G2P-SOL
Project ID: 677379
Funded under:
H2020-EU.3.2. - SOCIETAL CHALLENGES - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy

Linking genetic resources, genomes and phenotypes of Solanaceous crops

From 2016-03-01 to 2021-02-28, ongoing project | G2P-SOL Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 6 891 265</td>
<td>SFS-07b-2015 - Management and sustainable use of genetic resources</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<td>EUR 6 891 265</td>
<td>H2020-SFS-2015-2</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Italy</td>
<td>RIA - Research and Innovation action</td>
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Objective

G2P-SOL is a research alliance bringing together the major European and International repositories of germplasm with public and private institutions active in genomics, phenotyping and breeding in the four major Solanaceous crops: potato, tomato, pepper and eggplant. These four crops constitute 66% of the value of European horticultural production, and over 65,000 accessions are available within the consortium. By harnessing the available global biodiversity, novel genotyping and phenotyping concepts and data analysis tools, the G2P-SOL project will link the genetic code underlying Solanaceae biodiversity with the traits that improve productivity, adaptation and human health. By making this information accessible to end-users, the awareness of the available diversity will be increased and use of this genetic diversity in breeding programs will be stimulated, resulting in diversified production chains. The phenotypes and traits of material held in European and major international collections will be described using common ontology terms developed in this project and this information will be housed in an open source software platform, allowing easy interfacing with existing platforms for germplasm cataloguing. G2P-SOL will develop shared values in science and education in the following areas: 1) Defining and maintaining genetic pools for crop improvement. 2) Phenomic and genomic data: generation, analysis, storage, and linkage with gene banks. 3) Pre-breeding and germplasm enhancement. 4) Training, workshops and public outreach. G2P-SOL will redefine how to manage and organize genetic resources and linked genomic and phenomic information in a manner that will make them accessible to naturalists, geneticists and breeders for conservation, scientific research, and breeding in the post genomic era, in compliance with the objectives of the International Treaty on Plant Genetic Resources and the Nagoya Protocol.

Related information

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<th>Report Summaries</th>
<th>Periodic Reporting for period 1 - G2P-SOL (Linking genetic resources, genomes and phenotypes of Solanaceous crops)</th>
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<tr>
<td>News</td>
<td>G2P-SOL Entry Level Training School on Using Potato Biodiversity in Breeding</td>
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</table>
Coordinator
AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L’ENERGIA E LO SVILUPPO ECONOMICO
SOSTENIBILE
LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76
00196 ROMA
Italy
EU contribution: EUR 841 646,25
See on map
Activity type: Research Organisations
Contact the organisation

Participants
STICHTING WAGENINGEN RESEARCH
DROEVENDAALSESTEEG 4
6708 PB WAGENINGEN
Netherlands
EU contribution: EUR 583 300
See on map
Activity type: Research Organisations
Contact the organisation

THE JAMES HUTTON INSTITUTE
ERROL ROAD INVERGOWRIE
DD2 5DA DUNDEE
United Kingdom
EU contribution: EUR 572 472,50
See on map
Activity type: Research Organisations
Contact the organisation

THE HEBREW UNIVERSITY OF JERUSALEM
EDMOND J SAFRA CAMPUS GIVAT RAM
91904 JERUSALEM
Israel
EU contribution: EUR 376 725
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

LEIBNIZ - INSTITUT FUER PFLANZENGENETIK UND KULTURPFLANZENFORSCHUNG
CORRENSTRASSE 3
06466 SEELAND OT GATERSLEBEN
Germany
EU contribution: EUR 542 320
See on map
Activity type: Research Organisations
Contact the organisation
<table>
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<th>Organisation</th>
<th>Country</th>
<th>Address</th>
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<td>UNIVERSITAT POLITECNICA DE VALENCIA</td>
<td>Spain</td>
<td>CAMINO DE VERA SN EDIFICIO 3A 46022 VALENCIA</td>
<td>EUR 484 248,75</td>
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<td>UNIVERSITA DEGLI STUDI DI TORINO</td>
<td>Italy</td>
<td>VIA GIUSEPPE VERDI 8 10124 TORINO</td>
<td>EUR 298 687,50</td>
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<td>INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE</td>
<td>France</td>
<td>Rue De L'Universite 147 75338 PARIS CEDEX 07</td>
<td>EUR 397 000</td>
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<td>CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA</td>
<td>Italy</td>
<td>VIA PO 14 00198 ROMA</td>
<td>EUR 287 000</td>
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<tr>
<td>THE AGRICULTURAL RESEARCH ORGANISATION OF ISRAEL - THE VOLCANI CENTRE</td>
<td>Israel</td>
<td>Derech Hamcabim 68 50250 BET DAGAN</td>
<td>EUR 245 000</td>
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EURICE EUROPEAN RESEARCH AND PROJECT OFFICE GMBH  
HEINRICH-HERTZ-ALLEE 1  
66386 ST INGBERT  
Germany  
**EU contribution:** EUR 537 185

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

See on map

Contact the organisation

INSTYTUT HODOWLI I AKLIMATYZACJI ROSLIN - PANSTWOWY INSTYTUT BADAWCZY  
RADZIKOW  
05-870 BLONIE  
Poland  
**EU contribution:** EUR 182 830

**Activity type:** Research Organisations

See on map

Contact the organisation

CENTRO INTERNACIONAL DE LA PAPA  
AVENIDA LA MOLINA 1895  
12 Lima  
Peru  
**EU contribution:** EUR 395 892,50

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

See on map

Contact the organisation

PHENOM NETWORKS LTD  
10 PLAUT ST. SCIENCE PARK 1ST FLOOR  
76706 REHOVOT  
Israel  
**EU contribution:** EUR 280 000

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

See on map

Contact the organisation

MINISTRY OF AGRICULTURE AND FORESTRY  
Eskişehir Yolu 9. Km  
06000 Ankara  
Turkey  
**EU contribution:** EUR 176 625

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

See on map

Contact the organisation
MARITSA VEGETABLE CROPS RESEARCH INSTITUTE
BREZOVSKO SHOSSE STREET 32
4003 PLOVDIV
Bulgaria
See on map

Activity type: Research Organisations
Contact the organisation

EU contribution: EUR 152 875

ASIANG VEGETABLE RESEARCH AND DEVELOPMENT CENTER
60 YI-MIN LIAO SHANHUA
74199 TAINAN
Taiwan
See on map

Activity type: Research Organisations
Contact the organisation

EU contribution: EUR 418 002,50

BLUMEN GROUP SPA
CORSO VENEZIA 36
20121 MILANO
Italy
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 59 205

CONSORZIO SATIVA SOCIETA' COOPERATIVA AGRICOLA
VIA CALCINARO 2425
47521 CESENA
Italy
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 60 205

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