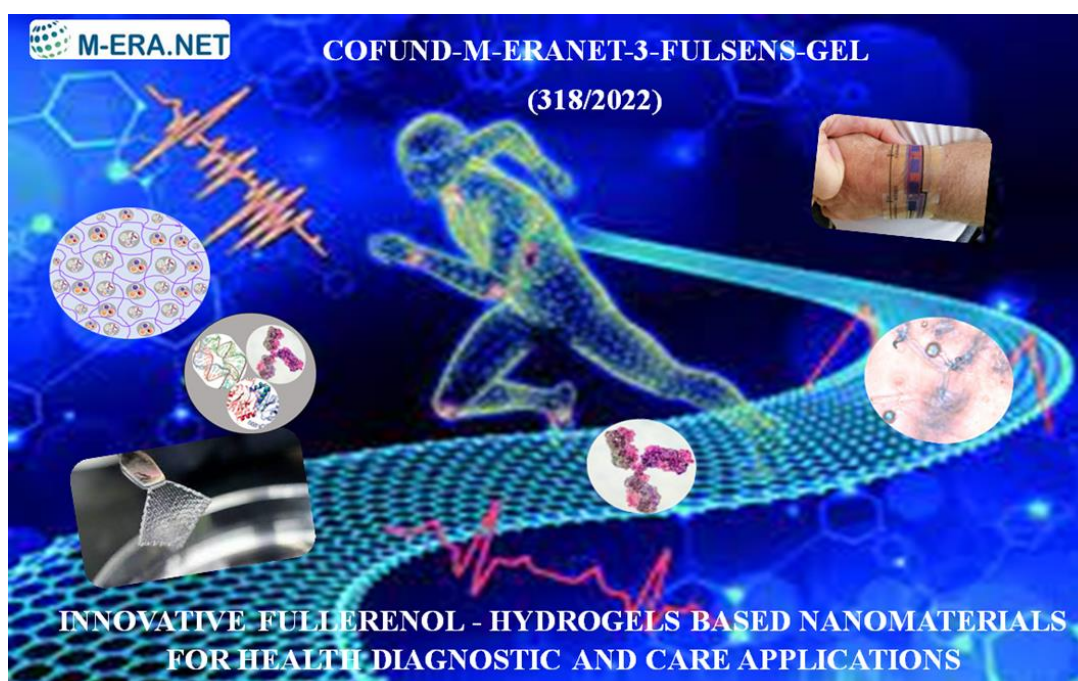


INNOVATIVE FULLERENOL - HYDROGELS BASED NANOMATERIALS FOR HEALTH DIAGNOSTIC AND CARE APPLICATIONS - FULSENS-GEL

COFUND-M-ERANET-3-FULSENS-GEL (318/2022)

<https://www.fulsens-gel.ro/>

<https://www.era-learn.eu/network-information/networks/m-era.net3/m-era-net-joint-call-2021/innovative-fullerenol-hydrogels-based-nanomaterials-for-health-diagnostic-and-care-applications>



Main Objective

The main objective of the project consists in the development of an innovative nanomaterial, based on combination of the elastic, flexible and resistant hydrogels with functional nanomaterials based on fullerenols (FL), thus resulting a new 3D conductive hydrogel with tunable network structures, active surface and improved electrochemical, mechanical and optical properties for sensing applications. By entrapment of biomolecules in such conductive hydrogels can be achieved unique features and diverse functionalities for various promising fields of applications: wearable, flexible and point-of-care sensors for clinical diagnostic, food quality control, environmental monitoring, flexible energy storage device, human-machine interfaces and intelligent sensors, based on self-healing and self-adhesive nanomaterial.

General Data

National authority: Executive Unit for Financing Higher Education, Research, Development and Innovation

Implementation period: 28/06/2022-31/12/2024

Budget: 1.237.000 lei / 250.000 Euro

Project Director: dr. chim. Ana-Maria Gurban

Partners



International Consortium Coordinator (PI)

National Institute for Research & Development in chemistry and Petrochemistry – ICECHIM, Bucharest, Romania

Project director: dr. chim. Ana-Maria Gurban



Partner 2:

Necmettin Erbakan University, Konya, Turkey

Project responsible: Prof. Saniye Söylemez



Partner 3:

Metrohm Dropsens, S.L., Asturias, Spain

Project responsible: dr. Pablo Fanjul Bolado



Partner 4:

ChimGrup SRL, Bihor, Romania

Project responsible: Mihai Mitrea