



## D7.1 First technical workshop

<b>Project Acronym</b>	BioCatPolymers
<b>Project Title</b>	Sustainable and efficient bio-chemical catalytic cascade conversion of residual biomass to high quality biopolymers
<b>GA Number:</b>	760802
<b>Topic:</b>	BIOTEC-06-2017
<b>Call Identifier:</b>	H2020-NMBP-2016-2017
<b>Type of Action:</b>	IA (Innovation Action)
<b>Website</b>	<a href="http://www.biocatpolymers.eu">www.biocatpolymers.eu</a>
<b>Project Coordinator</b>	Dr Angelos Lappas
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<b>Deliverable No &amp; Title:</b>	<b>D7.1</b>	<b>First technical workshop</b>		
<b>Work Package</b>	7	Promotional activities and dissemination		
<b>Task No &amp; Title:</b>	7.1	Dissemination and communication activities		
<b>Lead Beneficiary:</b>	BPF			
<b>Date:</b>	<b>Contracted</b>	06/30/2019	<b>Actual</b>	06/30/2019
<b>Status:</b>	<b>In Progress</b>		<b>Completed</b>	X
<b>Dissemination level:</b>	Public			
<b>Authors:</b>	R. Verlinden (BPF), P. Flippo (BPF), A. Kalogianni (CERTH)			



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## 1 Introduction - Aim

This deliverable reports on the technical workshop entitled “*Efficient and sustainable production of high added value bio-chemicals via biotechnological and chemocatalytic routes*”, organized in the frame of BioCatPolymers by the partners BPF and CPERI, as part of Task 7.1 in WP7 Promotional Activities and Dissemination.

The one-day workshop aimed to bring together researchers from industry and academia, industrial players, local stakeholders and policy makers to discuss recent advances in the production of high added value bio-based platform chemicals. It featured talks by prominent researchers on a wide range of topics in biomass conversion processes for the production of high added value products.

## 2 Organizational Information of the Workshop

### 2.1 Date and location

The workshop was held at the premises of the Bioprocess Pilot Facility B.V. (BPF), situated at the Biotech Campus Delft, in Netherlands, on Wednesday 15th May 2019.

<b>Workshop title:</b>	“Efficient and sustainable production of high added value bio-chemicals via biotechnological and chemocatalytic routes”
<b>Date &amp; Place of Organization:</b>	15 May, 2019 - Biotech Campus Delft, Netherlands
<b>Organized by:</b>	Bio Process Facility (BPF) and Centre for Research & Development Hellas (CERTH)
<b>Language of the workshop:</b>	English

## 2.2 *Objectives and format*

The main objective of the workshop was to bridge the academic/research and industrial worlds under the particular perspective of biochemicals technologies. More specifically, the 1<sup>st</sup> BioCatPolymers workshop targeted to:

- provide a clear understanding of the BioCatPolymers technology
- facilitate identification of problems
- attract industrial partners
- broaden the potential audience
- improve interaction by receiving input from the participants and
- create awareness among local stakeholders.

The BioCatPolymers workshop consisted of seven (7) lectures from prominent scientists in academia and industry, among them representatives of sister H2020 projects. The interaction between the participants was facilitated via the networking opportunities, i.e. coffee/lunch breaks, tour session of the BPF facilities, and enabled fruitful discussions and possible synergies between the academic and industrial world.

## 2.3 Workshop program



### Workshop

**Efficient and sustainable production of high added value bio-chemicals via biotechnological and chemocatalytic routes**

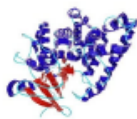
**Delft, The Netherlands**

**May 15, 2019**

**Venue: Biotech Campus Delft, Alexander Fleminglaan 1, 2613 AX Delft**

### AGENDA

09:45 – 10:00	<b>Registration</b>
	<b>Welcome – The H2020 BioCatPolymers project</b>
10:00 – 10:15	<i>Dr Angelos A. Lappas, Research Director, CPERI/CERTH (GR)</i> <i>BioCatPolymers Project Coordinator</i>
	<b>Industrial perspective on bio-based chemicals: Current status and future outlook</b>
10:15 – 11:00	<i>Dr Jakob Marbach, Covestro (DE)</i>
	<b>Advances in biomass pre-treatment for production of cellulosic sugars: The CelluApp process</b>
11:00 - 11:20	<i>Dr Tino Lassmann, SEKAB (SE)</i>
	<b>EU FALCON project: converting lignin to marine fuel, fuel additives and aromatic platform chemicals</b>
11:20 - 11:40	<i>Dr Tim Devlamynck, Bio Base Europe Pilot Plant (BE)</i>
	<b>A new bio-based building block for stable and sustainable supply of chemicals for elastomers, tackifiers and green solvent applications</b>
11:40 – 12:00	<i>Dr Deepak Dugar, Visolis (NL)</i>
12:00 – 13:00	<b>Light Lunch</b>
	<b>OLEFINE – Safe replacements for insecticides enabled by biotechnology</b>
13:00 – 13:20	<i>Prof. Markus Herrgard, Technical University of Denmark (DK)</i>
	<b>CARBAFIN - Route to an integrated biocatalytic glycosylation technology</b>
13:20 – 13:40	<i>Dr Barbara Petschacher, Institute of Biotechnology and Biochemical Engineering/ Graz University of Technology (AT)</i>
	<b>The scale-up route for fuels and chemicals from 2<sup>nd</sup> generation biomasses.</b>
13:40 – 14:00	<i>Dr Rob AJ Verlinden, BPF (NL)</i>
14:00 – 16:00	<i>Tour in BPF facilities</i>



## 2.4 Dissemination

The dissemination of the event was performed mostly via posts on the internet, via emails and informative printed material (brochures, posters). More specifically, the following dissemination channels were used:

- The announcement of the workshop was uploaded on the official BioCatPolymers webpage (<http://biocatpolymers.eu/news-events>) and also on the Bio Process Facility (BPF) webpage (<https://www.bpf.eu/news/news>), together with a registration form for on-line registration.
- The workshop was also posted on the European Commission website as an upcoming event and on CORDIS.
- Communication with sister H2020 projects and invitations to speakers.
- A list of more than 200 representatives of academic/research and business organizations was formed and invited via email to participate in the event.
- An informative brochure (Appendix A) about the venue of the event and the agenda of the workshop was generated and to the above mailing list and also distributed to other partners met in matchmaking events and other meetings.
- Dissemination of the 1<sup>st</sup> BioCatPolymers workshop was achieved also via the publicity of the event in the social media, via several posts.

## 3 Workshop Main Results

Overall, the workshop on *“Efficient and sustainable production of high added value bio-chemicals via biotechnological and chemocatalytic routes”* can be considered very successful in terms of organization, execution and attendance.

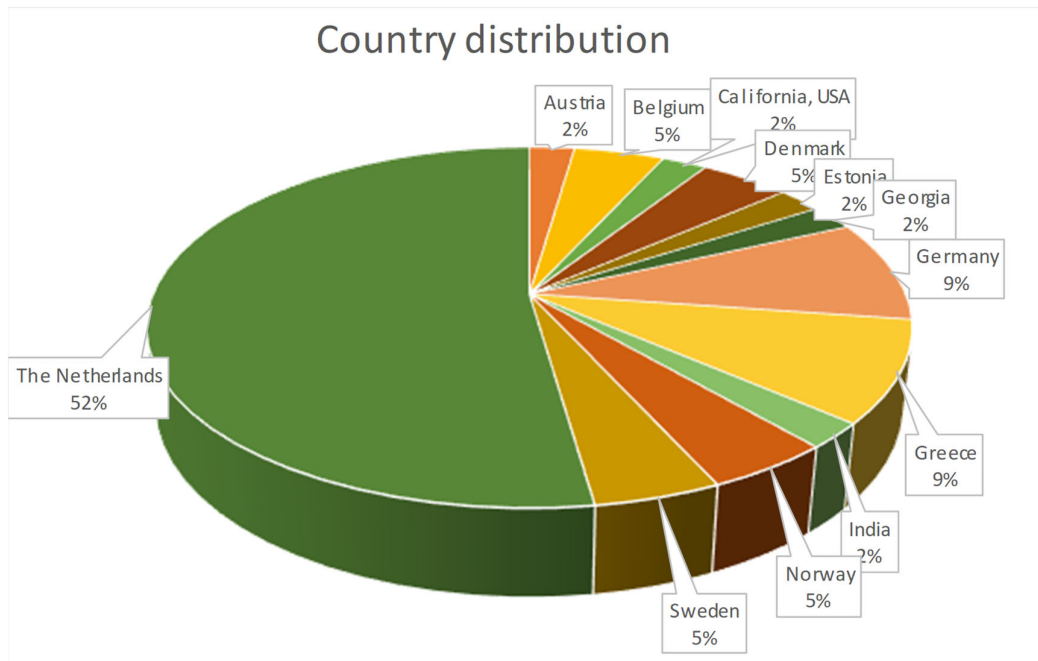
The objectives of the BioCatPolymers workshop were successfully approached through representative presentations of promising R&D activities in the fields of biochemicals production and of demonstration projects of key biochemicals production technologies, promoting in this way networking between academic and industrial stakeholders.

The BioCatPolymers workshop brought together representatives of academic/research organizations and industry to discuss the current and future trends of biochemicals technologies and markets. The interaction between the participants was facilitated via the networking opportunities, i.e. coffee/lunch breaks, tour session of the BPF facilities, and enabled fruitful discussions and possible synergies between the academic and industrial world.

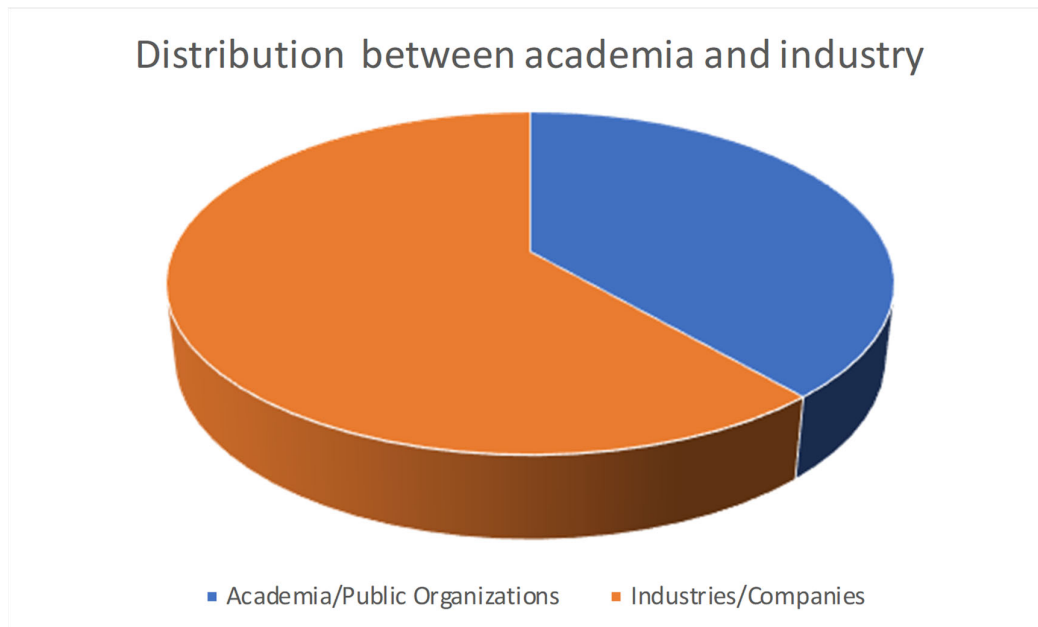
The dissemination of the BioCatPolymers project was successfully combined with the event and promoted by an oral presentation of the coordinator (Dr. A.A. Lappas) at the opening of the conference.

In terms of impact, the workshop was very successful, with 44 participants, coming from 12 different countries. Researchers from both academic/research and business organizations participated in the meeting (analytical list Appendix B). The figures below show the country distribution (Figure 1) and distribution between academia and industry among the participants.

**Figure 1.** Country distribution among the participants.



**Figure 2.** Distribution between academia and industry



#### 4 Photos from the Workshop

	<p>Welcoming of the audience of BioCatPolymers workshop</p>
	<p>Presentation of <i>The H2020 BioCatPolymers project</i> by Dr Angelos Lappas, CPERI/CERTH (GR)</p>



	<p>Presentation of the <b>Industrial perspective on bio-based chemicals: Current status and future outlook</b> by Dr Jakob Marbach, Covestro (DE)</p>
	<p>Presentation of the <b>Advances in biomass pre-treatment for production of cellulosic sugars: The CelluApp process</b> by Dr Tino Lassmann, SEKAB (SE)</p>
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	<p>Presentation of <b>OLEFINE – Safe replacements for insecticides enabled by biotechnology</b> by Prof. Markus Herrgard, Technical University of Denmark (DK)</p>



Presentation of ***CARBAFIN - Route to an integrated biocatalytic glycosylation technology*** by Dr Barbara Petschacher, Institute of Biotechnology and Biochemical Engineering/ Graz University of Technology (AT)



Presentation of ***The scale-up route for fuels and chemicals from 2<sup>nd</sup> generation biomasses*** by Dr Rob AJ Verlinden, BPF (NL)

## Appendix A. Brochure



### Invitation to the Workshop

## *Efficient and sustainable production of high added value biochemicals via biotechnological and chemocatalytic routes*

Delft, The Netherlands

May 15, 2019

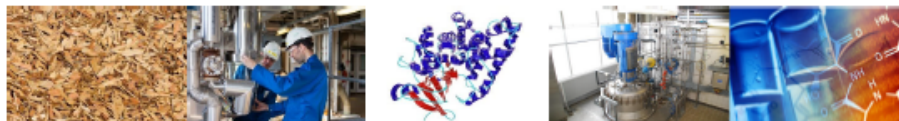
Venue: Biotech Campus Delft, Alexander Fleminglaan 1, 2613 AX Delft

The workshop "*Efficient and sustainable production of high added value biochemicals via biotechnological and chemocatalytic routes*", organized in the frame of the BioCatPolymers H2020 project, aims to bring together researchers from industry and academia, industrial players, local stakeholders and policy makers to discuss recent advances in the production of high added value bio-based platform chemicals.

The workshop agenda will include presentations from major industries active in biochemicals and related European-funded projects working on innovative bio-catalytic and chemo-catalytic process concepts.

The event will close with a tour at the unique facilities of BPF, designed to help develop and up-scale new sustainable production processes for converting bio-based residues into useful chemicals or fuels.

Please register at <http://biocatpolymers.eu/registration> .



This project has received funding from the European Union's Horizon 2020 research and innovation programme, under grant agreement N° 760802.

### Workshop

## *Efficient and sustainable production of high added value bio-chemicals via biotechnological and chemocatalytic routes*

Delft, The Netherlands

May 15, 2019

Venue: Biotech Campus Delft, Alexander Fleminglaan 1, 2613 AX Delft

### AGENDA

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	<b>The scale-up route for fuels and chemicals from 2<sup>nd</sup> generation biomasses.</b>
13:40 – 14:00	<i>Dr Rob AJ Verlinden, BPF (NL)</i>
14:00 – 16:00	<i>Tour in BPF facilities</i>



## Appendix B. Workshop Registrations

A/A	Name	Surname	Company / Institution	Country
1	Dmitry	Bachin	EV Biotech B.V.	The Netherlands
2	Karin	Boström	SEKAB E-technology	Sweden
3	Rahul	Dagwar	Praj Industries	India
4	Tim	Devlamynck	Bio Base Europe Pilot Plant	Belgium
5	Linda	Dijkshoorn	EV Biotech B.V.	The Netherlands
6	Deepak	Dugar	VISOLIS BV	The Netherlands
			Scientific Consulting	
7	Bart	Engendahl	Engendahl	Germany
8	Angel	Fuentes-Mateos	EU	Belgium
9	Solmaz	Ghoreishi	University of Bergen	Norway
10	Joop	Groen	Viride BV	The Netherlands
11	Hilde	Halleraker (Vik)	University of Bergen	Norway
12	Jan	Harmsen	Harmsen Consultancy BV	The Netherlands
13	Eleni	Heracleous	CPERI/CERTH	Greece
			DTU Center for	
14	Markus	Herrgard	Biosustainability	Denmark
15	Petra	Hogervorst	RIVM	The Netherlands
16	Aggeliki	Kalogianni	CPERI/CERTH	Greece
17	Hans	Keuken	Process Design Center	The Netherlands
18	Paul	Körner	University of Hohenheim	Germany
19	Josse	Kunst	Kiduaara	The Netherlands
20	Angelos	Lappas	CPERI/CERTH	Greece
21	Tino	Lassmann	SEKAB E-technology	Sweden
22	Eliana	Lozano	Aalborg University	Denmark
23	Jakob	Marbach	Covestro Deutschland AG	Germany
24	David	Mendez Sevillano	Process Design Center	The Netherlands
25	Kakha	Nadiradze	AFRD	Georgia
26	Segers	Olivier	Zuyd University	The Netherlands
27	Eleni	Pachatouridou	CPERI/CERTH	Greece

28	Dorota	Pawlucka	Covestro Deutschland AG	Germany
29	Lorena	Paz	Viride	The Netherlands
30	Barbara	Petschacher	ACIB/ TU Graz	Austria
31	Peep	Pitk	AS Graanul Invest	Estonia
32	Chance	Plaskett	Visolis, Inc.	California, USA
33	Raf	Roelant	Process Design Center	The Netherlands
34	Pilar	Ruiz	University of Twente	The Netherlands
35	Brett	Russell	Visolis B.V.	The Netherlands
36	Erik	Rutten	Visolis B.V.	The Netherlands
37	Thimo	te Molder	University of Twente	The Netherlands
			Delft University of	
38	Sara	Toscano	Technology	The Netherlands
39	Marcel	van Berkel	Biobased Delta	The Netherlands
40	Matthijs	van Lint	Will & Co B.V.	The Netherlands
41	Rob	Verlinden	BPF	The Netherlands
42	Joshua	Verstappen	Visolis BV	The Netherlands
43	Hank	Vleeming	Process Design Center	The Netherlands
44	Wei	Zhao	Process Design Center	The Netherlands