

PRESS RELEASE

2D-BioPAD and MUNASET at Graphene Week 2025: Showcasing Graphene-Based Biomedical Innovation

Vicenza, Italy – September 26, 2025

For the second year in a row, [2D-BioPAD](#) and [MUNASET](#) took part in [Graphene Week 2025](#), Europe's main event on graphene and 2D materials, held from 22–26 September in Vicenza, Italy. The event brought together scientists, innovators, and industry leaders to share ideas and explore how 2D materials can shape the future.

Throughout the week, partners from both projects were highly engaged. The teams set up stands and presented to the Graphene Flagship's annual meeting to share the project's goals and progress, joined open and innovation forums and organised a workshop to connect with other experts.

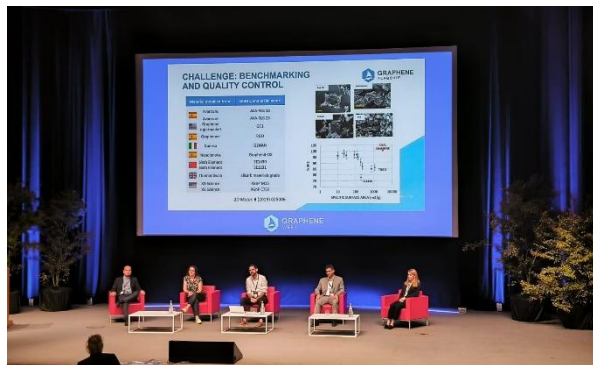


Figure 1. Open Forum

Continuing last year's teamwork, 2D-BioPAD and MUNASET co-organised a joint workshop in the BioMed & Health session. Marianna Rosetti ([ICN2](#)) and Alexey Tarasov ([University of Applied Sciences Kaiserslautern](#)), moderated the workshop, which also included highlights from the two projects, including a presentation from Ronaldo Challhua (ICN2), who showcased the latest progress on graphene-based electrochemical biosensors for Alzheimer's Disease (AD) diagnostics.



Figure 2. 2D-BioPAD & MUNASET Joint Workshop

2D-BioPAD was also part of the Innovation Forum: From Fundamental Research to Innovative Applications (Part II). There, Vincent Bouchiat ([Grapheal](#)) joined global experts to share compelling success stories that demonstrate how cutting-edge research can be transformed into real-world technologies and commercial products. The session showed how 2D materials are opening new paths in medicine, electronics, and other fields through teamwork and technology sharing.

A key highlight of the week was 2D-BioPAD's first GFET-based biosensor prototype, that can quickly check multiple AD biomarkers in blood at once. The sensor converts biomarkers' concentration into digital data and sends them directly to a smartphone.

While 2D materials hold enormous promise for biomedical applications, particularly in sensing technologies, much work still lies ahead. Collaboration and healthy competition will be key to accelerating industrial adoption and turning laboratory achievements into impactful healthcare solutions. 2D-BioPAD and MUNASET continue working towards their goal of harnessing graphene/2D-material biosensors to enable better, faster point-of-care health diagnostic tools.

As we say: **"...together we can do so much more!"**