



D6.4

Work with the Stakeholder Advisory Group

Interim report

Brussels, 26.2.2020





Document info

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1 The Stakeholder Advisory Group (SAG) in CHIC – general aims and implementation

1.1 Grant Agreement

Work Package 6 Stakeholder Engagement

Task 6.2 Building and engaging with the Stakeholder Advisory Group (SAG) (EPSO, all partners)

The SAG will be composed of 2-4 representatives from each of the four key stakeholder groups: Industries including plant breeders, food and non-food businesses (SMEs as well as large companies); farming communities; research community; and civil society / end user organisations.

The SAG will meet face-to-face once a year and will also participate in stakeholder consultations in Task 6.3.

Between face-to-face meetings, distant communication will be ensured via email and regular conference calls.

Members will be required to sign a Non-Disclosure Agreement provided by the project coordinator (WR) to protect the interests of researchers and business partners in the project. The SAG will advise on (i) WPs 1-8, (ii) fine-tuning of WPs 4-7 e.g. - depending on changes in legal context and national policies on novel breeding techniques to be expected for the next years, (iii) in planning steps and draft results before and in-between stakeholder consultations, and (iv) be involved in the MCA (Task 6.4).

The SAG will support the liaising with other stakeholders, the dissemination in WP7, and the uptake of project results.

1.2 Stakeholder Advisory Group Aims:

- Engage key stakeholder representatives in the project
- To advise the partners throughout the project
- To optimise the project results, their uptake and impact.

1.3 Stakeholder Advisory Group Members:

2-4 representatives from

- | | |
|---------------------------------------|----------------|
| ○ Industry (breeding, food, non-food) | 4 by 26.2.2020 |
| ○ Agriculture | 2 by 26.2.2020 |
| ○ Academia | 3 by 26.2.2020 |
| ○ Civil society / end-user groups | 2 by 26.2.2020 |

1.4 Stakeholder Advisory Group Implementation:

Facilitate **close interaction** between the SAG and the project partners via EPSO and WP leaders

SAG will join annual project meetings:



- 1st project meeting in Brussels, 6.-7.2.2018 – dedicated SAG session
- 2nd project meeting in Wageningen, 12.-13.11.2018 – dedicated session
- 4th project meeting in Helsinki, 25.-26.3.2020 – dedicated SAG session

Between project meetings:

- Partners contacting the SAG:

SAG introduction file for project partners

WP leaders will provide regular updates for SAG via EPSO, interim in urgent cases

- SAG can contact WP leaders directly too

CHIC project information for SAG members

SAG will **participate** in SH consultations (Task 6.3)

- E.g. Conference call with SAG on 11.2.2020

SAG will support the liaising with other stakeholders

SAG will help **disseminate** and support uptake of project results (WPs 7 and 8)

SAG will **advise** on

- WPs 1-8

WP1: Technology development of four conceptually different NPBT for Chicory driving molecular farming: CRISPR CAS: no DNA, transient DNA, integrated DNA but removed by outcrossing, integrated DNA removed by molecular excision

WP2: Implementation of NPBT in Chicory for dietary inulin

WP3: Implementation of NPBT in Chicory for bioactive terpenes

WP4: Technical- and Risk assessment of NPBTs (including regulatory issues)

WP5: Socio economic impact on the whole value chain

WP6: Stakeholders engagement

WP7: Communication and dissemination

WP8: Business cases, value creation and exploitation strategy

- Fine-tuning of WPs 4-7 (e.g. in case legal context / national policies on NBTs change)
- Planning steps and draft results before and in-between of SH consultations (WP6 Task 6.3)
- Be involved in the multi-criteria assessment (WP6 Task 6.4)

1.5. Confidentiality and dissemination

Confidential information:

SAG members sign the Declaration of Confidentiality from EPSO / WR and get access to CHIC information, can advise on it.

Information is by DEFAULT confidential.

Information for dissemination:

will be stated clearly at meetings / in emails and the SAG is kindly asked to help disseminate this through their networks.



2 Stakeholder Advisory Group summary information

2.1. SAG entities, members, deputies, Introduction, Declaration of confidentiality

- √ Introduction text received
- DoC Declaration of Confidentiality signed – received the file 'Project information for SAG' Thereby collaboration with this SAG member is activated.

SAG	Member entity	SAG member / deputy person(s)	SAG # Reply? DoC?	Joined
Industry	Euroseeds	Petra Jorasch / Cesar Gonzalez / Garlich von Essen /	I1 √ DoC	Start
	FoodDrinkEurope	Rebeca Fernandez / Jonas Lazaro-Mojica	I2 √ DoC	Start
	Südzucker	Karsten Harms / Linda Mertens	I3 √ DoC	Start
	PortugalFoods	Deolinda Silva	I4 √ DoC	Start
Farmer organisations	NL chic growers	Hubert Visser	F1 √ DoC	Start
	Copa Cogeca	Troels Prior Larsen / Thor Gunnar Kofoed	F2	Oct'18
Academia	EPSO Horticulture WG / IGZ Grossbeeren	Eckhard George / Marina Korn / Franziska Hanschen	A1 √ DoC	Start
	EPSO Agricultural Technologies WG / INRA	Peter Rogowsky	A2 √ DoC	Start
	EMBO	Michele Garfinkel	A3 √ DoC	Jan'20
End-user representatives	European Economic Social Council (EESC)	Carlos Trias	E1 √ DoC	Oct'18
	European Public Health Association (EUPHA)	Christopher Birt / Enni Mertanen	E2 √ DoC	Dec'19



2.2. SAG interest in CHIC Work Packages (WPs)

SAG / WPs	SAG member / deputy	1 NPBT technol	2 Implement N.. for dietary inulin	3 .. for bioactive terpenes	4 Assess Tech / risk / regul. of N...	5 Socio-econ , env. impacts	6 Engage stakeholders	7 Exploit, dissem, comm.	8 Commercially exploit
Euroseeds	Petra Jorasch / Cesar Gonzalez / GvEssen	x			x	(x)	x	x	x
FoodDrinkEur	Rebeca Fernandez / Jonas Lazaro-Mojica						x	(x)	
Südzucker	Karsten Harms / Linda Mertens		x	x	x		x		
PortugalFoods	Deolinda Silva						x	x	
NL chic growers	Hubert Visser						x	x	
CopaCogeca	Troels Prior Larsen / Thor Gunnar Kofoed						x		
EPSO WG Horti / IGZ Grossbeeren	Eckhard George / Marina Korn / Franziska Hanschen	x	x	x			x		
EPSO WG AgTec / INRA	Peter Rogowsky / Pierre Barret	x			x		x		
EMBO	Michele Garfinkel	x			x	x	x	x	
Eur. Economic Social Council (EESC)	Carlos Trias	x				x	x	x	
EUPHA	Christopher Birt / Enni Mertanen				x	x	x	x	



2.3. SAG participation in CHIC project meetings (Pr. M.) and project conference calls

SAG / Meetings	SAG #	SAG member / deputy	Dedicated to 1 SAG member	Pr M #1 Brussels Feb' 2018	Pr M #2 Wageningen Nov'2018	Conf Call 11.2.2020 Task 6.3.	Pr M #4 Helsinki March 2020	
Euroseeds	I1	Petra Jorasch / Cesar Gonzalez		Kate Wilson	Petra Jorasch	Petra Jorasch	<i>Apologies; written input</i>	
FoodDrinkEur	I2	Rebeca Fernandez / Jonas Lazaro-Mojica		Rebeca Fernandez	Jonas Lazaro-Mojica	Jonas Lazaro-Mojica	<i>Apologies; written input</i>	
Südzucker	I3	Karsten Harms / Linda Mertens		Linda Mertens	Karsten Harms	Karsten Harms	<i>Apologies; written input</i>	
PortugalFoods	I4	Deolinda Silva		Deolinda Silva	Deolinda Silva / Carla Teixeira	Deolinda Silva	Deolinda Silva	
NL chic growers	F1	Hubert Visser		Hubert Visser	Hubert Visser	Hubert Visser	Hubert Visser	
CopaCogeca	F2	Troels Prior Larsen / Thor Gunnar Kofoed		n.a.	Apol. TGK			
EPSO WG Hortic / IGZ Grossbeeren	A1	Eckhard George / Marina Korn / Franziska Hanschen		Marina Korn	Franziska Hanschen	Franziska Hanschen	<i>Apologies; written input</i>	
EPSO WG AgTec / INRA	A2	Peter Rogowsky / Pierre Barret		<i>Apologies</i>	Peter Rogowsky	Peter Rogowsky	<i>Apologies; written input</i>	
EMBO	A3	Michele Garfinkel	Brussels July 2019	n.a.	n.a.	Michele Garfinkel	Michele Garfinkel	
Eur. Economic Social Council (EESC)	E1	Carlos Trias	Brussels Sep' 2018	n.a.	Carlos Trias	Carlos Trias	Carlos Trias	
EUPHA	E2	Christopher Birt / Enni Mertanen	Wageningen Feb' 2020	n.a.	n.a.		Christopher Birt; Enni Mertanen	



3 Stakeholder Advisory Group detailed information

Ind 1 – Euroseeds

by Petra Jorasch, 14.2.2020

SAG member

Member entity: Euroseeds

www.euroseeds.eu

Member person: Petra Jorasch, Manager Plant Breeding and Innovation Advocacy

Deputy person: Garlich von Essen, Secretary General
Cesar Gonzalez, Manager Public Affairs

Expertise of your organisation

- Access to a wide range of companies actively working on NBTs
- Engagement with numerous stakeholders on the potential of plant breeding innovation
- Technical expertise
- Outreach, advocacy and communications expertise

Your interest in the CHIC project

- WP 1: Development of four conceptually different NPBT
- WP4: Technical and risk and regulatory assessment
- 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

Any other information you would like to provide

- Euroseeds is the representative organization of the entire private seed sector
- Euroseeds provides coverage of the entire EU territory and beyond



Ind 2 – FoodDrinkEurope

by Rebeca Fernandez, 22.10.2018; updated by K Metzloff 7.11.2019

SAG member

Member entity:

FoodDrinkEurope (FDE)
www.fooddrinkeurope.eu/

Member person:

Rebeca Fernandez, Director Food Policy, Science and R&D

Deputy person:

Jonas Lazaro-Mojica, Manager Food Policy, Science and R&D;
EU projects and ETP 'Food for Life' Secretariat

Expertise of your organisation

- FoodDrinkEurope is the organisation representing Europe's food and drink industry – the largest manufacturing sector in the EU in terms of turnover, employment and value added. FoodDrinkEurope works with European and international institutions in order to contribute to the development of a legislative and economic framework addressing the competitiveness of industry, food quality and safety, consumer protection and respect for the environment. FoodDrinkEurope's membership consists of 25 national federations, including 2 observers, 27 European sector associations and 20 major food and drink companies. FoodDrinkEurope is also the coordinator of the European Technology Platform (ETP) 'Food for Life', a forum that brings together academia, industry and research organisations to identify the main strategic research priorities for the sector.

Your interest in the CHIC project

- Food and drink companies count on the supply of raw materials and ingredients
- Innovation is essential to delivering new products and improving existing ones
- Responsible pathways and strategies for co-innovation
- Informed decision making for business
- Specially, Work Packages WP4, WP5, WP6 and WP8

Any other information you would like to provide

- Coordinator of the European Technology Platform 'Food for Life' ([link](#))
- The ETP 'Food for Life' is a partner in the FIT4FOOD2030 project ([link](#))



Ind 3 – Suedzucker

by Karsten Harms, 24.9.2018

SAG member

Member entity:

Südzucker AG
www.suedzucker.de

Member person:

Dr. Karsten Harms
Manager in R&D, Molecular Biology & Plant Physiology

Deputy person:

Linda Mertens, Product and Process Development Manager

Expertise of your organisation

Südzucker, with its sugar, special products, CropEnergies and fruit segments, is one of the most significant food industry companies. In the traditional sugar business, the group is Europe's number one supplier of sugar products, with 29 sugar factories and two refineries, extending from France in the west via Belgium, Germany and Austria, through to Poland, the Czech Republic, Slovakia, Romania, Hungary, Bosnia, and Moldova in the east. The special products segment, consisting of the functional food ingredients for food and animal feed (BENEO) division, as well as chilled/frozen products (Freiberger), portion packs (PortionPack Europe) and starch divisions, conducts business in high-growth dynamic markets. The CropEnergies segment is responsible for the bioethanol activities in Germany, Belgium, France and Great Britain. The group's fruit segment operates globally, is the world market leader for fruit preparations and is the most important supplier of fruit juice concentrates in Europe.

The main expertises of Südzucker are on one hand agricultural practice, meaning the growing and harvesting of different crop plants, including sugar beet, chicory, maize, potato and wheat and finally, on the other hand, the processing of plants, including isolation, purification and refining of certain plant derived compounds like e.g. sucrose, fructose, glucose, inulin and starch.

Your interest in the CHIC project

Since chicory is the crop which is processed for purification of inulin and oligofructose, Südzucker would like to see further improvements in chicory breeding. Especially, improvements in inulin yield and quality would be helpful, so that, in consequence, Südzucker could count also in future on the supply of good raw materials with a high quality. Therefore, Südzucker is interested in the outcome of the CHIC project, which is dealing with the establishment of modern breeding techniques like CRISPR-Cas9 in chicory.

Any other information you would like to provide



Ind 4 – PortugalFoods

by Deolinda Silva, 14.11.2018; updated by K Metzloff 7.11.2019

SAG member

Member entity: PortugalFoods
www.portugalfoods.org

Member person: Deolinda Silva
Executive Director

Deputy person: n.a.

Expertise of your organisation

Overall - PortugalFoods, as the main Agri-food Competitive Cluster in Portugal, is a private non-profit association, founded in 2008, that currently brings together about 160 members, including food leading industry companies, entities from the national scientific system (universities, institutes and R&D centers) and other members whose activity is related with agri-food sector (packaging, sensorial analysis, branding, logistics, and others). In order to support the framework in their innovation and internationalization activities, PortugalFoods is a platform where its members establish win-win relationships and has the mission to boost agri-food sector competitiveness:

- 1) by increasing their technological index, supporting knowledge production, as well as knowledge transference and application;
- 2) by promoting their internationalization, identifying opportunities and empowering food companies. Therefore, PortugalFoods has two main areas of activity: knowledge and market departments.

For CHIC Project, the most relevant contribute from PortugalFoods can be done through Knowledge Department. This department aims to boost innovation: increasing the practical application of "knowledge" through It's active transfer, as well as, dissemination of good practices, know-how and R&D results; promoting cooperation between business, research and higher education based on key needs (market/industry) and competences (research) identification. In Addition, this department manages impactful food-related initiatives (i.e. international conferences) and an International Observatory to monitor innovation trends in New Products Development (using Mintel, a market intelligence agency) producing tailor-made reports to specific industry needs, thereby, stimulating innovation. Thus, at a national level, we can our framework from food industry to police makers.

Your interest in the CHIC project

- WP6 Stakeholders engagement
- WP7 Communication and dissemination

Any other information you would like to provide

- Strongly engaged with the agri-food sector community, connecting partners from food industry, research, government, regulators, industry associations, and many other stakeholders.
- Great skills and facilities for dissemination and communication of project outcomes.



Farm 1 – Telersvereniging Inulinecichorei

by Hubert Visser, 18.2.2020

SAG member

Member entity: Growers association inulin chicory (Telersvereniging Inulinecichorei)
www.cichorei.nl/organisatie-cichoreiteelt/cichorei-telersvereniging.html

Member person: Hubert Visser
National chairman

Deputy person: n.a.

Expertise of your organisation

- The Growers association is a Dutch organization that represents 450 chicory growers
- Represents the interests of chicory growers of the organization in the area of the cultivation and distribution

Your interest in the CHIC project

- Health aspects of the chicory root for consumers is very important for us (sugar replacement, fiber-richness, bitterness)
- This is an excellent opportunity to expand cultivation in the long term, improve profit and strengthen the position of the chicory growers
- As a growers' association we believe in innovation and we regard this project as a positive opportunity for our crop
- We support sustainable agriculture that also contributes to public health
- Work Packages: WP7, WP8

Any other information you would like to provide

The Growers association is connected with Sensus B. V.



Farm 2 – Copa and Cogeca

. by successor of Thor Gunnar Kofoed, [pending];
. drafted by K Metzloff 19.11.2019

SAG member

Member entity: Copa and Cogeca
www.copa-cogeca.eu

Member person: Troels Prior Larsen
Chair Danish Seed Growers
www.lf.dk

Deputy person: Thor Gunnar Kofoed
Vice-President Danish Agricultural & Food Council; Danish Seed Council;
COPA/COGECA WP on Seeds, European Seed Growers Group;

Expertise of your organisation

- Overall
- Relevant to the CHIC project

Your interest in the CHIC project

- ...
- ...
- Work Packages (from table above, you may modify if you wish to add a WP)

Any other information you would like to provide

- E.g. other projects / initiatives relevant to CHIC partners you are involved in



Acad 1 – EPSO WG Horticulture / IGZ Grossbeeren

by Marina Korn, 21.9.2018; updated by K Metzloff 7.11.2019

SHG member

Member entity: Leibniz Institute of Vegetable and Ornamental Crops (IGZ)
www.igzev.de

Member person: Prof. Dr. Eckhard George, Director of Research

Deputy persons: Dr. Marina Korn, Scientific Manager
Dr. Franziska Hanschen, head junior research group [“OPTIGLUP-Optimization of Glucosinolate Degradation Pathways for Increased Quality and Health Benefit of Brassica”](#)

Expertise of your organisation

- Functional plant biology
- Plant-microbe systems
- Plant quality and food security
- Climate smart and sustainable horticultural systems (greenhouse and field)
- Relevant to the CHIC project:
 - investigation of secondary plant metabolites in vegetables (glucosinolates, flavonoids, carotinoids etc.) and their relevance for human nutrition and human health
 - Research group and Joint professorship on Food chemistry and Human nutrition
 - Expertise in Greenhouse and field experiments

Your interest in the CHIC project

WP 2 Implementation for dietary inulin
WP 3 Implementation in chicory for bioactive terpenes
WP 6 Stakeholder engagement

Any other information you would like to provide

- Leader EPSO Working Group Horticulture <https://epsoweb.org/working-groups/horticulture/>
- Member of German Consortium Advanced UV 4 Life
- Member of German Consortium Nutriact (<http://foodserver.foodtech.tu-berlin.de/research/?L=2>)



Acad 2 – EPSO WG Agricultural Technologies / INRA

by Peter Rogowsky, 9.4.2018; updated by K Metzloff 7.11.2019

SAG member

Member entity: Institut National de la Recherche Agronomique, INRA
www.inra.fr/en

Member person: Peter Rogowsky
Deputy Head of Plant Biology and Breeding Division

Deputy person: Pierre Barret
Research scientist

Expertise of your organisation

- INRA is the first agricultural research institute in Europe by its size and by its number of citations. Its scientists are working towards solutions for society's major challenges related to food, nutrition, agriculture and the environment.
- France belongs to the main chicory growing countries in Europe.

Your interest in the CHIC project

- Use of NPBT in plant science and in agriculture
- Use of genome editing in crop plants
- Work Package 6

Any other information you would like to provide

- Coordinator of the French stimulus project GENIUS devoted to genome editing in crops
- Co-chair of the EPSO Agricultural Technology Working Group <https://epsoweb.org/working-groups/agricultural-technologies/>



Acad 3 – EMBO

by Michele Garfinkel, 17.1.2020

SAG member

Member entity:

EMBO

www.embo.org

Member person:

Michele Garfinkel

Head, Science Policy programme, EMBO

www.embo.org/science-policy

Deputy person:

N/A

Expertise of your organisation

- EMBO stands for excellence in the life sciences. The goals of the organization are to support talented researchers at all stages of their careers, stimulate the exchange of scientific information, and help build a European research environment where scientists can achieve their best work.
- EMBO helps young scientists to advance their research, promote their international reputations and ensure their mobility. Courses, workshops, conferences and EMBO Press publications disseminate the latest research and offer training in techniques to maintain high standards of excellence in research practice. EMBO helps to shape science policy by seeking input and feedback from our community and by following closely the trends in science in Europe. We support training in research integrity for all of our community.
- EMBO supports talented researchers, selected through impartial evaluation processes, to allow them to do great science. The wide scientific scope across the full range of life science research coupled with the broad geographical reach of more than 1800 members and associate members – some of the best researchers in Europe and around the world – positions EMBO optimally to serve Europe's life science community.
- Relevant to the CHIC project, many of EMBO's 1800 members work in the general area of plant sciences, with an emphasis on molecular plant sciences. These members both inform our work when we participate as the EMBO secretariat in stakeholder groups such as CHIC, and as well are experts who are themselves happy to participate in or provide expertise to stakeholder groups.
- Additionally, the head of the Science Policy Programme has been involved in work on regulation, risk assessment, and technology assessment (particularly with respect to these issues in the United States) for over 20 years, and the science policy programme at EMBO for 10 years. EMBO itself has been a focal point for molecular biology risk assessment since the Asilomar meetings and follow-ons in the mid 1970s.

Your interest in the CHIC project

- Work Packages 1, 4, 5, 6, 7 (In WP4, technical and risk assessment, and WP 6, stakeholder engagement, EMBO has extensive expertise and experience. Work packages 1, 5, and 7 are of general interest to us.)

Any other information you would like to provide

- EMBO is interested in the general issues around the distinctions in process v. product regulation in Europe. Particularly with the emergence of concerns around gene editing, our Members have been engaged with us in thinking about ways to improve that system.



- EMBO is a partner in the tangentially related H2020 project BioRoboost, regarding standards in synthetic biology, and is part of the work package on biosafety standards.



End user 1 – European Economic and Social Committee (EESC)

by Carlos Trias 31.1.2020

SAG member

Member entity:

European Economic and Social Committee (EESC)
<https://www.eesc.europa.eu/en>

Member person:

Carlos Trias
Internal Market, Production and Consumption Section Vice-President
[EESC page](#)

Deputy person:

N/A

Expertise of your organisation

- Spanish Member of the European Economic and Social Committee since January 2009. In this capacity, representative of the Spanish Council of Consumers and Vice President of the Section for the Single Market, Production and Consumption. Rapporteur of several EESC opinions, the most recent are “The EC Action Plan on Sustainable Finance” and “The role of consumers in the Circular Economy”. Currently, Rapporteur of “The European Green Deal Investment Plan”.
- From the last decade focused on sustainability and consumer information, transparency through agri-food value chain and social and environmental impacts accreditation. Currently, involved in the -in building- EU new taxonomy of sustainable activities and the UN SDGs indicators.

Your interest in the CHIC project

- WP 1: Development of four conceptually different NPBT
- WP5: Socio-economic and environmental impacts on the whole value chain
- WP6: Stakeholder engagement
- WP7: Exploitation, dissemination and communication

Any other information you would like to provide

The [2019 Europe Sustainable Development report](#) prepared by [SDSN](#) and [IEEP](#), **with the support of the EESC**. The report provides an analysis of the implementation of the Sustainable Development Goals (SDGs) in the EU.



End user 2 – European Public Health Association (EUPHA)

by Maaïke Droogers & Christopher Birt, 14.2.2020

SAG member

Member entity:

European Public Health Association (EUPHA)
<https://eupha.org/>

Member person:

Christopher A Birt
Until recently Honorary Clinical Senior Lecturer, Univ Liverpool, Dept. Public Health and Policy, UK (now retired)
Member of the committee of the EUPHA Food and Nutrition Section. Chair of the Section for six years until late summer 2018.

Deputy person:

Enni Mertanen
Member of the committee of the EUPHA Food and Nutrition Section. Chair of the Section for some years until 2012.

Expertise of your organisation

- The European Public Health Association (EUPHA) is an umbrella organisation for public health associations and institutes in Europe. EUPHA is an international, multidisciplinary, scientific organisation, bringing together around 19,000 public health experts for professional exchange and collaboration throughout Europe.
- EUPHA encourages a multidisciplinary approach to public health.
- EUPHA was founded in 1992. EUPHA now has 86 members from 47 countries: 41 national associations of public health; 25 institutional members; seven individual members; two global members; and 14 partners.
- EUPHA publishes the European Journal of Public Health, the leading peer-reviewed academic journal on public health. The impact factor of the EJPH is 2.234 which puts the journal amongst the most highly cited health journals in Europe. Regular EUPHA publications include the monthly newsletter, sent electronically to over 21,934 professionals, and factsheets.
- EUPHA organizes the European Public Health Conference, the annual meeting place for researchers, policy makers, practitioners to learn, network and engage with colleagues to strengthen the profession of public health. The conference brings together more than 2,000 public health professionals from across Europe and around the world.
- EUPHA has three main aims:
 - To be a leading scientific and independent voice in the field of public health and health services research and policy;
 - To build capacity and knowledge in the field of public health and health services research with the aim of supporting evidence-informed practice and policy decisions; and
 - To prepare future generations of engaged and connected public health professionals for their leadership role in public health.
- There are four main “pillars” of activity within EUPHA, which are self-explanatory: Public health research; Service public health; Public health education; Public health advocacy.
- Organisationally EUPHA has a number (currently over 20) specialist sections, representing different components of public health work. The Section on Food and Nutrition is the one now associated with the CHIC SAG.

Your interest in the CHIC project

- WP4: Technical- and Risk assessment of NPBTs (including regulatory issues)
- WP5: Socio economic impact on the whole value chain



- WP6: Stakeholders engagement
- WP7: Communication and dissemination



4 Stakeholder Advisory Group Meetings

4.1. Project Meeting #1: Brussels, 6-7.2.2018 SAG session 7.2.2018

Date / venue: Brussels, 7.2.2018 @ European Commission, 09:00 – 12:00

Aim: Introduce project partners and SAG members to each other, provide introduction to the project work and receive feedback and advice from the SAG members

Participants:

CHIC partners and the following SAG members:

SAG entity	SAG #	Participant
ESA	Ind 1	Kate Wilson
FoodDrinkEurope	Ind 2	Rebeca Fernandez
Südzucker	Ind 3	Linda Mertens
PortugalFoods	Ind 4	Deolinda Silva
NL chicory growers	Farm 1	Hubert Visser
EPSO WG Horticulture / IGZ Grossbeeren	Acad 1	Marina Korn
EPSO WG Agricultural Technologies/ INRA	Acad 2	

SAG session – moderated by Karin Metzloff and Armin Spoek

9:00 part 1: **Welcome and project intro** by Dirk B

9:10 part 2: **Intro SAG concept** by Karin M

9:20 part 3: **Intro round each SAG member**

9:40 part 4: **WP round - Each WP leader** introduces the WP; Immediate feedback by SAG moderated by Karin M

- WP1 – Michiel de Both: Technology development of four conceptually different NPBT for Chicory driving molecular farming: CRISPR CAS: no DNA, transient DNA, integrated DNA but removed by outcrossing, integrated DNA removed by molecular excision
- WP2 – Ingrid van der Meer: Implementation of NPBT in Chicory for dietary inulin
- WP3 – Alain Tissier: Implementation of NPBT in Chicory for bioactive terpenes
- WP4 – Thorben Sprink: Technical- and Risk assessment of NPBTs (including regulatory issues)
- WP5 – Maria Hingsamer: Socio economic impact on the whole value chain
- WP6 – Armin Spoek: Stakeholders engagement
- WP7 – Macarena Sanz: Communication and dissemination
- WP8 – Suvi Haekkinen: Business cases, value creation and exploitation strategy

11:50 part 5: Final **general remarks by the SAG** moderated by Armin S and closing

Discussion:

All SAG members asked questions and provided valuable advice to the CHIC partners.



4.2. Meeting EESC: BRU, 26.9.2018 C Trias, K Metzloff, M Sanz

Date / venue: Brussels, 26.9.2018 1pm – 4pm @ EPSO office

Aim: Introduce CHIC and C Trias to each other, provide introduction to the project work and find out if C Trias / EESC would be a potential SAG member to suggest this to the consortium.

Participants:

CHIC partners: Karin Metzloff (EPSO), Macarena Sanz (ID-Consortium)

Potential new SAG member: Carlos Trias, European Economic and Social Council (EESC)

Discussion:

- Karin M and Macarena S introduced CHIC and the engagement of the SAG
- Carols T introduced himself and the EESC
- Discussed potential interest in CHIC and contributions to CHIC as possible SAG member



4.3. Project Meeting #2: WAG, 12-13.11.2018 SAG session 13.11.2018

12.11.2018: Dinner of project partners with the SAG

Date / venue: Wageningen, 13.11.2018 @ WUR, 09:00 – 12:00

Aim: Introduce project partners and new SAG members to each other, provide update to the project work and receive feedback and advice from the SAG members

Participants:

CHIC partners and the following SAG members:

SAG entity	SAG #	Participant
ESA	Ind 1	Petra Jorasch
FoodDrinkEurope	Ind 2	Jonas Lazaro-Mojica
Südzucker	Ind 3	Karsten Harms
PortugalFoods	Ind 4	Deolinda Silva; Carla Texeira
NL chicory growers	Farm 1	Hubert Visser
Copa and Cogeca	Farm 2	<i>Apologies Thor Gunnar Kofoed</i>
EPSO WG Horticulture / IGZ Grossbeeren	Acad 1	Franziska Hanschen
EPSO WG Agricultural Technologies / INRA	Acad 2	Peter Rogowsky
EESC	End user 1	Carlos Trias

SAG session – moderated by Karin Metzlafl and Armin Spoek

9:00 part 1: **Welcome and project intro** by Dirk B

9:10 part 2: **Remind SAG concept** by Karin M

9:20 part 3: **Intro round each SAG member** (several new people)

9:40 part 4: **WP round - Each WP leader introduces the WP; Immediate feedback by SAG moderated by Karin M**

- WP1 – Michiel de Both: Technology development of four conceptually different NPBT for Chicory driving molecular farming: CRISPR CAS: no DNA, transient DNA, integrated DNA but removed by outcrossing, integrated DNA removed by molecular excision
- WP2 – Ingrid van der Meer: Implementation of NPBT in Chicory for dietary inulin
- WP3 – Alain Tissier: Implementation of NPBT in Chicory for bioactive terpenes
- WP4 – Thorben Sprink: Technical- and Risk assessment of NPBTs (including regulatory issues)
- WP5 – Maria Hingsamer: Socio economic impact on the whole value chain
- WP6 – Armin Spoek: Stakeholders engagement
- WP7 – Macarena Sanz: Communication and dissemination
- WP8 – Suvu Haekkinen: Business cases, value creation and exploitation strategy

11:50 part 5: Final **general remarks by the SAG** moderated by Armin S and closing

Discussion:

All SAG members asked questions and provided valuable advice to the CHIC partners.



4.4. Meeting EMBO

BRU, 15.7.2019

M Garfinkel, K Metzloff

Date / venue: Brussels, 15.7.2019 12:00 – 14:00 @ EPSO office

Aim: Introduce CHIC to M Garfinkel, provide introduction to the project work and find out if M Garfinkel / EMBO would be a potential SAG member to suggest this to the consortium.

Participants:

CHIC partner: Karin Metzloff (EPSO)

Potential new SAG member: Michele Garfinkel, EMBO

Discussion:

- Karin M introduced CHIC and the engagement of the SAG
- Karin M knows M Garfinkel and EMBO
- Discussed potential interest in CHIC and contributions to CHIC as possible SAG member



4.5. Meeting EUPHA WAG, 5-6.2.2020 C Birt, E Mertanen, K Metzloff, D Bosch

Date / venue: Wageningen, 6.2.2020 09:45 – 20:00 @ WUR

Aim: Introduce CHIC to C Birt and E Mertanen, provide introduction to the project work, clarify questions about CHIC and find out how EUPHA could best be engaged as SAG member.

Participants

CHIC partners: Dirk Bosch, Katarina Cankar, Ingrid van der Meer (WUR)
Karin Metzloff (EPSO)
Armin Spoek and Christian Daye (TU Graz – by video call)

Potential new SAG member: Christopher Birt and Enni Mertanen for EUPHA

Agenda

Wed, 5.2.2020 - Arrival

Th, 6.2.2020

- 9:45 meet at WUR
 - 10 – 12 noon @ video conference:
 - Introduction to EUPHA: Chris B and Enni M
 - introduce EUPHA, your role within EUPHA and your interests in the topic.
 - Introduction to the CHIC project: always immediately questions by Chris & Enni
 - Dirk B - Overall project
 - Armin S - WP6
 - Karin M - SAG work
 - 1-3 pm Project and Lab tour.
 - 13.00h Genome editing in plants (Dirk):
 - 13.15h Inulin as food fibers (Ingrid)
 - 13.45h Terpenes and their health applications (Katja)
 - 14.15h Receptomics: taste and health assays (Maurice Henquet)
 - 14.35h Lab tour
 - 15.30h Greenhouse visit and walk (5 min) to Wageningen Food and Biobased Research (WFBR)
 - 4-5 pm WFBR Jurriaan Mes (Research coordinator Food Health Research)
 - 7 pm Dinner
- Fr, 7.2.2020 - Departure

Discussion:

- Chris B and Enni M introduced EUPHA
- Dirk B, Armin S, Karin M and Ingrid vdM introduced CHIC and the engagement of the SAG
- Discussed open questions on CHIC and EUPHA engagement in CHIC as SAG member.



4.6. Conference call 11.2.2020 SAG

Date / venue: Conference call, 11.2.2020, 13:00 – 15:00

Aim: Introduce WP6, stakeholder consultations and discuss possible scenarios to use for these. Discuss dedicated SAG session at upcoming project meeting in Helsinki.

Participants:

CHIC partners: Armin Spoek and Christian Daye (TU Graz, WP6 lead)
 Karin Metzloff (EPSO, WP6 co-lead)
 Dirk Bosch and Katarina Cankar (WUR, coordinator)
 Thorben Sprink (JKI, WP4 lead)
 Maria Hingsamer (JR, WP5 lead)
 Macarena Sanz (IDC, WP7 lead)
 Matthew de Roode (Sensus, WP8)

The following SAG members:

SAG entity	SAG #	Participant
Euroseeds	Ind 1	Petra Jorasch
FoodDrinkEurope	Ind 2	Jonas Lazaro-Mojica
Südzucker	Ind 3	Karsten Harms
PortugalFoods	Ind 4	Deolinda Silva
NL chicory growers	Farm 1	Hubert Visser
Copa Cogeca	Farm 2	-
EPSO WG Horticulture / IGZ Grossbeeren	Acad 1	Franziska Hanschen
EPSO WG Agricultural Technologies / INRA	Acad 2	Peter Rogowsky
EMBO	Acad 3	Michele Garfinkel
EESC	End user 1	Carlos Trias
EUPHA	End user 2	<i>apologies</i>

SAG call – moderated by Christian Daye, Armin Spoek and Karin Metzloff

- 3:00 **Welcome and introduction** by Karin M
- 3:15 **WP6 research strategy and the role of the scenarios** by Christian D
- 3:40 **The scenarios** by Armin S
- 4:00 **Implications, consequences and politically decisive events** by Christian D
- 4:15 **Prepare the SAG session at the Helsinki project meeting** by Karin M
- 4:45 **AOB and closing** by Christian D

Discussion:

- Clarify aim, implementation and participants of the various stakeholder consultations (SHCs)
- Discuss proposed scenarios and possible modifications
- Postponed discussion on possible 'events' to the Helsinki project meeting and the 2nd conference call with the SAG
- Discuss possible participants in the SHCs
- Discuss 1-3 themes for the dedicated SAG session in Helsinki in March 2020.