Optimization of Perennial Grasses for Biomass Production

Fact Sheet

Project Information

OPTIMA
Grant agreement ID: 289642
Project website
Status
Closed project
Funded under FP7-KBBE
Overall budget € 3 913 249,84
EU contribution € 2 998 319
Coordination by UNIVERSITA DEGLI STUDI DI CATANIA Italy

Start date
1 October 2011
End date
30 September 2015

This project is featured in...

RESULTS PACK
A biomass boost to Europe’s bioeconomy
16 January 2017

Objective

OPTIMA will integrate an ambitious biology system approach for perennial grasses
Moreover the perennial species cardoon, which has been proven to be particularly adapted to the Mediterranean climate, will be used as a control species. The main objective of the OPTIMA project is to identify high-yielding perennial grasses for the Mediterranean area, within optimized production chain that will provide stable source for both biomass and new plant derived bio-products. OPTIMA will explore the potentialities of perennial grasses on underutilized or abandoned marginal lands.

An interdisciplinary approach involving physiology, biotechnology, and agronomy, socio-economical and environmental analysis at different scale levels will be undertaken with the aim at tackling specific bottlenecks of perennial grasses in the Mediterranean area and to create alternative end-use chains. OPTIMA approach has been to link the research proposed here by including industrial end-users in the project. This should allow the output of this research to develop in a commercial context as rapidly as possible the new findings.

The major goals of this multidisciplinary network are to evaluate the existing genotypes; to characterize and deliver novel species; to deliver sustainable crop management practices (sowing/planting strategies to reduce the use of pesticide and increase biomass on the first year establishment, cultivation under salinity conditions and/or water deficit, reducing losses during harvest); to evaluate the industrial production of bioenergy and added value bio-products; to assess the environmental impact through an integrated assessment of sustainability criteria, to disseminate the achieved findings at different level (local, regional, national, international).

Field of science

/social sciences/economics and business/economics/sustainable economy
/engineering and technology/industrial biotechnology/biomaterials
/agricultural sciences/agricultural biotechnology/biomass
/agricultural sciences/agriculture, forestry, and fisheries/agriculture/agronomy

Programme(s)

Topic(s)

Call for proposal

FP7-KBBE-2011-5

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

Coordinator

UNIVERSITA DEGLI STUDI DI CATANIA

Address
Piazza Universita 2
95131 Catania
Italy

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 297 450

Website
Contact the organisation

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Salvatore Cosentino (Prof.)

Participants (20)

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CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING FONDATION

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Activity type
Research Organisations

EU contribution
€ 277 575

Website
Contact the organisation

Administrative Contact
Nikolaos Karapanagiotis (Dr.)
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<tr>
<td>FACULDADE DE CIENCIAS E TECNOLOGIADA UNIVERSIDADE NOVA DE LISBOA</td>
<td>€ 110 000</td>
<td>Quinta Da Torre, 2829 516 Caparica, Caparica</td>
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<tr>
<td>UNIVERSIDAD POLITECNICA DE MADRID</td>
<td>€ 149 969</td>
<td>Calle Ramiro De Maeztu 7, Edificio Rectorado, 28040 Madrid</td>
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<td>IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE</td>
<td>€ 109 999</td>
<td>South Kensington Campus, Exhibition Road, SW7 2AZ London</td>
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**Greece**

EU contribution

€ 100 039

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Peter Soldatos (Prof.)

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**CONSIGLIO NAZIONALE DELLE RICERCHE**

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EU contribution

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**UNIVERSITAT DE LES ILLES BALEARS**

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EU contribution

€ 120 000

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Spain

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08007 Barcelona

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ABERYSTWYTH UNIVERSITY
United Kingdom
EU contribution
€ 129 600

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€ 129 960

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INDIAN INSTITUTE OF TECHNOLOGY DELHI
India
EU contribution
€ 59 400

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Activity type
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Higher or Secondary
110 016 New Delhi
Education Establishments
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<td>China</td>
<td>€ 124 799</td>
<td>Shi-zi-shan Street, Nanhu District 1 430070 Wuhan</td>
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<td>CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA</td>
<td>Italy</td>
<td>€ 50 000</td>
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<td>IFEU - INSTITUT FUR ENERGIE- UND UMWELTFORSCHUNG HEIDELBERG GGMBH</td>
<td>Germany</td>
<td>€ 150 030</td>
<td>Wilckensstrasse 3 69120 Heidelberg</td>
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<td>INSTITUTO DE AGROBIOTECNOLOGIA ROSARIO S.A.</td>
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<td>Ocampo 210 Bis Predio Cct Rosario 2000 Rosario</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>B.T.G. BIOMASS TECHNOLOGY GROUP BV</td>
<td>€ 120 480</td>
<td>Josink Esweg 34 7545 PN Enschede</td>
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<td>SPAPPERRI S.R.L.</td>
<td>€ 100 000</td>
<td>Zona Artigianale San Secondo 06012 Citta Di Castello Pg</td>
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<td>PRIMUS TALALMANYHASZNOSITO, TERMELO, KERESKEDELMI ES SZOLGALTATOT KORLATOLT FELELOSSEGU TARSASAG</td>
<td>Hungary</td>
<td>€ 90 600</td>
<td>Hatvani Utca 25, 1201 Budapest</td>
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<td>TUZETKA</td>
<td>Belgium</td>
<td>€ 180 800</td>
<td>Avenue Reine Astrid 6, 1401 Baulers</td>
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**Last update:** 3 January 2018  
**Record number:** 101188  

**Permalink:** [https://cordis.europa.eu/project/id/289642/](https://cordis.europa.eu/project/id/289642/)

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