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
Closed project
Start date 1 June 2017
End date 31 July 2020
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

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.

Programme(s)

Topic(s)

Call for proposal

H2020-BBI-JTI-2016

Funding Scheme

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

Coordinator

IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA

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Participants (13)

CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI

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Address
Via Giusti 9
50121 Firenze

Activity type
Research Organisations

Website
Contact the organisation

THE UNIVERSITY OF WESTMINSTER LBG

United Kingdom
EU contribution
€ 191 014,36

Regent Street 309
W1B 2UW London

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

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

France
EU contribution
€ 358 336,88

Address
Boulevard Saint Michel 60
75272 Paris

Activity type
Research Organisations

Website
Contact the organisation

TEHNOLOSKI FAKULTET NOVI SAD

Serbia
EU contribution
€ 202 320

Address
Bulevar Cara Lazara 1
21000 Novi Sad

Activity type
Higher or Secondary Education Establishments

Contact the organisation

UNIVERSITEIT GENT

Belgium
EU contribution
€ 254 556

Address
Sint Pietersnieuwstraat 25

Activity type
Higher or Secondary
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**THE UNIVERSITY OF SHEFFIELD**
THE UNIVERSITY OF SHEFFIELD

United Kingdom

EU contribution

€ 108 573,50

Address

Firth Court Western Bank
S10 2TN Sheffield

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

Last update: 25 May 2020
Record number: 210301

Permalink: https://cordis.europa.eu/project/id/745839/

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