



Research

FROM CELLS TO SENSORS: DISCOVERING THE HIDDEN WORLD OF NANOMATERIALS

26 September 2025

17:00 – 00:00

Ex Monastero degli Olivetani

viale San Nicola

73100 Lecce

[View venue](#)

Activities proposed

Laboratories

For

For everyone

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Visitors will explore how scientists design and use smart materials to study life at the microscale and advance personalized medicine. Hands-on experiments will show how to create hydrogels that mimic human tissues, synthesize fluorescent nano- and microparticles sensors in real time, and visualize cells through optical microscopes. Interactive games and puzzles will engage participants of all ages, bringing complex concepts like pH, oxygen, cell behavior, and light-matter interaction to life in a fun and accessible way.

Visitors will also discover flagship projects, ERC-PoC HySense, ERC-StG INTERCELLMED, AIRC MFAG, TecnoMed Puglia, PNRR-PNC Fit4MedRob, and FSC 2014-2020 (T4-AN-01), addressing today's major scientific and medical challenges.

Topics

Nano- and quantum technologies Research Science and Society Technological innovation

Disciplines

Biology and Biotechnology Chemistry and Materials Science Engineering and Computer Science
Interdisciplinary Medicine and Pharmacology Physics and Astronomy

Organization	<u>Consiglio Nazionale Delle Ricerche (CNR)</u>
Department/Institute	Nanotechnology Institute
Laboratory	
Partner Organizations	<u>Consiglio Nazionale Delle Ricerche (CNR)</u>
Scientific Responsibles	M. Cedrùn Morales, E. Soprano, G. Vanoni, H. Iuele, G. Grasso, F. Colella, S. Forciniti, A. C. Siciliano, V. Onesto, F. Carnevali, R. Bove, E. D'Amone, S. Nigro, G. Gigli, L. L. del Mercato

More events in Lecce

[View all](#)

Art, culture and creativity

THE DIRECTOR TELLS... LIVING IN THE MESSAPIAN ERA

UniSalento @ Museo Diffuso Cavallino

10:30

Environment and sustainability

SAHARAN DUST: TRANSPORT EPISODES TOWARD SOUTHERN ITALY. HOW TO IDENTIFY AND STUDY THEM USING EXPERIMENTAL OBSERVATIONS AND NUMERICAL MODELS.

CNR @ Olivetani

All day

Nano- and quantum technologies

GUIDED BY WATER - LIQUID FIBERS WITH LASER AND WATER JET EXPERIMENT

UniSalento @ Olivetani

17:00

Nano- and quantum technologies

A MATTER OF (NANO)CHEMISTRY 2.0

CNR @ Olivetani

All day

With the support of

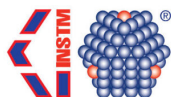
National network



**NOTTE EUROPEA
DEI RICERCATORI
IN ITALIA**

Partners





Sponsorships





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Previous editions

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