

CropBooster-P

*Roadmap to future-proof
Europe's plants*



European
Commission

Horizon 2020
European Union funding
for Research & Innovation

Communication & Dissemination Highlights last 12 months

- Website updates
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Newsletter

Stay updated with our CropBooster-P Project and subscribe to our Newsletter.

CropBooster-P will issue newsletters to give concise information about project development and available project outputs. They will be used for progress reports of the project and will have content that is useful and comprehensible for the reader. Another purpose of the newsletters will be to communicate workshop outcome and scientific results.

Fill in your details below and you will receive our Newsletter in your mailbox.

Name

Email

View our previous newsletters here.

Edition 1: December 2019

Edition 2: June 2020



44 "Characterisation of Nitrogen-use efficient genotypes in wheat and barley" [View the full article](#)

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Academic Publications

Weber APM & Bar-Even A (2019) Update: Improving the Efficiency of Photosynthetic Carbon Reactions. *Plant Physiol* 179: 803-812 www.plantphysiol.org/cgi/doi/10.1104/pp.18.01521

F. Colombo, D. Paolo, E. Cominelli, F. Sparvoli, E. Nielsen and R. Piliu (August 2020) MRP Transporters and Low Phytic Acid Mutants in Major Crops: Main Pleiotropic Effects and Future Perspectives. *Frontiers in Plant Science*, volume 11, article 1301.

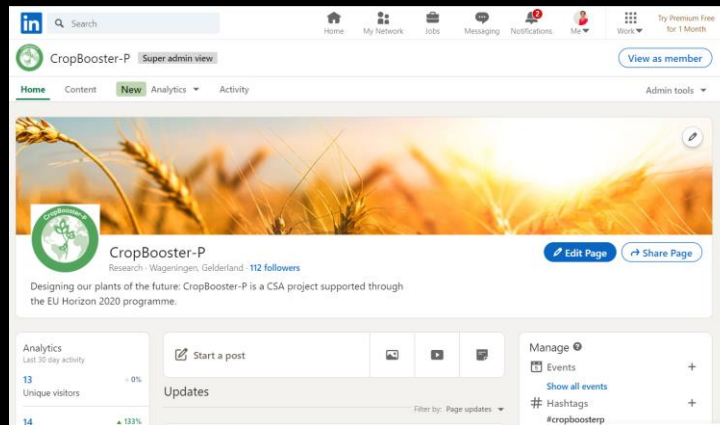
General Publications

Klein Lankhorst, R. (2019) A First Look at the new CropBooster-P Project European Seed 2019/02

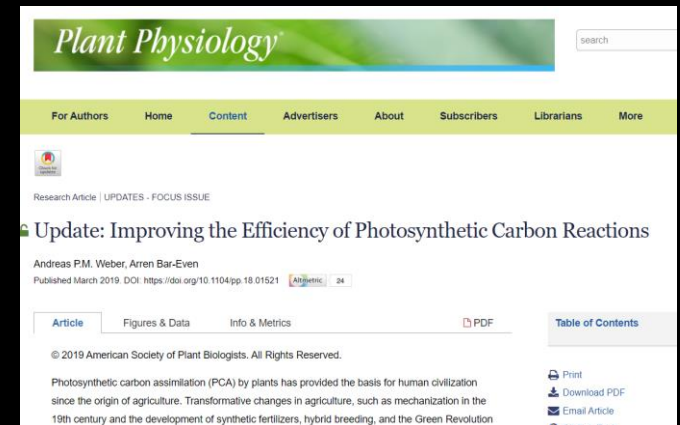


Communication & Dissemination Highlights last 12 months

- 4 new publications
- Increase in LinkedIn members of almost 50%
- 2nd Newsletter issued



LinkedIn profile page for CropBooster-P. The profile shows a banner image of wheat in a field, the organization name 'CropBooster-P', location 'Research · Wageningen, Gelderland', and 112 followers. The bio states: 'Designing our plants of the future: CropBooster-P is a CSA project supported through the EU Horizon 2020 programme.' The analytics section shows 13 unique visitors and 14 page updates.




Plant Physiology research article page. The article title is 'Update: Improving the Efficiency of Photosynthetic Carbon Reactions' by Andreas P.M. Weber and Arren Bar-Even, published March 2019. The article is categorized as 'Research Article | UPDATES - FOCUS ISSUE'. The abstract mentions 'Photosynthetic carbon assimilation (PCA) by plants has provided the basis for human civilization since the origin of agriculture. Transformative changes in agriculture, such as mechanization in the 19th century and the development of synthetic fertilizers, hybrid breeding, and the Green Revolution'.




Communication & Dissemination Highlights last 12 months

- 2nd Newsletter issued

 [Online version](#)

Newsletter CropBooster-P



This is the improved version of the CropBooster-P Newsletter #2.
The links are renewed and easy access to the database is ensured.

[Support CropBooster-P by completing our survey](#)

Increasing global crop productivity will be central in meeting some of the greatest challenges facing human kind: How will we sustainably feed 9.7 billion people by 2050, while realizing the required transition from a fossil economy towards a bio-economy in order to mitigate and possibly reverse the effects of global climate change?


What is CropBooster-P?

CropBooster-P is an EU Horizon 2020 Project and entails Roadmap development to future-proof our crops to meet future challenges. The CropBooster-P Consortium will develop the blueprints for the crop varieties of the future. They will do this by mapping and assessing current and future strategies, methods and technologies for crop improvement.

“*CropBooster-P brings together Europe's most prestigious plant science institutions and stakeholders*”
René Klein Lankhorst - Project Coordinator

The consortium will develop a Roadmap for the introduction of these new crop varieties in current agricultural practice by aligning the development of these crops with the needs, concerns, wishes and expectations of society.

Following a responsible research and innovation (RRI) approach, stakeholders representing all actors of the food system will be involved both in designing the blueprints for the future crops, as well as in the developing of the roadmap to successfully introduce the new crops to the users, and to educate the consumers to new paradigms of sustainable agriculture, based on future proofed crops and more efficient resource use.



Summary Progress Year 1

As we look back on the first year of CropBooster-P we can conclude that a lot of progress has been made and a lot of work has been done.

Introduction

CropBooster-P is organized into 5 operational work packages: WP1, Research Toolbox; WP2, Economic, Social and Environmental Impact; WP3, Societal Needs and Expectations; WP4, International Cooperation; WP5, Strategy Development.

Together, the operational WPs will develop our “Roadmap to future-proof our plants”. In addition, the project knows two supporting work packages: WP6, Management, Office and Stakeholder Involvement, and WP7, Ethical Requirements.

[Read the full summary of year 1](#)

Results Work Package 1

In January 2020 we finished Work Package 1 “Research Toolbox”. The aim of this work package is to assess the current scientific and technical options available to improve crop plants, of course without compromising crop quality.

Database

One of the aims of WP1 was to do literature research and data-mining to get a comprehensive overview of the current state-of-the-art in the field. We developed a system curating the latest available information in scientific literature, compiled by scientific experts in the subtasks of Yield, Nutritional Quality and Sustainability. This has resulted in a compiled spreadsheet listing the state-of-the-art research topics, technologies, genes and traits that could have implications to crop improvement.

[You can view the introduction to the database here.](#)

You can view and download the latest version of the actual databases here. Click to access. (Via Google Drive)


[Annex 3: Nutritional Quality](#)
[Annex 4: Yield & Sustainability](#)

Scenario Building Workshops

In addition, ETP-Plants for the Future took the lead in organizing a “forward looking” workshop. In this workshop we developed future scenario's how the different options to improve crop plants would work out when extrapolating the current state-of-the-art.

[Read all about our scenario's](#)

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Roadmap next 6 months

- Increase updates website & social media
- Newsletters
- Organising 2 webinars about scenario building
 - General public & scientific audience
- General animation video CropBooster-P
- Infographic WP 2 showing scenarios, goals & option cards
- Testimonials stakeholders (video or statements)
- Policy briefs



Cooperation

- Following advice from review board, we expect extra dedication and commitment from all partners, stakeholders and concerning intensifying communication & dissemination.
- I will contact some of you personally and regularly the coming months and request input for news and other content.
- I also expect you to contact me when you have interesting content or ideas.
- Share and like our posts

