THE CONSORTIUM

The CHIC consortium consists of seventeen internationally leading industrial, academic and public partners. Partners are located in 10 European member states, one associated member state (Serbia) and in New Zealand

STICHTING

WAGENINGEN RESEARCH

Droevendaalsesteeg 4, Wageningen 6708 PB, Netherlands

UNIVERSITÉ DES SCIENCES ET TECHNOLOGIES DE LILLE Cite Scientifique Batiment A3, Villeneuve D'Ascq 59655, France

LEIBNIZ-INSTITUT FUR PFLANZENBIOCHEMIE Weinberg 3, Halle 06120, Germany

THE NEW ZEALAND INSTITUTE FOR PLANT AND FOOD RESEARCH LIMITED Mount Albert Road 120, Auckland 1025, New Zealand

WAGENINGEN UNIVERSITY Droevendaalsesteeg 4, Wageningen 6708 PB, Netherlands

FONDAZIONE EDMUND MACH

Via Edmondo Mach 1, San Michele All'Adige 38010, Italy

TEKNOLOGIAN TUTKIMUSKESKUS VTT OY Vuorimiehentie 3, Espoo 02150, Finland

INSTITUT ZA BIOLOŠKA ISTRAŽIVANJA SINIŠA STANKOVIĆ

Bulevar Despota Stefana 142, Beograd 11060, Serbia JULIUS KUHN-INSTITUT BUNDESFORSCHUNG-SINSTITUT FUR KULTURPFLANZEN Erwin-Baur-Strasse 27, Quedlinburg 06484, Germany

GRAZ UNIVERSITY OF TECHNOLOGY Rechbauerstrasse 12, Graz 8010, Austria

ART & SCIENCE SYNERGY FOUNDATION Ul Chelminska 11 6, Poznan 60 645, Poland

EUROPEAN PLANT SCIENCE ORGANIZATION E.P.S.O. Rue de l'Industrie 4, Brussels 1000, Belgium

SENSUS B.V. Borchwerf 3, Roosendaal 4704 RG, Netherlands

INSTITUTO DE BIOLOGIA EXPERIMENTAL E TECNOLÓGICA Av. da Republica, Quinta do Marques S/N, Oeiras 2781901, Portugal

JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH

Leonhardstrasse 59, Graz 8010, Austria

KEYGENE NV Agro Business Park 90, Wageningen 6700AE, Netherlands

IDCONSORTIUM SL Calle Betis 30, Sevilla 41010, Spain



CONTACTS

Project Coordinator Dirk Bosch (dirk.bosch@wur.nl) Stichting Wageningen Research

Exploitation, Dissemination and Communication Officer Macarena Sanz (msanz@idconsortium.es) IDconsortium

EC Project Officer Angel Fuentes Mateos (angel.fuentes-mateos@ec.europa.eu) European Commission Officer DG for Research and Innovation

FOLLOW US ON SOCIAL NETWORKS

- @H2020_CHIC
 H2020 CHIC project
- in CHIC project

www.chicproject.eu



CHICORY AS A MULTIPURPOSE CROP FOR DIETARY FIBRE AND MEDICINAL TERPENES

THE PROJECT

WORK PACKAGES



CHIC is an innovation project aimed at implementing New Plant Breeding Techniques (NPBTs) in chicory, in order to establish it as a multipurpose crop for sustainable molecular farming of products with consumer benefits.

CHIC'S OBJECTIVES AND ACTIVITIES

The aims of CHIC project are:

- To develop and improve NPBTs as *breeding tools* for chicory.
- To provide examples of NPBTs with **benefits for European consumers**, such as the development of chicory varieties which produce prebiotic and immunomodulatory dietary fibres and bioactive terpenes.
- To provide a *socio-economic* analysis of the impact of NPBTs on the chicory value chain (breeders, growers, processing industry, foodand cosmetics industry), by supplying new varieties that produce superior and/or novel products.
- To **develop** risk assessment **protocols** for NPBTs in chicory.
- To monitor *regulatory* and *policy* developments relevant for the implementation of NPBTs in plant breeding.
- To provide a Life Cycle Assessment (LCA) of the **environmental** *impacts* of the novel chicory varieties and products throughout the whole value chain.
- To identify and investigate societal concerns and needs by *involving* stakeholders and considering their views during the entire project period.
- To develop and use innovative, art-based cultural communication tools to stimulate the *interaction* with the public and increase awareness.
- To develop two business cases: one for improved inulin as dietary fibre and sugar replacer, and one for a novel chicory product with health benefits.

LEAD PARTICIPANTS

KevGene

iKi

ŢU

🛈 consortium

WAGENINGEN

PROJECT PARTNERS

WAGENINGEN

WP1. Development of four conceptually different NPBTs.

WP2. Implementation of NPBTs in Chicory for dietary inulin.

WP3. Implementation of NPBTs in Chicory for bioactive terpenes.

WP4. Technical and Risk assessment of NPBTs.

WP5. Socio-economic and environmental impacts on the whole value chain.

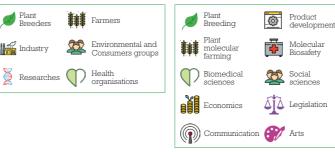
WP6. Stakeholder engagement

WP7. Exploitation, dissemination and communication.

WP8. Commercial exploitation of chicory as a multipurpose crop.

WP9. Management.

STAKEHOLDERS ADVISORY GROUP





CONSUMER AND STAKEHOLDER DIALOGUE

In public debates, NPBTs frequently raise high expectations as well as strong concerns. CHIC will therefore, involve a broad range of stakeholders to raise awareness about these and discuss issues associated with the chicory varieties developed in the project and with NPBTs in general. These include techno-economic potential health benefits, possible environmental and socio-economic impacts, broader societal issues, safety concerns and risk mitigation as well as regulatory and policy measures. Moreover, CHIC will engage with artists who will make themselves familiar with the NPBTs and express their feelings and views in pieces of art, including art installations to inspire a broader public debate.



CHIC'S OUTPUTS

Products from chicory with consumer benefits.

Business cases on inulin and terpenes demonstrating chicory's potential as a multipurpose molecular farming crop.

Implemented NPBTs to allow an efficient breeding of the high potential chicory crop.

Blueprint for responsible pathways and strategies for co-innovation in future plant breeding and plant biotechnology.

Improved communication strategies towards stakeholders and the general public.

Informed decision making for policy makers and businesses.

