

**Welcome to the EC-EPSO Conference on
Crop genetic improvement technologies**
for a sustainable and productive agriculture
addressing food and nutritional security,
climate change and human health



MILANO 2015
FEEDING THE PLANET
ENERGY FOR LIFE



European Union

#expocrops www.epsoweb.org
Milano, 14 July 2015

Official Participant



Crop improvement technologies for a sustainable and productive agriculture addressing food and nutritional security, climate change and human health

S1: Opening

Chair: **Joachim Schiemann**, JKI, DE

Speakers:

- ❖ Welcome:
Karin Metzloff, EPSO, BE & **Francesco Loreto**, CNR, Rome, IT
- ❖ Which challenges can we help to address?
Ulrich Schurr, Research Centre Julich, DE
- ❖ Overview across the plant breeding technologies
Bernd Mueller-Roeber, Potsdam University, DE

EPSO aims to advance plant science in Europe

Independent academic organisation

Mission:

- Promote plant science and support plant scientists
- Discuss future plant science programmes across Europe
- Provide authoritative source of independent information on plant science
- Promote training of plant scientists to meet the 21st century challenges in breeding, agriculture, horticulture, forestry, plant ecology and sectors related to plant science

**CREATING A FUTURE FOR
PLANT RESEARCH IN EUROPE**



EPSO members: Academia

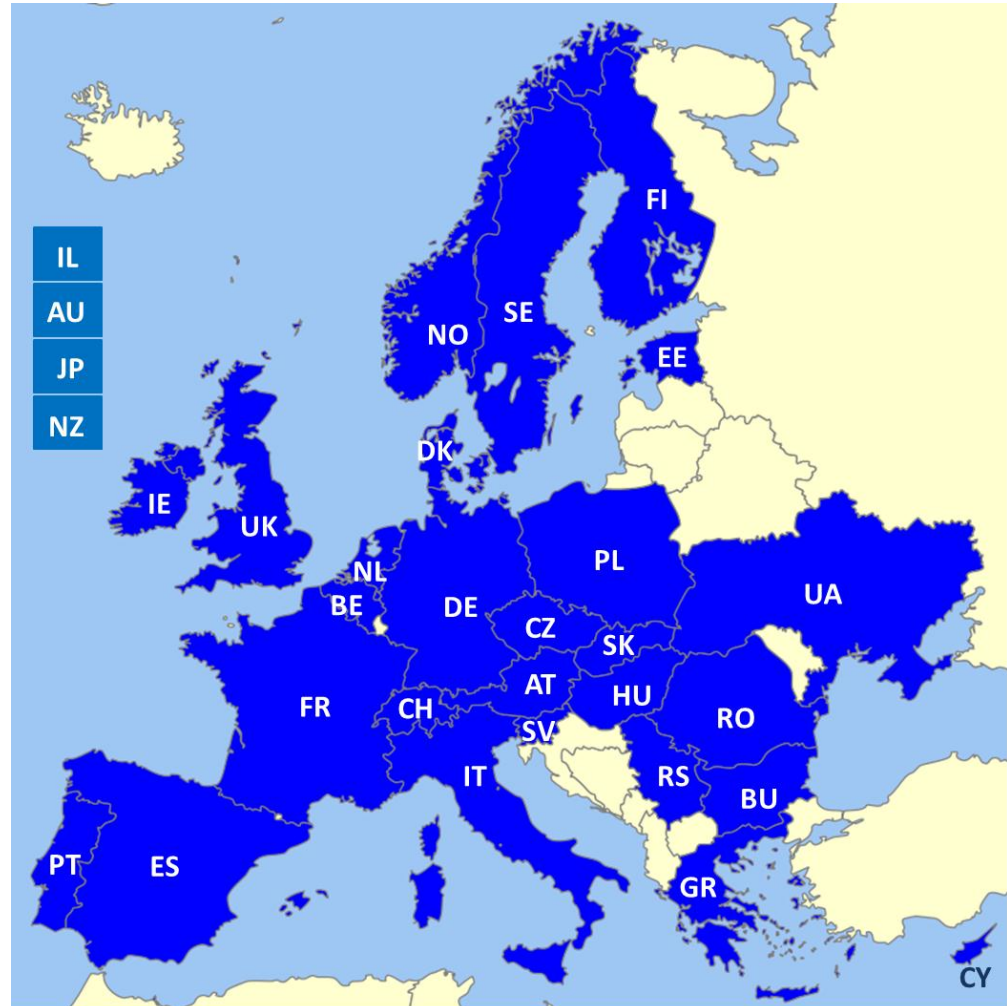
Academic Institutional members:

227 research institutes, universities, research departments **+you**

with over **28 000 researchers and staff** in plant science

from **31 countries** – **28 in Europe** and **3 beyond**

+ over 3.100 Personal members **+you**



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S2: How can we help to address the challenges with various Crop Genetic Improvement Technologies?

Chair: **Aldo Ceriotti**, CNR, IT

Speakers:

- ❖ Omega-3 long chain polyunsaturated fatty acids for sustainable fish farming and healthy human nutrition – produced in Camelina as a new crop; **Johnathan Napier**, Rothamsted Research, UK
- ❖ Introduction of new crops for industrial non-food uses: Rubber-producing dandelion; **Joachim Schiemann**, Julius Kuehn Institute, DE
- ❖ Comparing and combining various technologies towards Phytophthora-resistant potatoes; **Richard Visser**, Wageningen University and Research Centre, NL

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S2: How can we help to address the challenges with various Crop Genetic Improvement Technologies? Cont.

Chair: **Aldo Ceriotti**, CNR, IT

- ❖ Switching annuals to perennials – the feasibility of perennial crops and their environmental advantages; **George Coupland**, MPI Cologne, DE
- ❖ Accessing the vast biodiversity in tomato for health and environmental benefits with introgression lines; **Dani Zamir**, Weizmann Institute, IL
- ❖ Enhancing classical breeding - molecular genetics to identify genes underlying QTL with high agronomic impact ...; **Cristobal Uauy**, JIC, UK
- ❖ Translational research to bridge basic research and agricultural practice – plants resistant to viruses; **Carole Caranta**, INRA, FR
- ❖ Breeding for disease resistance in grapevine: when innovation is needed to preserve tradition; **Michele Morgante**, Univ Udine, IT

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S3: How to increase Europe's competitiveness and ability to address societal challenges?

Chair: **Chiara Tonelli**, Univ of Milano, IT

- ❖ What will farmers need to be globally competitive and address societal challenges? **Thor Kofoed**, CopaCogeca, DK
- ❖ Conservation or innovation – can we match what society wants and breeders need? **Garlich von Essen**, ESA, BE
- ❖ View from an NGO; **Caroline Mahr**, ELO, BE
- ❖ Breeding research in Horizon 2020; **Annette Schneegans**, EC, BE
- ❖ The global dimension of food and nutritional security in the light of climate change; **Wayne Powell**, CSO CGIAR consortium, FR
- ❖ **Ruth Bastow**, Global Plant Council, UK

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S4: Discussion based on social media and audience with the speakers

Chair: **Chiara Tonelli**, University of Milano, IT

- ❖ Submissions via email and twitter will be initiated and brought into the discussion by **Calum MacKichan**, EPSO, BE
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