High performance functional bio-based polymers for skin-contact products in biomedical, cosmetic and sanitary industry

Fact Sheet

Project information

POLYBIOSKIN

Grant agreement ID: 745839
Status
Ongoing project

Funded under:
H2020-EU.3.2.6.
Overall budget:
€ 4 058 359,38

EU contribution
€ 3 438 047,50

Coordinated by:
IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA
Spain

Start date
1 June 2017
End date
31 May 2020

Objective

Personal care, Cosmetic and biomedical industries deal with high-value and/or large volume consumption of polymer-based products which are often derived from fossil sources. Although a number of alternative bio-based polymers is the subject of recent research, more effort is still needed to increase their specific functionalities and performances in order to proceed with their true translation into market. PolyBioSkin aims at developing skin-contact biopolymer-based product parts with increased performance and functionality, such as parts of diapers, cosmetic pads and wound dressings. Indeed, PolyBioSkin will focus on two main classes of bio-based polymers relevant for next generation bio-based industry: biopolymesters (polylactic acid and polyhydroxyalkanoates) because fully renewable, biocompatible and biodegradable and available at an industrial scale, and natural polysaccharides (cellulose/starch and chitin/chitosan), derived from biomass and food waste, for their peculiar properties, such as absorbency and anti-infectivity. Films and textiles will be produced starting from these polymers and their combinations to prove that key products and/or product parts in sanitary, cosmetic and biomedical industry can be effectively translated from a fossil-derived to bio-based polymer production. PolyBioSkin will provide to skin-contact products a much more environmentally friendly end of life than the current accumulation in landfills or incineration, thanks to their biodegradability allowing the organic recycling.
**Field of Science**

polylactic acid

**Programme(s)**

H2020-EU.3.2.6. - Bio-based Industries Joint Technology Initiative (BBI-JTI)

**Topic(s)**

BBI-2016-R07 - Biopolymers with advanced functionalities for high performance applications

**Call for proposal**

H2020-BBI-JTI-2016

**See other projects for this call**

**Funding Scheme**

BBI-RIA - Bio-based Industries Research and Innovation action

**Coordinator**

IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA

Address  
Calle Velazquez, No 94  
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Spain

Activity type  
Private for-profit entities (excluding Higher or Secondary Education Establishments)

EU Contribution  
€ 478 903,78

**Participants** (12)

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Activity type  
Research Organisations

EU Contribution  
€ 602 652
THE UNIVERSITY OF WESTMINSTER LBG

United Kingdom

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Activity type
Higher or Secondary Education Establishments

EU Contribution
€ 299 592

Website
Contact the organisation

ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS

France

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Activity type
Research Organisations

EU Contribution
€ 358 336,88

Website
Contact the organisation

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EU Contribution
€ 202 320

Website
Contact the organisation

UNIVERSITEIT GENT

Belgium

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9000 Gent

Activity type
Higher or Secondary Education Establishments

EU Contribution
€ 254 556

Website
Contact the organisation
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<td>Germany</td>
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<td>€ 63 911,97</td>
<td>Felso-Tisza Part 31 34 G ix Em 24 6723 Szeged</td>
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