



Planul Național
de Redresare și Reziliență

Project announcement

„NRRP: Funding for a modern and reformed Romania!“

As the project beneficiary, the “**Petru Poni**” Institute of Macromolecular Chemistry (ICMPP) in Iași implemented the project “**Multifunctional hybrid 3D architectures based on hollow GaN nano-micro-tetrapods for advanced applications at Petru Poni Institute of Macromolecular Chemistry (MultiPodGaN)**”, under contract no. 760285/27.03.2024, CF 161/31.07.2023. The project was funded through Romania’s National Recovery and Resilience Plan (NRRP), Component C9 – Support for the private sector, research, development, and innovation, under Investment I8 – Development of a program to attract highly specialised human resources from abroad in research, development and innovation activities. Financing was provided by the European Union through the NextGenerationEU initiative.

The **MultiPodGaN** project focused on the development of multifunctional three-dimensional (3D) gallium nitride (GaN) nano- and micro-architectures, including aero-GaN hollow tetrapods and their hybrid assemblies, for applications in bio-microfluidics and sensing technologies. Under the coordination of Acad. Ion Tiginyanu, a new research area was developed within the Center of Advanced Research in Bionanoconjugates and Biopolymers (IntelCentru), an ICMPP department, dedicated to hybrid GaN-based systems combining polymers, biomacromolecules, and nanomaterials for advanced sensing and biotechnological applications. This was achieved through the synergy of the interdisciplinary and complementary expertise of the project director and the IntelCentru team. The implementation of the project’s activities resulted in the full achievement of all indicators and objectives.

MultiPodGaN pursued several **key goals**:

- **Building strong RDI capabilities** by establishing a competitive research group under the coordination of a distinguished international expert.
- **Training a new generation of researchers** through interdisciplinary collaboration.
- **Boosting international visibility** via high-impact publications and participation in EU-funded research.

The **project implementation period** was 27 months (**27.03.2024-30.06.2026**).

The **total eligible value** of the funding contract, **provided through the NRRP**, was

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5.600.000,00 RON (excluding VAT), with an additional VAT amount of **438.957,76 RON**.

Upon project completion in June 2026, all performance indicators were achieved or exceeded. In terms of scientific output, 7 articles were published in Q1-ranked journals, and the project was represented at 20 scientific events. Regarding intellectual property and competitive funding, one patent application was filed, two Horizon Europe project proposals reached the funding threshold, and one national RDI proposal was submitted. Public communication activities resulted in three press releases. Human resources development objectives were fully achieved, with 2 FTE positions for postdoctoral researchers and 2 FTE positions for doctoral students ensured, and all researchers trained under high-level international supervision.

As an impact indicator, ICMPP adhered to the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (EURAXESS: https://euraxess.ec.europa.eu/jobs/charter/declaration-endorsement#show_Romania).

ICMPP was awarded the “HR Excellence in Research” distinction confirming its institutional commitment to high standards in human resources management in research. (<https://euraxess.ec.europa.eu/hrexcellenceaward/awarded>).

The MultiPodGaN project website (<https://icmpp.ro/multipodgan>) and Facebook page (<https://www.facebook.com/profile.php?id=61562273277357>) were created and continuously updated throughout the project implementation period.

By harmonising infrastructure and leveraging collaborative expertise, more medium and long-term results will be obtained after project implementation.

Contact

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„The content of this material does not necessarily represent the official position of the European Union or the Romanian Government“.

„NRRP. Funded by the European Union – NextGenerationEU“

Website - <https://mfe.gov.ro/pnrr/>

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