

Facts about graphene in vaccines and other medicinal products

#1 No graphene type or graphene-based material (*e.g. pristine* graphene, graphene oxide, reduced graphene oxide or any other type of modified or non-modified graphene-based material) is included in the [ingredient lists](#) of any of the COVID-19 vaccines authorised for clinical use in Europe. Find all of the ingredient lists for all of the COVID-19 vaccines [here](#).

#2 All ingredients of medicinal product formulations (even of minute concentrations) must be publicly available and clearly stated on the product data sheet of any

#3 The regulatory approval for the authorisation of medicinal products (such as vaccines) for human use in Europe is governed and carried out by the European Medicines Agency (EMA) and the equivalent national medicinal product authorisation agencies. Every European country has a national agency that is also responsible for post-authorisation and inspection of the marketed batches of medicinal products.

#4 The EMA and the equivalent national agencies conduct periodic evaluations of the manufacturing processes involved in producing the vaccines. Finding undeclared or undisclosed ingredient(s) wouldn't be easy and would constitute violation of the strict legal obligations that the manufacturers and marketers operate under.

#5 Various promising medical applications are being developed using different graphene types and graphene-based products. However, to our knowledge, no authorisation or approval of any such type for human use has yet been granted by the EMA or any of the equivalent European national agencies.

#6 There have been multiple fact-checker service providers and reputable media outlets that have performed their independent research to repeatedly confirm Fact #1 above. Find some of these at the end of this article.

#7 The Graphene Flagship project is a scientific research consortium funded by the European Commission with the mission for the safe, ethical and societally acceptable, appropriate and beneficial development and application of graphene types and graphene-based materials and technologies.



References

REUTERS – August 2021

<https://www.reuters.com/article/factcheck-graphene-lipidvaccines-idUSL1N2PI2XH>

Also contains named statements from two of the approved COVID vaccines that contain lipid nanoparticles.

CNN – November 2021

<https://edition.cnn.com/2021/11/14/politics/covid-vaccine-misinformation-fact-check/index.html>

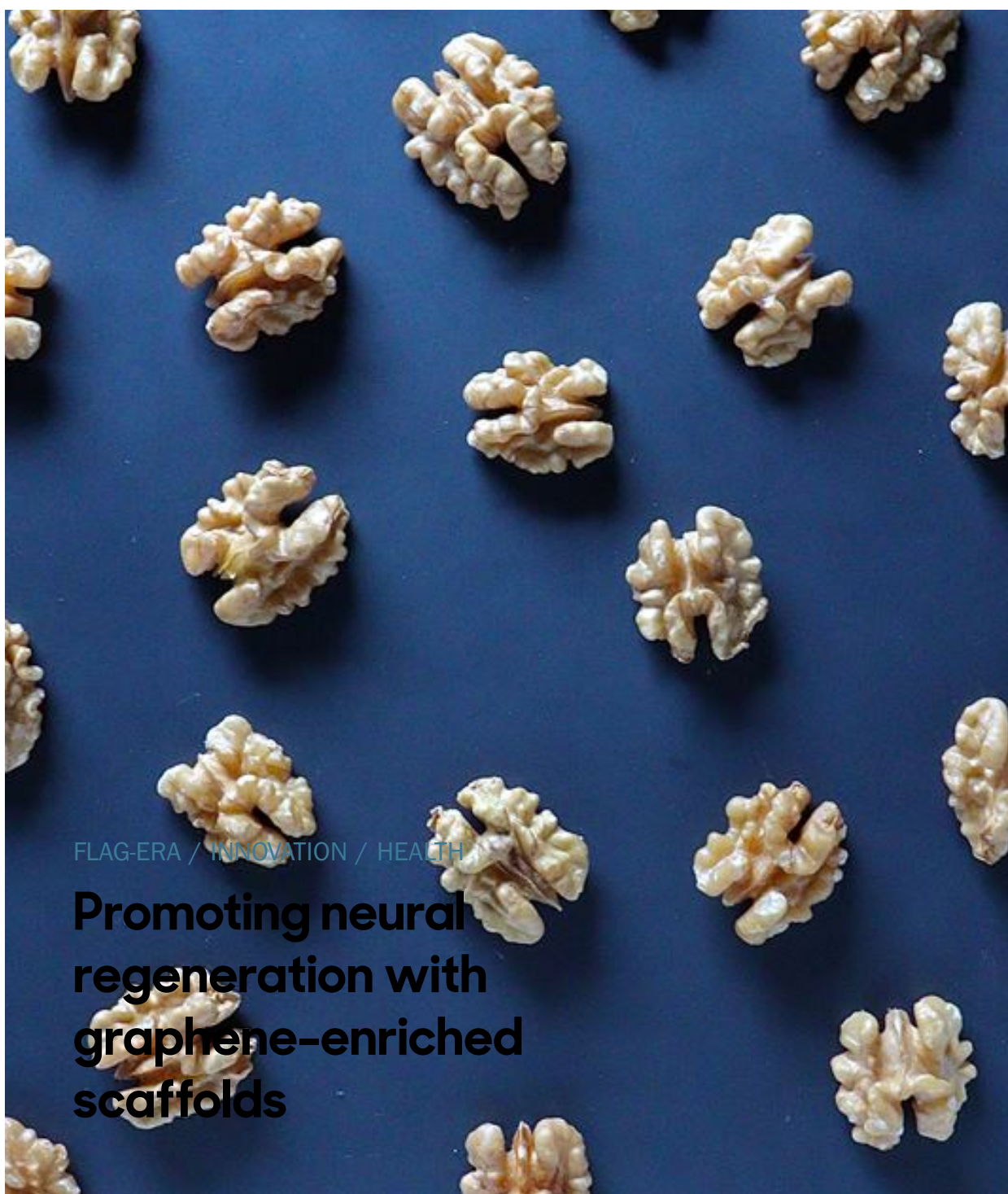
European Medicines Agency (EMA) portal on authorised COVID Vaccines

<https://www.ema.europa.eu/en/human-regulatory/overview/public-health-threats/coronavirus-disease-covid-19/treatments-vaccines/vaccines-covid-19/covid-19-vaccines-authorised#authorised-covid-19-vaccines-section>

All product ingredients and specifications are listed here.

Latest news







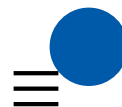
DIVERSITY / HEALTH / BIOMEDICAL

Spotlight: Graphene applications in drug delivery

Graphene Flagship researchers Valentina Castagnola and Clarissa Braccia, based at Graphene Flagship partner IIT, in Italy, share their latest experiences and discoveries in the field of graphene and related materials.

By Graphene Flagship / 10 February 2022






epilepsy detection

Graphene Flagship researchers have developed a flexible neural probe made of graphene-based field-effect transistors. This device records the full spectrum of brain signals, including infraslow signals, demonstrating the ability of graphene-enabled devices to detect some signs of epilepsy with high fidelity.

By Graphene Flagship / 03 February 2022

 [Show all news](#)

Shortcuts





About

The Graphene Flagship is part of the European Union's biggest scientific research initiative. With a budget of €1 billion, the project represents a new form of joint, coordinated research initiative on an unprecedented scale.

Sign in



request intranet access



Contact

General Queries

info@graphene-flagship.eu

Administration

admin@graphene-flagship.eu

Events

event@graphene-flagship.eu

Innovation/Business Development

innovation@graphene-flagship.eu

Media Inquiries

press@graphene-flagship.eu

