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NANOEMCA Consortium
Research | Training | Networking

Funded by the European Union

INVITATION
to participate in

Training Module 1 – Online

Periodic Mesoporous Organosilica (PMO) Materials Research, Open Science, Responsible Publishing and Career Development

From synthesis and characterization to research dissemination, networking and intellectual property

Date(s)
26–30 October 2026

Duration
10 hours

Platform
Microsoft Teams

Trainer(s)
NANOEMCA consortium

Target audience
Young researchers

Learning Objectives

Synthesis & Functionalization
Explain the principles underlying the synthesis of Schiff base functionalized PMOs and relate their structural features to potential applications.

Solid-State NMR
Explain basic principles and interpret simple examples of its use in materials characterization.

Spectroscopic Techniques
Explain the fundamentals of UV-Vis, FTIR, and XPS, and identify the complementary information these techniques provide about materials.

EPR & Magnetic Properties
Explain basic concepts of magnetism and electron paramagnetic resonance (EPR) and relate them to the magnetic properties and characterization of metal oxide nanoparticles, including examples embedded in PMOs.

Electron Microscopy
Explain the basic principles of electron microscopy, identify key sample preparation requirements, and interpret simple microscopy images in relation to material morphology and structure.

Structure–Property Relationship
Relate characterization results to the composition, structure, and properties of materials.

Open Science
Apply open science principles to research data management and open access publication.

Responsible Publishing
Apply good practices in scientific authorship and select appropriate approaches for disseminating research publications.

Career Development & IP
Identify strategies for professional progression and networking, and explain basic approaches to protecting intellectual property arising from research.

Horizon Europe/MSCA
Identify the requirements relevant to managing and sharing publications, research data, software, and other research outputs, and apply them to examples discussed in the module.

Program (CET)

Date / Time (CET)	Session	Topics and Activities	Trainer
26 October 14:00	Welcome and Introduction	Module overview, learning objectives, and participant expectations	Claudia Simonescu
26 October 14:10	Schiff Base-Functionalized Periodic Mesoporous Organosilicas (PMOs): Synthesis, Characterization and Applications	Key concepts and topics	Florina Dumitru
27 October 14:00	Basics Concepts of Solid-State NMR for Material Scientists	Key concepts and topics	Pierre Florian
28 October 14:00	Good Practice in Authorship & Dissemination of Publications	Practical exercises, case studies, or group discussion	Filomena Silva
28 October 15:00	EPR and Magnetic concepts aligned with metal oxide nanoparticles	Key concepts and topics	Floriana Tuna
29 October 14:00	Spectroscopic Techniques from Fundamentals to Applications: UV-Vis, FTIR and XPS	Key concepts and topics	Ahmed Malek Djaballah
29 October 15:30	Introduction to Electron Microscopy: from sample preparation to data interpretation	Key concepts and topics	Bogdan Vasile
30 October 14:00	Open Science in practice: from research data to open access publication	Key concepts and topics	Eugenia Eftimie Totu
30 October 15:30	How to Plan Your Career in under 90 Minutes: An introduction to Professional Progression, Networking and Protecting Your Intellectual Property	Key concepts and topics	Alan Whiteside

Participants from Multiple Countries

Romania · Spain · United Kingdom · Colombia · Türkiye · Germany · France · Italy · Netherlands · Norway · Malaysia



15 participants from universities and research institutions in Romania, Spain, and other countries, including PhD students, researchers and engineers.

Time Zone Information (Monday–Friday, 26–30 October 2026)



- **08:00** Colombia (UTC-5)
- **13:00** United Kingdom (UTC+0)
- **14:00** Germany · France Spain · Netherlands Norway · Luxembourg Italy (UTC+1)
- **15:00** Romania Estonia (UTC+2)
- **16:00** Konya, Türkiye (UTC+3)
- **21:00** Malaysia (UTC+8)

The program schedule is in CET (Central European Time).

Connecting Researchers for a Sustainable Future

Advanced Materials for a Better Society

Research | Collaboration | Innovation

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