Objective

The HUGS concept (HUmins as Green and Sustainable precursors of eco-friendly materials and biofuels) discloses an integrated multidisciplinary EID proposal with involvement of high-tech SME’s two research centers and 3 world class universities in the area of biorefinery. All partners have been chosen by their complementary expertise and their extensive experience in supervising PhD programs and coordinating international scientific projects. The proposed methodology and approach focuses on side-stream valorization of FDCA/PEF polyester production process developed by Avantium. HUGS aims to provide breakthrough knowledge combined with an excelling training program on humin by-products by implementing work packages which will respectively focus on side streams to building blocks; building blocks to composites; safety and toxicity aspects; training and dissemination activities and management, communication and public engagement. 5 PhD are envisaged to be recruited to reach these ambitious goals with regards to multidisciplinary training and beyond state-of-the-art research. Each PhD will be seconded at the company as well as between the collaborating universities aiming to develop a number of essential leadership, entrepreneurial, communication and scientific skills in program fellows. All partners will organize week-long dedicated training courses in their field of expertise (homo- & heterogeneous catalysis, physico-chemical polymer analyses, toxicity and safety, IPR, techno-economic evaluation) over the total duration of the project. The proposed research is novel and highly original which will justify scientific publications in top-ranked journals together with a unique training program. PEF is
unique in being the first technical superior and 100% biobased plastic to come to the market. The HUGS project as being closely linked to PEF commercialization which it will guarantee maximal exploitation of the results, communication and public engagement.

**Field of Science**

/engineering and technology/environmental engineering/energy and fuels/biofuels

/engineering and technology/materials engineering/composites

/social sciences/economics and business/business and management/commerce

**Programme(s)**

H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

**Topic(s)**

MSCA-ITN-2015-EID - Marie Skłodowska-Curie Innovative Training Networks (ITN-EID)

**Call for proposal**

H2020-MSCA-ITN-2015

See other projects for this call

**Funding Scheme**

MSCA-ITN-EID - European Industrial Doctorates

**Coordinator**

AVANTIUM CHEMICALS BV

Address

Zekeringstraat 29
1014 Bv Amsterdam

Netherlands

Activity type

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

EU Contribution

€ 383 061,42

Website

Contact the organisation

**Participants** (4)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
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</thead>
<tbody>
<tr>
<td>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS</td>
<td>France</td>
<td>€ 262 875,60</td>
<td>Rue Michel Ange 3, 75794 Paris</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>UNIVERSIDAD DE CORDOBA</td>
<td>Spain</td>
<td>€ 247 872,96</td>
<td>Avenida De Medina Azahara 5, 14005 Cordoba</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS</td>
<td>France</td>
<td>€ 131 437,80</td>
<td>Parc Technologique Alata, 60550 Verneuil En Halatte</td>
<td>Research Organisations</td>
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<td>LEIBNIZ - INSTITUT FUR KATALYSE EV AN DER UNIVERSITAT ROSTOCK</td>
<td>Germany</td>
<td>€ 249 216,48</td>
<td>Albert-Einstein-Strasse 29a, 18059 Rostock</td>
<td>Research Organisations</td>
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</table>
IEA Bioenergy Task 42
Netherlands
Activity type
Other

UNIVERSITE DE TECHNOLOGIE DE COMPIEGNE
France
Address
Rue Du Docteur Schweitzer
Cs 60319 Centre Pierre Guillaumat
60203 Compiegne Cedex
Activity type
Higher or Secondary Education Establishments

Rovaltain Scientific Foundation
France
Activity type
Other

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Last update: 26 January 2017
Record number: 198284