

Spring 2021 newsletter

This is the shorter public version. All articles with * are only in the full Newsletter available on the members' only website.

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About EPSO



EPSO offers to contribute to developing and implementing the Biodiversity Partnership



<u>EPSO</u> welcomes the Biodiversity draft Strategic Research and Innovation Agenda (SRIA) and offers to collaborate with the Member States, the European Commission, and stakeholders to implement it.

We particularly welcome and strongly support the ambition of the upcoming Biodiversity Partnership that 'Research and Innovation in the biodiversity domain will recognize that ecological, social and technological changes go hand in hand and co-evolve, and to focus on this alignment and breakdown of silos.'

EPSO appreciates that the draft SRIA <u>links environmental sustainability, food and nutritional security, and human health</u>. EPSO urges application of this approach across the SRIA as a whole.

As part of the 'Need for transformative change', the Draft SRIA points out that: "Reversal of biodiversity loss is only possible with urgent transformative change that tackles the root causes of biodiversity and linked challenges including climate change, urbanization, food and fibre production, and health...." To this end, EPSO suggests considering the paper by Leclere et al. (2020), which shows through modelling that ambitious conservation efforts (protected nature reserves, restore degraded land, landscape-level conservation planning), combined with food-system transformations (boosting agricultural yields, globalize food trade, reducing food waste, globally adopt healthy diets by halving meat consumption), are central to an effective post-2020 biodiversity strategy. This strategy could avoid two-thirds of biodiversity loss as well as adverse outcomes for food affordability.

EPSO suggests including the concept of "diverse crops for diverse diets and human health and resilient production", because increasing biodiversity on cultivated land will benefit not only the environment, but also at the same time nutritional security and human health. This can be achieved by improving under-utilised and often already nutritious crops (species and varieties) to make them more resilient and economic for farmers to cultivate; their nutritional quality for humans can be enhanced further as well.

Similarly, EPSO suggests "combined approaches on crop improvement, crop management and crop processing" to enable interdisciplinary and cross-sectorial approaches with co-benefits in Europe and beyond, and to bring the various scientists, breeders, farmers, and processors together for a comprehensive approach from the start in order to achieve a better impact than adding up separate solutions at the end. Crops will have been improved to be more resilient and tolerant to biotic and abiotic stresses and to use less plant protection and fertilisation products, while ensuring healthy plants, a harvest of high quantity and quality, and smart processing to protect and possibly enrich beneficial compounds for human diets and health.

The partnership rightly <u>defines the goals and should leave the pathways to reach these open</u> – based on open and transparent approaches ranging from research to innovation, public procurement to legislation.

We are looking forward to help implement this SRIA with policy makers and stakeholders for a better Europe and world!

Links:

- Biodiversity draft SRIA, January 2021
- EPSO statement on the Draft SRIA, 29.1.2021 www.epsoweb.org
- Leclere D. et al. (2020) Bending the curve of terrestrial biodiversity needs an integrated strategy. Nature 585, 551-556.

Contact: Karin Metzlaff, BE



EPSO Activities



New EPSO Plant Science Seminar Series Goes Live

On March 18th at 15:00 the European Plant Science of the technology for use in plants and highlighted the community had the opportunity to come together potential impacts of its use for agricultural sustainability, virtually for a new European-wide seminar series environmental protection and human health. The organised by EPSO. The aim of this new initiative is to seminar attracted over 280 registrants and around 140 provide a stimulating set of seminars once a month on a simultaneous participants. We will follow up this hot and/or emerging topic in plant science, giving the successful start with a seminar in April on The floor to both eminent world leaders and talented up-and Wonderful World of Plant Microbe Interactions and in -coming early career researchers. We also hope that May on Cutting Edge Techniques for Understanding the this monthly gathering will become a way to provide Hidden World of Root Development. networking and communication among the EPSO membership.

been much debated by policy makers in countries all across Europe, the jury is still out as to whether name and potential talk title. regulation will stymie its potential to deliver impact of





approach, Prof Puchta, Karlsruhe Institute of Smulders, Wageningen Dundee, UK University who gave us insight into the development

In the coming months we will be on the lookout for talented plant scientists among the EPSO membership Our inaugural seminar focused on the highly debated to present their findings and perspectives. If you wish to subject of genome editing in plants. While this topic has nominate yourself or one of your colleagues to give a seminar, please contact Tim George to provide your

global significance. We heard from two European So, remember TTT: be available on the Third leaders of the use of this Thursday of the month at Three (CET) for some Holger inspirational talks from European Plant Science.

Technology and Dr René Contact: Tim George, The James Hutton Institute,



EPSO Workshop 'Addressing the Nutritional Security challenge is a strategic issue for Europe under COVID-19 pandemic' - 15-16.6.2021



Working Group will hold workshop to discuss the latest (bio) Korn (korn@igzev.de). technologies which can contribute to

Europe'. The meeting intends to collaborations between the working group members at improve national authorities.

The workshop will be held online 15-16 June 2021 from This issue is linked to the UN Sustainable Development 9 am to 1pm.

The Workshop sessions are: Introduction and update and in the Farm to Fork and the Biodiversity strategies on European Commission and Member States under the European Green Deal, foci of the Horizon initiatives; Re-discovering underused species and landraces of fruits, vegetables and staple crops; Use of Addressing these challenges is getting even more new metabolic engineering / new breeding technologies urgent, since new scenarios to re-design high quality crops; Linking the concept of diverse diet, bioactive compounds & the prevention of human diseases.

See the workshop Draft Programme (02.04.2021) and the <u>Draft Statement on Nutritional Security</u> (9.5.2020) We very much look forward to your contributions and to which will be further discussed at the workshop.

inspirational note by providing your name, affiliation, (Uni Milano / IT), Angelo Santino (CNR / IT) and Karin talk title & to which session you offer this by 30 April for Metzlaff (EPSO). the chairs to be considered and included in the

The EPSO Nutritional Security programme, and to register for your participation to its the workshop before 15 May, both by e-mail to Marina

define a new roadmap focused on Background: The access to healthy and nutritious food achieve the Nutritional Security issue in at reasonable prices for all the European citizens is increase mandatory under COVID-19 pandemic, if we want to human wellbeing, reduce over-loading both bi-and multi-lateral levels. In addition, it will provide medical / hospital capacities and promote the transition a report including recommendations on R&I as science to new more sustainable food systems. This is captured advice to policy to the European Commission as well as in the concept of 'Diverse crops for diverse diets for human health and resilient production', promoted by EPSO.

> Goals (SDGs) 2 (zero hunger) and 3 (good health and well-being) proposed in the World Food Programme, Europe Programme for Research and Innovation.

> [global warming, overpopulation of metropolis, globalized trade systems, invasion/destruction of wildlife habitats, new emerging zoonotic diseases] will likely impact on our common behaviors and choices related to food and nutrition.

welcoming you at the workshop.

We kindly ask EPSO members to offer a 5 min Contacts: Monika Schreiner (IGZ / DE), Chiara Tonelli

Plant Biology 2021 Congress: last update



The organization of the PBE2021

selecting those admitted for oral presentation.

23 Keynote talks by top European and world scientists involved in Plant Biology research. Keynote talks will introduce specific parallel sessions concluded by a final live discussion. We have taken advantage from the The Local Organizing Committee and the PCO are will ensure networking by Plenary ad Session discussion, and by a 1 to 1 chat system.

Congress, In addition, the two EPSO Young Plant Scientists originally planned to be held Awardees, Ann-Katrin Beuel (on applied plant in Turin on behalf of EPSO and FESPB, demonstrated research) and Apolonio Huerta (on fundamental plant full resilience to Covid-19 emergency by re-starting work research) will present their work. EPSO is inviting you to to finally and successfully hold the Congress as an the science and policy session 'Plant Research online event from 28 June to 1 July 2021. Following the European Green Deal - Global Future' discussing decision of the Scientific Organizing Committee, with you contributions of plant science to the European abstract submission was re-opened in October 2020, Green Deal and the UN Sustainable Development and the abstracts were evaluated in March 2021 Goals (SDGs) and the role of the Horizon Europe Research and Innovation Programme. The European Commission and EPSO will hold the session on 'The The Congress program will host 12 Plenary lectures and ERC - European funding for frontier research in plant' and the GPC and EPSO invite you to their workshop on the Nagoya Protocol.

online format by promoting the best evaluated abstracts working hard in order to showcase the latest advances which could not find place within sessions to be in Plant Biology to the European and wider scientific presented as 10-minute Extended Elevator Pitches in a communities. We look forward to meet you in our dedicated on-demand session. The Congress platform friendly (virtual) city for a vibrant and exciting Congress!

Contact: Andrea Schubert, University of Turin, IT



Virtual Fascination of Plants Day 2021 in May



countries across the world will organise #FoPD #Plantsday #PlantDay. online events to get you fascinated and

enthused about plants.

To find a complete list of activities available during Fascination of Plants Day, check the news section of Around 18 May 2022 will be the next official FoPD, the dedicated website. In 2022, events will be back on hopefully then again with physical and virtual events. each dedicated country page.

You can also follow the sporadic FoPD 2021 and EPSO, BE; Trine Hvoslef-Eide, Norwegian University of events' announcements on FoPD social media: Twitter Life Sciences, NO, Przemysław Wojtaszek, Adam (@PlantDay18May), **Facebook**

During May 2021, National Coordinators (@fascinationofplantsday). Feel free toshare your and event organisers of several pictures and experience while tagging our accounts with

> The FoPD team is wishing you an entertaining exploration of its events.

Contacts: Global coordinators: Alexandra Barnoux, Instagram Mickiewicz University, PL; Karin Metzlaff, EPSO, BE.



ERA-Net SusCrop activities



funded projects that have now officially started (Spring https://www.suscrop.eu/2021-joint-call. 2021) can be found on the SusCrop website: https:// Within the scope of the EPSO Fascination of Plants Day www.suscrop.eu/call-information/2nd-call. Α research projects' kick-off meeting will be held digitally launch a 'call for video awards'. Please stay tuned! in June 2021.

ERA-Nets SusAn (Sustainable Animal Production research strategies and additional activities. Systems), FACCE ERA-GAS (Monitoring and Mitigation of Greenhouse Gases from Agriculture and Silviculture), Contact: Nikki De Clerq, ILVO, Research Institute for ICT-AGRI-FOOD have coordinated and aligned efforts Agriculture, Fisheries and Food, BE in areas of mutual interest and established a joint call in

In February 2020, The ERA-Net the field of agricultural greenhouse gas (GHG) Cotund on Sustainable Crop research, focusing on circularity in mixed crops and Production (SusCrop) launched a 2nd livestock farming systems with emphasis on climate transpositional call farms. transnational call for proposals. This change mitigation and adaptation. This joint call for resulted in the selection of eight proposals follows a one-stage submission procedure consortia for funding with a total and is open until May 26, 2021 (15:00 CEST). For more amount of about 7,5 Mio €. More information about the information, please visit the submission tool website:

joint in May 2022, SusCrop will soon (early Summer 2021)

Early 2021, the ERA-Net SusCrop together with the EPSO is official observer in SusCrop and advices on



Members' news



Welcome to the Future Food Beacon, University of Nottingham, UK



The Future Food Beacon is an integrated openresearch platform that embraces transdisciplinary research. Future Food brings together soil science, chains and consumer preferences. We also harness whole. the power of digital technologies.

can be found at our website: nottingham.ac.uk/future- Agriculture Organisation (FAO). food and our blog: blogs.nottingham.ac.uk/futurefood

One particular research strength is around the the challenges of delivering equitable access 'rhizosphere', exploring how plant roots interact and healthy, respond to soil and the microbiota that live there. produced food in a post-COVID-19 world. Assoc. Prof. Gabriel Castrillo is a leader in this field, with a recent paper published in Science. Another Contact: Gabriel Castrillo

growing strength is the work of Prof. Andrew Salter and the Future Proteins Platform team, who are evaluating novel plant and non-plant protein sources and developing variants most suitable for animal feeds and/ or human consumption.

We host an International Agriculture Doctoral Training Programme, run jointly with Rothamsted Research. The PhD candidates come from all over the world, including Bangladesh, Ethiopia, Ghana, India, Indonesia, Kenya, Malawi and Zimbabwe. They bring with them expertise primary production (crops and livestock), nutritional and diverse cultural backgrounds that are invaluable to science, food processing and manufacturing, supply each other's projects, as well as to the Beacon as a

We work closely with our colleagues at both our All of our work is informed by an understanding of the Malaysia and China campuses, and with a wide set of economic, legal, social, cultural, historical and ethical international partners in Africa, Latin America, the issues that underpin and shape food systems. More Caribbean and China. We also connect with details of our research and stories from our researchers international organisations such as the UN Food and

> The Future Food Beacon is uniquely positioned to face sustainably and economically



Welcome to the University of Melbourne , Australia



leading

disciplinary breadth spans medicine and health the planet's natural and agro-ecosystems. sciences, engineering and information technology, science, arts and humanities, architecture, business and economics, and education. Some of our world class multi-disciplinary research facilities include the System Garden, the Glasshouse Complex, the Herbarium, and the Advanced Microscopy Unit within the Bio21 Molecular Science and Biotechnology <u>Institute</u>. Over 8000 academic and professional staff support a diverse student body of more than 54,000 undergraduate and graduate students of which 44% are international students representing over 130 countries.

UoM promotes a culture of research excellence and impact of international standing. Our research seeks to address major economic, health and environmental challenges of the present and the future such as us/plant-science

The University of Melbourne quantum computing, vaccine development and climate (UoM) was founded in 1853 and change. Our plant science research is broad, including is recognised for excellence in marine and plant ecology, genetics, plant systematics research, teaching and learning. and taxonomy, evolution and evolutionary biology, plant UoM is ranked as number 1 in cell wall biosynthesis, metabolism and physiology, Australia, and is among the genetic modification, climate change, and environment universities adaptation. We seek to discover how plant systems internationally - number 31 (THE) and number 35 function and to solving the ongoing challenge of (ARWU). Comprised of ten separate faculties, UoM's maintaining food, health, land and water for society and

> To enable us to more competitively tackle these scientific questions, we have developed significant global research partnerships, initiatives, and academic relationships, with some of the most critical being those with institutions and research centres in Germany such as the Max Plank Institute for Plant Physiology and the Forschungszentrum Jülich, alongside partners such as the University of Bonn and RWTH Aachen. These partnerships are driven by cosupervision of talented graduate research students who enrich our scientific community with their passion for modern plant research.

Contacts Michelle Watt & Ute Roessner https://biosciences.unimelb.edu.au/about-



CHIC- progress on chicory for dietary fiber and medicinal terpenes



project, three methods out of four with indicators will be further quantified.

identical genetic outcomes). The genes for selfincompatibility in chicory was found, and solutions to both lines will be created. A physiologically relevant bypass their action are currently tested. Additionally, a model of the inflamed intestinal mucosa was developed current guide RNA has been used to generate chicory for plants which allowed for conceptional different NPBTs. Additionally, off-targets for the common guide RNA multi-ingredient process was investigated. A conceptual have been assessed and tested in first screens.

Inulin and latex of chicory are of interest. This las one in food supplements. contains large amounts of sesquiterpene lactones and bioactivity assays identified one sesquiterpene lactone with anti-inflammatory activity better project outcome and impact and supports and extracts containing antimicrobial activity. Candidate outreach with videos and social media n CHIC. genes, using transcriptome data and the newly sequenced genome, have been identified and are being Art work functionally characterized. The project continues to researchers" and a CHIC game are being developed identify biological activities of interest for these using virtual, augmented reality and ICT technology to sesquiterpene lactones and to increase their production by using New Plant Breeding Technologies (NPBTs).

The partners further evaluate whether CRISPR edited chicory is regulated as GMO or not. Moreover, the

During the first three years of the CHIC impact of different NPBTs on economic and social

varying degree of DNA invasiveness Two business cases for NPBT chicory are advancing have been implemented for the delivery based on dietary fibre and bioactive terpenes. Improved of CRISPR tools to chicory cells (with inulin and terpene fractions are subjected to in vitro bioactivity and safety evaluation and business cases for studying anti-inflammatory effects of chicory terpenes. Chicory extracts were assessed, and a new design yielded the sales price for the terpene mixture to be in line with specialty ingredient prices with an outlet

promising EPSO is engaging the Stakeholder Advisory Group for

educational activities for "early-state educate teenagers about the CHIC concepts.

Contacts: Macarena Sanz, ID Consortium, ES; Dirk Bosch, Wageningen University, NL, (Coordinator)



TOMRES - water and nutrient use efficiency—final meeting in April



comprehensive summary overview of the scientific and project Final Report. TOMRES innovative solutions developed throughout the project to enhance resilience to combined water and nutrient stress in tomato have been validated by on-farm testing and demonstration.

Innovations developed **TOMRES** include by biostimulants, organic fertilizers and Variable Rate Technology (VRT) to help farmers in the transition Schubert, Turin University, IT (Coordinator)

The TOMRES project ("A novel and towards a more sustainable agriculture to reduce integrated approach to increase multiple dependency on pesticides and antimicrobials, excess and combined stress tolerance in plants fertilisation, to increase organic farming, and reverse using tomato as a model") is reaching biodiversity loss. These innovations are going to be its completion in May 2021, and a ready for market-uptake either in short or medium term.

technical conclusions achieved will be published in the EPSO engaged the Stakeholder Group and produced videos and social media activities in TOMRES.

> Visit the TOMRES website to read the newsletters, practice abstracts (in multiple languages) and technical and scientific publications (www.tomres.eu).

Contacts: Alberta Bertin, Novareckon, IT; Andrea



CropBooster-P- Towards the development of a roadmap for the European Commission

In the first year of the CropBooster-P project, scientific throughout Europe to capture the opinion of consumers and technological options were identified to improve sustainability, yield (addressing abiotic stress) and The outcomes and results of these workshops will aid were developed each depicting a different future in which these crops would have to be grown.

In the previous year, these options and scenarios where discussed both with professional stakeholders and with consumers, a.k.a "the man in the street". These discussions were held in a series of on-line workshops with European farmers, breeding industry, consumer organizations and other professional stakeholders. In Contact: addition, similar on-line workshops were

and other interested laymen.

quality of our crop plants. Also, 4 contrasting scenarios the development of a roadmap for the European Commission not only advising on the scientific directions to take to future proof our crops, but also on how to implement these improved crops into society.

More information on these topics and on the CropBooster-P project itself can be found www.cropbooster-p.eu

Klein Lankhorst, Rene Wageningen held University, NL



InnCoCells - Innovative high-value cosmetic products from plants and plant cells (2021-2025), a new EU H2020 project



InnCoCells Consortium brings together partners from 11 European countries, and associations. This industry-driven project will increase innovative biobased goods and markets. the capacity of European biotechnology to meet societal needs. The academic partners have been chosen to EPSO will develop and engage a Stakeholder Group in complement the industrial expertise.

and sustainable plant-based production processes for and social media activities. the commercial exploitation of scientifically validated cosmetic ingredients based on underutilised plant resources. We will optimise these resources for Consortium profitable and sustainable production using cell cultures, aeroponics and greenhouse/field cultivation. We will apply systematic approaches including metabolic engineering tools to optimise growth

scale production and subsequent product extraction/ purification. We will bring at least ten cosmetic Valley Association (France) ingredients to the precommercial stage. InnCoCells EU funding: 7.9 M€ (4 years); the project is expected includes a cascade biorefinery concept in which by- to start May 1st, 2021 products and biowaste are utilised for the extraction of characterised by techno-economic assessment and life VTT, FI cycle analysis to ensure economic feasibility and a reduced environmental footprint. The ingredients and extracts will be evaluated using a unique panel of innovative enzyme-based and cellbased assays to ensure safety and validate claimed activities based on

robust scientific data without animal testing.

We will implement a unique stakeholder engagement strategy, including the assembly of a Stakeholder Group to guide our research program based on the needs of industry, academia, farmers, policymakers and consumers. We will develop bespoke communications strategies for different stakeholders and for public engagement. We will also interact closely with the cosmetics regulatory authorities in Europe. This industry-driven and interdisciplinary project will comprises eight SMEs, one large industrial ultimately increase the strength of the European company, six academic partners and two non-profit bioeconomy by supporting the development of

InnCoCells, including SHG sessions at the annual project meetings. Furthermore, EPSO supports The main goal of the project is to develop innovative outreach with the production of videos on InnCoCells

partners: VTT (Finland), (Luxemburg), VIB (Belgium), EVILVO (Belgium), ENEA (Italy), TUDA (Germany), EPSO (Belgium), MERCK (Germany), Add Essence (Belgium), Arterra Bioscience Plant Advanced Technologies (France), Alternative Plants (Latvia), Evologic technologies The optimised processes will be demonstrated by pilot- (Austria), Ecomaat (Bulgaria), ScandiDerma (Norway), Twyman Research Management (UK) and Cosmetic

further bioactive molecules. The processes will be Contact: Kirsi-Marja Oksman-Caldentey (coordinator),

EPSO General Meeting 1 - 2 July 2021

Contact: Karin Metzlaff



PBE Conference 28 June - 1July 2021 Turin

Contact: Andrea Schubert



FoPD 2021 sporadic online events around 18.05.2021, worlwide

Contact: EPSO



EPSO, the European Plant Science Organisation, is an independent academic international non-profit organisation that represents over 200 leading academic research institutes, universities and departments from 31 countries. Together they represent over 26 000 plant researchers and staff. In addition, EPSO has over 3000 personal members.

The mission of EPSO is to promote plant science and plant scientists, to represent plant scientists in discussions about future plant science programme priorities across Europe, to provide an authoritative source of independent information on plant science (science advice to policy), and to promote training of plant scientists to meet 21st Century challenges in breeding, agriculture, horticulture, forestry, plant ecology and sectors related to plant science.

To achieve its mission, EPSO advises policy and decision makers at European and national level on science policy, as an independent body and as member of the Initiative for Science in Europe (ISE) and the European Technology Platform 'Plants for the Future' (Plant ETP). EPSO supports plant scientists via the EPSO working group meetings, conference, workshops, internships and as information broker via EPSO briefings, newsletter and its website.

EPSO's strategy is defined by the representatives at the General Meeting and further elaborated by the elected Board. Current Board members are Alan Schulman (President – IT), Ulrich Schurr (Vice-President – DE), Isabelle Litrico (FR), Ernst van den Ende (NL), Antonio Leyva (ES), Przemysław Wojtaszek (PL), Josef Gloessl (AT), Angelo Santino (IT), Odd Arne Rognli (NO) and Tim George (UK).

EPSO's strategy is implemented by its members and staff. **EPSO staff** profiles are available <u>here</u>. Contact us to join our activities:

- ♦ Science policy (EPSO, ISE, Plant ETP), Science Support (working groups, projects), members, observers, association relations: **Karin Metzlaff**
- ♦ Website, social media, briefings, newsletter, communications: Alexandra Barnoux
- Office, accounts, projects, meetings, database, personal membership administration: Sofia Ciravegna

Since its creation in 2000, the organisation has become a strong advocate of plant research in Europe and an important voice articulating the contributions and needs of plant scientists at national and European levels and beyond. One of EPSO's priorities is science advice to policy.

Disclaimer

Every effort has been made to present all information accurately. However, no liability is accepted for any inclusions or advice given or for omissions from the publication.

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