

CERIC: a case study of science communication in a distributed research infrastructure

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PAERI 24

About CERIC-ERIC

CERIC is a **European research infrastructure consortium**, built by unifying some of the best **complementary** facilities in Central and Eastern Europe, allowing multidisciplinary research in all fields of **advanced materials, biomaterials and nanotechnology** (with focus on **energy and life sciences**)



CERIC-ERIC in brief

CERIC started in central-eastern Europe and now extends to **11 countries**, considering Partner and Associated Facilities

CERIC gives researchers free access to **over 60 different techniques** and **instruments** for research

Complementary techniques



Several research fields

Pharmaceutical
Medical and
Biotech

Environment

Automotive
and
Aerospace

Paint
and
Coatings

Metal/
Metallurgy

Optoelectronics

Energy

Chemical

Food

Cultural
Heritage

Textile

Open Access to multiple facilities: the CERIC way

- **Support** in proposals preparation
- **One entry point** to over 60 techniques
- Possibility to ask for **several instruments** in a single proposal
- **Mobility support** (2 users per measurement for each site)
- **Dissemination** of research results

ONE SINGLE OR
MULTI-TECHNIQUE
PROPOSAL

Two calls per year for
coordinated
access to all facilities

Two-step access
procedure

One review panel

ONE REPORT

But...



CLOSE THE GAP

(Theoretical) solution



(Practical) solution 1



Elettra Sincrotrone Trieste



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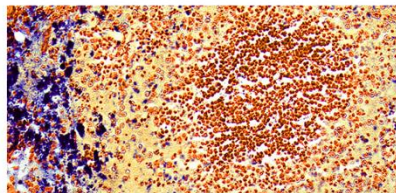
Press Release CERIC-ERIC: Improved nanoparticles towards more effective drug formulation, delivery and cancer treatment

[News Archive](#)

Improved nanoparticles towards more effective drug formulation, delivery and cancer treatment

A recent study conducted in the frame of the [Nano-analytics for Pharmaceuticals](#) project led by *Aden Hodzic* (CERIC-ERIC) and in cooperation with UCL scientist Maximilian Besenhard, Kim Than, and Asterios Gavriilidis, shed light on new methods for the synthesis of iron oxide nanoparticles. Findings will help improve future drug formulation and delivery for more effective cancer diagnosis and treatment.

Magnetic iron oxide nanoparticles (IONPs) have emerged as one of the primary nanomaterials in biomedicine, thanks to their low toxicity and biodegradability. Their morphological features allow their use in drug delivery systems for tumour cells imaging or burning, as well as for delivery of therapeutic agents. For example, they can be used as contrasting agents for magnetic resonance imaging (MRI), which is widely deployed in clinical oncology diagnostics.



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Connect with PF Communication Offices

(Practical) solution 2

News

PRESS RELEASE: Fighting cancer and genetic diseases with lipid nanoparticles

12.11.2024 | BIO-TECHNOLOGY, HEALTH

Researchers at Sapienza University's NanoDelivery Lab, supported by the European research infrastructure consortium CERIC-ERIC, have developed a technology to transport large DNA molecules, paving the way for new targeted gene therapies. The results of the study have been published in Nature Communications.

Connect with affiliation Institute(s) Communication Offices

(Practical) solution 3



“Who you gonna call?”

CERIC

Connect directly with (frequent) users

(Practical) solution 4

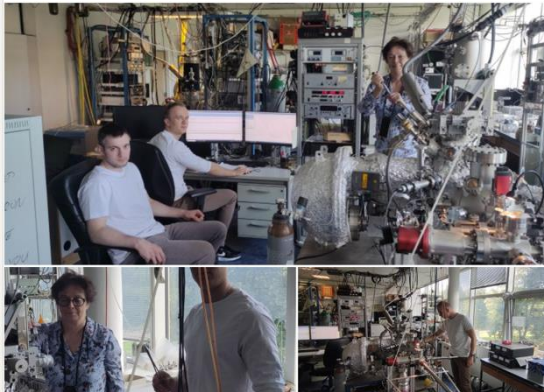
CERIC
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1,746 follower
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Meet CERIC users

Jakub Lach and **Michał Gogacz** (AGH University of Krakow) recently conducted some experiments at the XPS beamline at **Charles University** to elucidate the reversible in situ exsolution of metallic nanocatalysts on the surface of new electrode materials for symmetrical Solid Oxide Cells (SOCs).

SOCs are promising candidates for **#greenenergy** generation and can function in a **#fuelcell** or electrolysis mode, depending on the demand, and they are particularly promising when combined with renewable energy sources due to their intermittent nature.

Mostra traduzione



trieste next | festival della ricerca scientifica



Lorenzo
D'Amico



Giulia
Saccomano



Marcello
Turconi

Se la fisica va
in corsia

Venerdì 27 settembre
ore 15-16.15

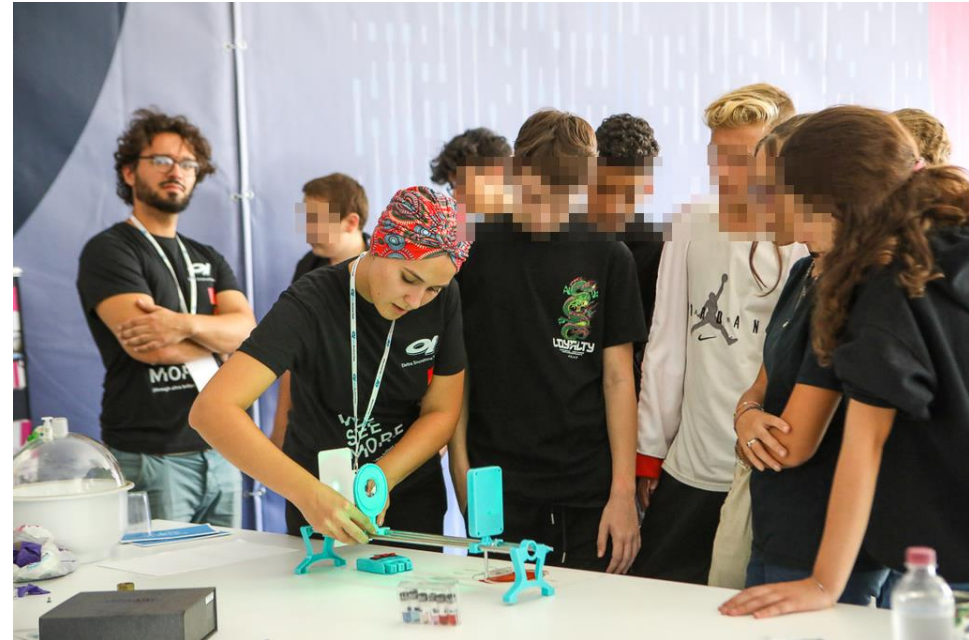
Area Talk 1
Trieste

www.triestenext.it



Not (only) news and press releases

(Practical) solution 4



Not (only) news and press releases

Thank you!

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