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RESULTS PACKS

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A pipeline for the discovery, sustainable production and commercial utilisation of known and novel high-value triterpenes with new or superior biological activities

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Objective

Mankind is continually screening low-molecular-weight compounds from a plethora of synthetic and natural sources in the search for molecules with novel or superior pharmaceutical, agrochemical or other biological activities. In this regard, plants are a potentially rich source of bioactive molecules. Because of their extreme diversity and complex chemistry, however, plant metabolism is still underexplored. Consequently, the full potential of plant-derived, lowmolecular weight, bioactive compounds is still largely untapped.

The TriForC consortium will tackle this issue by establishing an integrative and innovative pipeline for the exploitation of plant triterpenes, one of the largest classes of plant bioactive compounds with an astonishing array of structural diversity and spectrum of biological activities. The TriForC partners each bring to the consortium the necessary tools, resources, methods and production systems required to assemble the pipeline and produce high value plant bioactives for commercialisation for use as e.g. new drugs or agrochemicals.

The TriForC consortia will identify new bioactive triterpenes from natural resources by exploring biodiversity. To increase diversity and bioactivity, new-to-nature triterpenes will be derived by semi-synthesis and by an elaborate metabolic engineering platform in plant and microalgal bioreactor-based production systems. To unleash the potential of triterpenes for green biotechnology, structure-activity relationships for triterpenoids will be explored via high throughput screenings for novel chemical entities with potential agrochemical and pharmacological applications. TriForC will further develop and upscale plant-based bioreactors for sustainable commercial production and bio-refining of high-value triterpenes. The TriForC project will guarantee a sustainable and industrially exploitable supply of high value plant compounds with new or superior biological activities ready for commercialisation.

Project Information TriForC Grant agreement ID: 613692 Project website **Status** Closed project End date Start date 30 September 2017 1 October 2013 Funded under FP7-KBBE Overall budget € 8 875 839 **EU** contribution € 6 882 055 Coordinated by KOBENHAVNS UNIVERSITET Denmark

Field of science

/social sciences/economics and business/economics/sustainable economy /engineering and technology/industrial biotechnology/metabolic engineering

Programme(s)

FP7-KBBE - Specific Programme "Cooperation": Food, Agriculture and Biotechnology

Topic(s)

KBBE.2013.3.1-01 - Plant High Value Products - from discovery to final product

Call for proposal

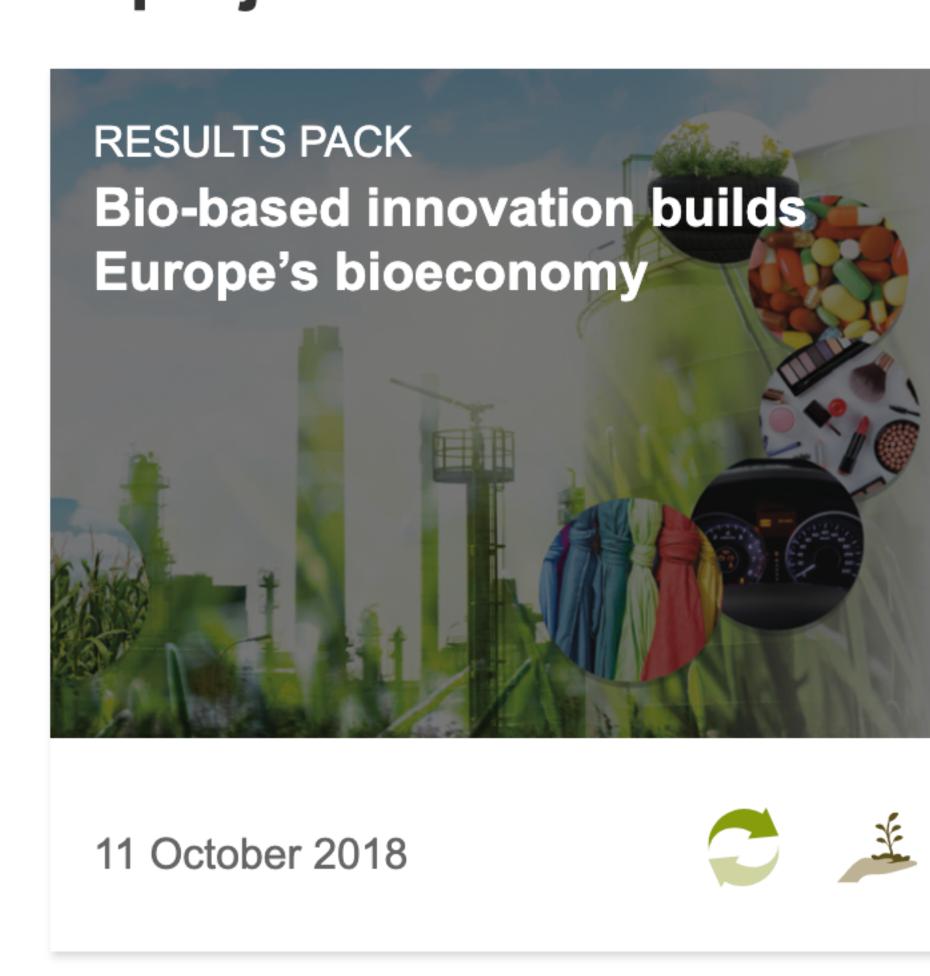
FP7-KBBE-2013-7-single-stage See other projects for this call

Funding Scheme

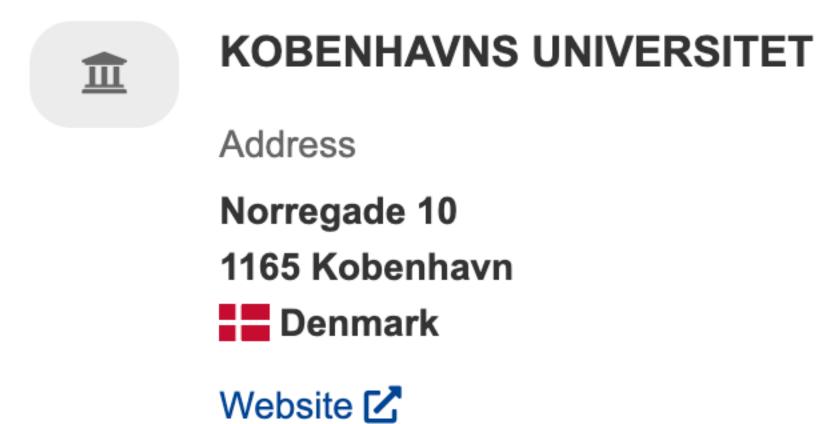
CP-TP - Collaborative Project targeted to a special group (such as SMEs)



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Coordinator



Participants (10)

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Activity type **Higher or Secondary Education Establishments**

Contact the organisation

EU contribution **€ 1 270 960**

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Administrative Contact Søren Bak (Prof.)

	ALKION BIOPHARMA SAS France	EU contribution € 650 720	
	SPICER CONSULTING LIMITED White the second	EU contribution € 778 440	
	VIVACELL BIOTECHNOLOGY ESPANA SL Spain	EU contribution € 590 181	
	STOCKTON ISRAEL LTD Israel	EU contribution € 658 640	
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