

UNAAT

Ultra-small Nanohybrides for Advanced Theranostics

Newsletter 3 – April 2023

Consortium



Lyon 1

Coordinator

Université Claude
Bernard Lyon 1
France



Science Park
Taras Shevchenko University of Kyiv

Corporation
Science Park
Taras
Shevchenko
University Of Kyiv
Ukraine



National Research Council of Italy

Consiglio
Nazionale Delle
Ricerche
Italy



Bioemission
Technology
Solutions IKE
Greece



Glincs
France

The project

Nanoscale materials have gained a place in the spotlight as enablers of combination diagnostic-therapeutic technologies due to their tiny penetrating sizes and their unique functional properties.

Nanohybrids that contain both organic and inorganic components, including metallic ones, offer tremendous opportunity for the functionalisation of biological or bioactive molecules.

The EU-funded UNAT project will explore the capabilities of metal-carbon nanohybrids for multimodal in vivo imaging and therapy of tumours via electromagnetic radiation.

The diagnosis and therapy of cancer will be evaluated through an ambitious campaign of preclinical in vitro and in vivo experiments.

Key figures

5 years (2021-2025)

5 partners

4 countries

832 k€

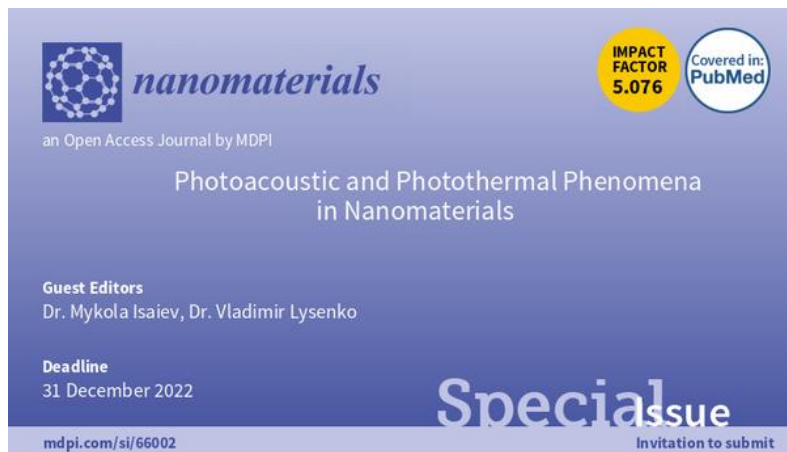
More information on www.unat-project.eu

Beneficiary Glincs joining the UNAT consortium

Glincs, a start-up based in Lyon, France and dealing with methods for the detection and quantification of many types of chemical additives, including the most commonly used chemical additives for oil & gas extraction, joined the UNAT project as from 2023. Glincs brings its expertise in physico-chemical characterization of the nanoscale hybrids containing lanthanoid ions which are in the research focus of the UNAT consortium.

More information on Glincs: <https://glincs.fr/>

V. Lysenko, UNAT Coordinator, is Guest Editor of a Special issue "Photoacoustic and Photothermal Phenomena" in Nanomaterials



A special issue of Nanomaterials (ISSN 2079-4991). This special issue belongs to the section "Nanophotonics Materials and Devices".

Guest Editors:

- Dr. Mykola Isaiev, Université de Lorraine, CNRS, LEMTA, Nancy F-54000, France
- Dr. Vladimir Lysenko, Light-Matter Institute, UMR CNRS 5306, Claude Bernard University of Lyon, Campus de la Doua, 2, rue Victor Grignard, Bat. Jules Raullin, 69622 Villeurbanne, France

[Link to special issue](#)

UNAT promoted in the European Research Executive Agency's Christmas article:



The European Research Executive Agency is bringing a selection of projects that are spreading what Christmas is all about: solidarity, sustainability, peace, and cheer.

Among them the UNAT project is highlighted:

[Link to the article](#)

Publication from CNR in Journal of Functional Biomaterials

Title: Fluorescent Carbon Dots from Food Industry By-Products for Cell Imaging

Authors: Federica Mancini, Arianna Menichetti, Lorenzo Degli Esposti, Monica Montesi, Silvia Panseri, Giada Bassi, Marco Montalti, Laura Lazzarini, Alessio Adamiano and Michele Iafisco

DOI: 10.3390/jfb14020090 - [Open access link on Zenodo](#)

Mutual publication from Science Park and UCBL

Title : Bio-distribution of Carbon Nanoparticles Studied by Photoacoustic Measurements. Nanoscale Res Lett 17, 127 (2022)

Authors : Kateryna Dubyk, Tatiana Borisova, Konstantin Paliienko, Natalia Krisanova, Mykola Isaiev, Sergei Alekseev, Valeriy Skryshevsky, Vladimir Lysenko & Alain Geloën

UNAT Implemented secondments

Research and Innovation Staff Exchange (RISE) projects fund short-term exchanges (“secondments”) for staff to develop careers combining scientific excellence with exposure to other countries and sectors. RISE enables more interaction between academia and non-academic organisations within Europe and worldwide.

The following secondments were implemented between April 2022 and April 2023:

DZIUBENKO Nataliia from SCIENCE PARK to UCBL - 01/04/2022 - 30/04/2022

KUZNIETSOVA Halyna from SCIENCE PARK to UCBL - 01/04/2022 - 30/04/2022

MILOVANOV Yurii from SCIENCE PARK to UCBL - 01/04/2022 - 30/04/2022

LYSENKO Tetiana from SCIENCE PARK to UCBL - 14/02/2022 - 29/05/2022

PALIIENKO Kostiantyn from SCIENCE PARK to UCBL - 07/02/2022 - 27/07/2022 and 01/10/2022 – 29/12/2022

LYTVYNENKO Sergii from SCIENCE PARK to UCBL - 01/04/2022 - 30/06/2022

HRABCHUK Halyna from SCIENCE PARK to UCBL - 28/06/2022 - 27/07/2022

SYNIUHINA Ahnesa from SCIENCE PARK to UCBL - 28/06/2022 - 27/07/2022

TOPCHYLO Anna from SCIENCE PARK to UCBL - 15/06/2022 - 14/07/2022

LYSENKO Tetiana from SCIENCE PARK to UCBL - 03/06/2022 - 27/07/2022 and 01/10/22 - 29/12/22

SKLIRIS Antonis from BIOEMTECH to CNR - 19/06/2022 - 05/08/2022

ADAMIANO Alessio from CNR to BIOEMTECH - 26/07/2022 - 26/08/2022

DEGLI ESPOSTI Lorenzo from CNR to BIOEMTECH - 09/08/2022 - 10/09/2022

PYLYPOVA Ohla from SCIENCE PARK to UCBL - 15/11/2022 - 14/12/2022

NICHIPORUK Tatiana from UCBL to BIOEMTECH - 01/04/2023 - 30/04/2023



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