

News on biobased resource recovery

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Dear circular economy enthusiast,

Here we are at the last newsletter of the year!

While 2021 comes to an end, we are already looking forward to the next challenges and objectives to achieve!

Over the last year our community has rapidly grown and we are very happy to see your commitment in supporting the transition towards a circular economy. Many expectations were fulfilled but new initiatives are on track, waiting just for you!

The Biorefine Cluster is relaunching the Nutrient Recycling Community to boost the interaction between the BCE members and favor the knowledge exchange on topics related to nutrient recycling. More than this, the European Sustainable Nutrient Initiative (ESNI) will be back in March 2022 to offer you an high-level discussion on the benefits of nutrient recycling in boosting agriculture, novel food production and sustainable development.

In this issue we will turn our spotlight on the Fertimanure project, which intends to develop, test and estimate advanced nutrient management strategies to produce competitive fertilisers that contribute to good yield. You will learn more on the project's key outputs and strategies to produce bio-based fertilisers directly on-farm from animal manure. Check below

to discover more on the project!

Along with that, you will read breaking news on projects from our community and you will be updated on their latest initiatives, progress and results.

And lastly do not forget to take a peek at publications and events we chose for you!

We wish you a pleasant reading and nice holidays!

The BCE Team

Our latest updates will be waiting for you at @Bioref_Cluster and www.biorefine.eu. See you there!

You wish to share any news with us? Get in touch! info@biorefine.eu

Biorefine

The BCE relaunches the Nutrient Recycling Community



The BCE joined its forces with the FERTIMANURE project to relaunch the Nutrient Recycling Community and boost its activities and interaction between the BCE members. The group will foster collaboration with relevant initiatives and projects on nutrient recycling in Europe and serve as a platform to exchange knowledge and good practices.

Do you want to know more? Contact Margherita Genua (margherita.genua@ugent.be) or Ana Robles Aguilar (ana.roblesaguilar@ugent.be) for further information!

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The European Sustainable Nutrient Initiative (ESNI) will be back soon!



The European Sustainable Nutrient Initiative (ESNI) will be back on Tuesday 29 March 2022 in Brussels. After a second edition which took place exclusively online, ESNI returns as a physical event to provide a platform for fruitful discussion and exchange of knowledge on nutrient recycling and reuse.

Policy-makers, researchers, industry representatives and many other stakeholders will discuss how to raise awareness on the benefits of nutrient recycling and reuse (NRR). Parallel sessions will be dedicated to policy measures, innovative solutions and technological developments on nutrient recycling.

Read more [here](#)

Biorefine

Call for abstracts!



From 1st to 2nd June 2022, the Biorefine Cluster will organise the first edition of the 'Biorefine in EU Conference' that will take place in Ghent. The event aims to highlight and discuss the current research innovations within the topics addressed by the Cluster, their further developments and the concrete solutions to make the transition to circular economy work in practice. Registrations to attend the conference will open in January, but participants are invited to submit already their abstracts and poster presentations.

Read more [here](#)

Project's corner

Fertimanure



The EU-funded FERTIMANURE project intends to develop, test and estimate advanced nutrient management strategies to produce competitive fertilisers that contribute to good yield. Their goal is to recycle valuable nutrients from livestock manure and produce bio-based fertilisers. FERTIMANURE will be deployed in five of the EU's biggest livestock production countries, namely Belgium, France, Germany, the Netherlands and Spain.

Read more [here](#)

One of the key outputs of the FERTIMANURE project are the 5 on-farm pilots that will treat and valorise livestock waste to selectively recover nutrients and obtain bio-based fertilisers. The FERTIMANURE on-farm pilots are producing a total of 19 different bio-based fertilisers including mineral fertilisers, such as ammonium sulphate, phosphoric acid, liquid K-fertiliser, organic amendments and also biostimulants. These bio-based fertiliser products will be tested and evaluated to know their agronomic performance and will also be further used to produce high-added value tailor-made fertilisers.

Read more [here](#)





One of the nutrient management strategies of the FERTIMANURE project is to produce Tailor-Made Fertilisers directly on-farm from animal manure.

The greater challenge addressed by this task is to transform low-value pig slurry into a fertiliser which has a wider potential application and thereby greater value. To reach this objective, the pig slurry composition is adapted by incorporating different additives to make it suitable and profitable for application on croplands, where its potential use is limited due to its lower fertiliser value.

Read more [here](#)

Since October 2021, the FERTIMANURE project has been organizing brainstorm sessions involving different stakeholders (research institutions, agricultural producers, fertilizer industries, policy makers, etc.). The aim of these sessions was to help us going a step forward in catalyzing the list of barriers and opportunities currently present in the market.



Read more [here](#)



If you want to know what FERTIMANURE is about, take a look at the FERTIMANURE explaining video! This informative video is available in English, but it has also been subtitled with all the consortium languages (Spanish, Catalan, French, German, Dutch, Italian and Croatian) to better reach local stakeholders!

Food for thoughts

ScienceDirect - [Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock](#)

ScienceDirect - [Selection and application of agri-environmental indicators to assess potential technologies for nutrient recovery in agriculture](#) (Nutri2cycle project)

ScienceDirect - [Harnessing biofertilizer from human urine via chemogenic and biogenic routes: Synthesis, characterization and agronomic application](#)

Project news

The Flemish Algae month



We would like to proclaim February as the Flemish algae month. On three consecutive Thursdays, three events will take place focusing on different aspects of microalgal technology. On February 3rd the focus will be on the use of agricultural and food side streams for the cultivation of microalgae (UGent-Innolab), while on February 10th the focus will be on the development and upscaling of a circular economy based on microalgae (Radius, Thomas More campus Geel). Finally, on February 17th the use of (micro)algae in the food industry will be discussed (ILVO-Flanders Food).

Interested? Discover more on the events [here](#)

Project news

AgriWasteValue at the Lipids and Cosmetics Congress



The Interreg AgriWasteValue project will be featured in a round table discussion at the 3rd edition of the Lipids & Cosmetics congress, which will be held from 26 to 27 January 2022 in Bordeaux and in digital. Discover the latest results of the project and take part in the discussion on 'Structuring a European production chain of antioxidants from agroforestry co-products: a solution for the protection of bio-based lipids for a 100% natural cosmetic product'.

Read more [here](#)

Project news

Alg-AD webinar: Microalgae grown on digestate as a fish feed



On Tuesday 16th November, the ALG-AD consortium organised the sixth event of the webinar cycle during which they exchange and share news about the ALG-AD project. The webinar was focused on the 'Microalgae grown on digestate as a fish feed', where the project presented and discussed the results of the Capitalisation activities.

You can re-watch the webinar [here](#)

Project news

Lex4Bio released its third newsletter!



LEX4BIO has now reached its mid-point after receiving a one year extension, due to the delays caused by COVID-19. All work packages are currently actively engaged on research activities and interesting results have started to accumulate on the properties of bio-based fertilisers, including their agronomic efficiency, potential hazardous substances, and nutrient losses, either through volatilisation or leaching.

Read the newsletter [here](#)

Project news

GlasPort Bio was awarded the Low Carbon Prize



GlasPort Bio was awarded the inaugural InterTradeIreland Seedcorn Sustainability/Low Carbon award. The prize recognises start-ups innovating within the low carbon and green sector. GlasPort Bio develops technology focused on reducing greenhouse gas emissions from agriculture. The company is creating solutions that allow farmers to produce food in a more productive, profitable and sustainable way.

Read more [here](#)

Project news

The Run4Life project final events



At the end of November, after 4.5 well-spent years, the Run4Life project came to an end. The 15 partners of the consortium led by project coordinator Aqualia, have been working on the recovery of fertiliser products from source-separated wastewater systems. The final days of the project were all about celebrating successes and sharing the lessons learned with others.

Read more [here](#)

Get engaged..

[UGent - Postdoctoral researcher on Bioresource recovery and Community coordinator of an international network on Biobased resources](#)



Grassification project - MOOC 'From Grass to Product' 5. Microalgae production from grass juice'

Upcoming events

Save the date!



EUBCE 2022

9-12 May 2022, Marseille & Online, France

EUBCE is the largest biomass conference and exhibition in the world.

Each year, EUBCE brings together the greatest minds and latest advancements in biomass, with the aim of accelerating research and market uptake across the globe. During the conference, over 2,000 experts from both academia and industry share and discuss groundbreaking ideas, technologies, applications, and solutions for the sourcing, production, and utility of biomass.

[Continue reading](#)



RAMIRAN 2020

19-21 September 2022, Cambridge,
United Kingdom

RAMIRAN "Recycling of Agricultural, Municipal and Industrial Residues in Agriculture Network" is a research and expertise network set up over 25 years ago to improve nutrient utilisation and minimise the environmental impact from livestock manure and other organic material use in agricultural systems.

[Continue reading](#)

The Biorefine Cluster is supported by the European Biogas Association (EBA), a no-profit organisation which advocates for recognition of biomethane and other renewable gases as sustainable, on demand and flexible energy sources that provide multiple knock on socio-economic and environmental benefits. Learn more [here](#)



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