

## ***European project BIONtop obtains promising results in development of new recyclable and compostable packaging***

*In its first year, the European project BIONtop has achieved good results in its experimental work on copolymers and compounds with customized biodegradability and multifunctional coating solutions with customized properties.*

*The new materials will make it possible to produce new recyclable, compostable and reusable packaging.*

**Valencia (24 July 2020).** AIMPLAS, the Plastics Technology Centre, is leading the BIONtop project, whose objective is to develop new, competitive, low-cost, recyclable packaging solutions designed to be mechanically recycled, compostable either industrially or at home, or suitable for anaerobic digestion.

In the first year of the project's four-year development period, the project partners started experimental work on copolymers and compounds with customized biodegradability and multifunctional coating solutions with customized properties. Although these tasks are currently ongoing, the first trials have shown promising results.

Another task performed in this first year was defining the specifications for PLA-based products with customized end of life and properties. Two technical deliverables and one scientific paper have been published with these initial project results. The first deliverable is an extensive review of the state of the art, including scientific papers, patents and commercial information on biodegradable household packaging and textiles. The information in this deliverable was consulted to write the paper *Bio-Based Packaging: Materials, Modifications, Industrial Applications and Sustainability*, published in the international scientific journal *Polymers* (ISSN 2073-4360). The second deliverable consists of a compilation of information on commercial biopolymers, additives and monomers, including suppliers and prices, in order to select the source materials to be used to start working with the laboratory scale-up formulation in upcoming project activities. All three documents are accessible through the project website ([www.biontop.eu](http://www.biontop.eu)). The paper is also available on the journal website (<https://www.mdpi.com/2073-4360/12/7/1558>).

## Consortium and funding



The project has been funded through the “Bio-Based Industries Joint Undertaking” within the EU Research and Innovation programme Horizon 2020 under grant agreement 837761, in which 20 partners and AIMPLAS are taking part:

BIO-MI DRUSTVO S OGRANICENOM ODGOVORNOSCU ZA PROIZVODNJU, ISTRAZIVANJE I RAZVOJ, CENTRE SCIENTIFIQUE & TECHNIQUE DE L'INDUSTRIE TEXTILE BELGE ASBL, CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI, CRISTOBAL MESEGUER SA, EMSUR MACDONELL SA, ENCO SRL, EUROPEAN BIOPLASTICS EV, FACHHOCHSCHULE ALBSTADT-SIGMARINGEN, IRIS TECHNOLOGY SOLUTIONS SL, LABORATORI ARCHA SRL, MOVIMENTO CONSUMATORI, ORGANIC WASTE SYSTEMS NV, PLANET BIOPLASTICS SRL, QUESERIAS ENTREPINARES SA, ROMEI SRL, SILON SRO, SIOEN INDUSTRIES NV, TOTAL CORBION PLA BV, UBESOL SL, WEAREBIO OU.

## About AIMPLAS

At AIMPLAS, we help companies integrate circular economy criteria into their business models and turn the legislative changes that affect them into opportunities to improve efficiency and profitability and reduce environmental impact. AIMPLAS also does research in areas such as recycling, biodegradable materials and products, and the use of biomass and CO<sub>2</sub> with the aim of developing innovative solutions that help solve current environmental challenges.

You are welcome to link to our site  
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