



Boosting technology transfer and responsible research and innovation (RRI) in plant sciences

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Dear PlantHUB partner,

PlantHUB is an European Industrial Doctoral Programme (EID) funded by the H2020 PROGRAMME Marie Curie Actions – People, Initial Training Networks (H2020-MSCA-ITN-2016). With this newsletter we would like to give you an overview of the latest achievements. You are most welcome to distribute this newsletter within your network.

Kind regards,

Manuela Dahinden and Romy Kohlmann
 PlantHUB programme office

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 Webversion

Publications

Cuesta-Seijo JA, De Porcellinis AJ, Valente AHR, Striebeck A, Voss C, Marri L, Hansson A, Jansson AM, Dinesen MH, Fangel JU, Harholt J, Popovic M, Thieme M, Hochmuth A, Zeeman SC, Mikkelsen TNR, Ji Rgensen RB, Roitsch TG, Mi Ller BL, Braumann I (2019). **Amylopectin chain length dynamics and activity signatures of key carbon metabolic enzymes highlight early maturation as culprit for yield reduction of barley endosperm starch after heat stress.** *Plant Cell Physiology*: 60 (12), 2692. DOI: 10.1093/pcp/pcz155

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Seydina I. Diop, Oliver Subotic, Alejandro Giraldo-Fonseca, Manuel Waller, Alexander Kirbis, Anna Neubauer, Giacomo Potente, Rachel Murray-Watson, Filip Boskovic, Zoe Bont, Zsafia Hock, Adam C. Payton, Daniel Duijsings, Walter Pirovano, Elena Conti, Ueli Grossniklaus, Stuart F. McDanie and Peter Szovenyi (2019). **A pseudomolecule-scale genome assembly of the liverwort *Marchantia polymorpha*.** *The Plant Journal*. DOI: pdf/10.1111/tpj.14602

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Camilo Chiang, Jorunn E. Olsen, David Basler, Daniel Bånkestad and Günter Hoch (2019). **Latitude and weather influences on sun light quality and the relationship to tree growth.** *Forests*: 10(8), 610. DOI: 10.3390/f10080610

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Deliverables

Network-wide Training Activities

PlantHUB fellows are enrolled in the structured doctoral programme PhD Programme Plant Sciences that is fully accredited by ETH Zurich, University of Zurich and University of Basel. It is finished with a diploma supplement to the doctoral degree awarded by these three institutions. PlantHUB skills training included stakeholder engagement, innovation management, entrepreneurship, IPR and Open Data management as well as applying Responsible Research and Innovation (RRI).

PlantHUB network-wide training activities have been summarized in deliverable D35, published in December 2019 by the PlantHUB programme office.



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PlantHUB Annual Meetings

The PlantHUB consortium met in November 2017, 2018 and 2019. The Annual Meetings were composed of retreats, training and integration workshops. We shared know-how on technologies for phenotyping, genome sequencing and assembly. Additionally, the meetings of the PlantHUB Supervisory Board were coupled.

The outcomes of the PlantHUB Annual Meetings have been summarized in deliverable D33, published in December 2019 by the PlantHUB programme office.

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Company site visit to CLAB

A recent site visit to the Carlsberg Research Laboratory (CLAB) in Copenhagen, Denmark, offered excellent opportunities to meet representatives of Carlsberg A/S. We gained insights into the research of crop improvement and brewing and careers for plant scientists.

PlantHUB company site visits have been summarized in deliverable D36, published in February 2020 by the PlantHUB programme office.



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Outreach

The PlantHUB programme has been presented in the PSC Newsletter ...

- PSC Newsletter No 33, Spring 2018: Article from Camilo Chiang: **Do indoor experiments with plants represent reality?** [Link](#)
- PSC Newsletter No 35, Spring 2019: Article from Florian Cueni: **Real-time stable isotope models can predict the geographical origin of agricultural products.** [Link](#)
- PSC Newsletter No 36, Fall 2019: Article from Seydina Issa Diop: **Chromosome-scale assembly of the *Marchantia polymorpha* genome.** [Link](#)

... and in the newsletters of the PlantHUB industry partners

- DSV Newsletter: Article from Claudio Cropano and Maximilian Vogt: **PlantHUB – Strengthening partnerships between academia and industry** (January 2019). [Link](#)
- DSV Newsletter: Article from Claudio Cropano: **Basically I study how plants have sex** (May 2019, in Dutch). [Link](#)
- BaseClear Company Newsletter: Article from Giacomo Potente: **Looking for answers in *Primula vulgaris*** (September 2018). [Link](#)
- BaseClear Company Newsletter: Article from Seydina Issa Diop: **Talking 'bout an evolution** (September 2018). [Link](#)

Events

Webinar on: How can you make Open Data work in your own research projects?

April 6 and 7, 2020 via Zoom

During this capacity building workshop, students are introduced to the concept of Open Data, Fair Data Principles and Standards, alongside the Open Data Repositories at EU, University of Zurich and ETH Zurich. Moreover, they familiarise with a list of key considerations for putting together an Open Data Strategy for their research results. This includes putting together a data management plan, data ecosystem mapping and consultancy for creating data ecosystems for agricultural programmes, building and working with data sharing agreements, data inventories and data trusts. The course includes theoretical input, workshops, consultancy, group and cases study work for data from agriculture, plant breeding and isotope analysis.

[Save the date!](#)

PSC PhD Symposium 2020: Connectivity – Plant interactions reloaded

December 2, 2020 ETH Zurich, Audimax

This year's PSC symposium will highlight the manifold interactions plants are engaged in. The interactions range from the molecular to the environmental level and are indispensable for development, reproduction, nutrient exploitation and disease resistance against pathogens. Currently, genome sequencing, computational advances, high resolution imaging, new modelling approaches and a whole range of high-throughput technologies bring us new paths to study plant networks. Interactions drive evolution and shape the natural communities. Studying plant connectivity at different levels, in a more contextual way and combining different disciplines is key to move forward in our understanding of the plant systems. This multidisciplinary research can be integrated in an ecological framework where optimal management of nature's ecological functions and biodiversity may improve agricultural system performance, efficiency and farmers' livelihoods. Two PlantHUB fellows are part of the PhD students organizing committee.



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