological properties of nanomaterials on the development of antimicrobial coatings”**

Juliana Sousa, Diana Alves / I Laboratorio Ibérico Internacional de Nanotecnología

Room for discussion specific miniprojects

## September 24<sup>th</sup>

9:30-10:10

### **“Fabrication of Functional Organic Thin Films and Micro Devices”**

Ran Liu / Fudan University

10:10-10:50

### **“Assessment of Nanomaterials: Toxicity and Antimicrobial Potential ”**

Helena Oliveira, Sergio Marques / Universidad de Aveiro

10:50-11:20 *Coffee Break*

11:20-12:00

### **“Upconversion nanoparticles: foundations for nanohybrids and nanostructures design”**

María González Béjar / Universitat de València (UV)

12:00-12:40

### **“Photocatalysis and antimicrobial coatings deposited by magnetron sputtering”**

Parnia Navabpour / Hailin Sun

12:40-13:20

### **“Semiconductor nanocrystals with photocatalytic activity under visible light”**

Raquel E. Galian / Universitat de València (UV)

13:20-13:30 *Closing remarks*