

DREAM Nano Final Project Meeting | 21 Nov 2025 | Dublin, Ireland
Co-organized by University College Dublin and Universidad Complutense de Madrid

Designing Responsive Advanced Materials for Nanomedicines (DREAM Nano) is a Una Europa Seed Funded initiative uniting experts across Europe to develop low-cost, sustainable nanomaterials for biomedical applications. Our aim is to build a collaborative, interdisciplinary team to tackle challenges in nanomedicine, with a focus on accessibility, diagnostics, and cancer therapy.

Programme

9:30 – 10:00 Registration/tea & coffee

10:00 – 11:00 Lab tours/tea & coffee

11:00 – 11:20 Álvaro Martínez-del-Pozo, Universidad Complutense de Madrid, Turning pore-forming toxic proteins into plastic-degrading nanoreactors

11:20 – 11:40 Juan Pedro Cascales Sandoval, Universidad Complutense de Madrid, From wearables to organ-on-chip: the power of continuous sensing

11:40 – 12:00 Andrés Guerrero Martínez, Universidad Complutense de Madrid, Ultrafast-assisted fabrication of metal nanoparticles

12:00 – 12:20 Helena Gavilán Rubio, Universidad Complutense de Madrid, Magnetic nanoparticles as functional materials: structure–performance relationships in hyperthermia and magnetic particle imaging

12:20 – 13:50 Lunch

13:50 – 14:10 Jaclyn Parris, Universität Zürich, Anticancer activity of polyoxometalates

14:10 – 14:30 Ewelina Lipiec, Jagiellonian University, From nanogaps to nanomedicine: revealing local molecular structures through plasmonic probing

14:30 – 14:40 Hanqing Yu, Blafar, Injectable hydrogel project: safe and customised injectable hydrogel platform

14:40 – 14:50 Xi Wang, Branca Bunús, Revolutionizing viral vector production: biodegradable hyperbranched poly (β -amino ester)-based transfection technology boosts yields and efficiency

14:50 – 15:10 Maryia Rohava, University College Dublin, EU funding opportunities for DREAM Nano

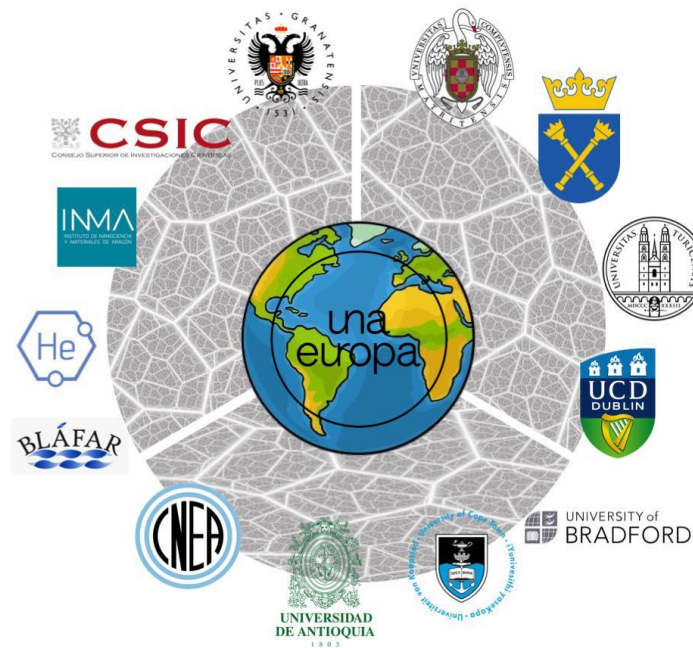
15:10 – 15:40 Tea & coffee

15:40 – 16:00 Future planning discussion and closing remarks



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 Andrés Guerrero Martínez, Universidad Complutense de Madrid
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 Juan Pedro Cascales Sandoval, Universidad Complutense de Madrid
 María Teresa Villalba Díaz, Universidad Complutense de Madrid
 Dawid Lupa, Jagiellonian University
 Ewelina Lipiec, Jagiellonian University
 Yu Wang, Universität Zürich
 Jaclyn Parris, Universität Zürich
 Walker Marks, Universität Zürich
 Hanqing Yu, Blifar
 Xi Wang, Branca Bunús
 Maryia Rohava, University College Dublin
 Qiancheng Zhang, University College Dublin
 Claudia Sosa Espada, University College Dublin
 Brian Rodriguez, University College Dublin
 Susan Quinn, University College Dublin
 Hend Shayoub, University College Dublin



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