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Examples of machine learning to advance (plant) biology

Gabriel Krouk

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PLANT Workshop – Provisional program

March 24 - April 4, 2025
Institut Pascal (Université Paris-Saclay)



Topics and chairs

> Theme I - Frontiers in Plant Science fundamental research

Chaired by Anja Krieger-Liszky, Xenie Johnson, and Leandro Quadrana

> Theme II - Feeding the planet: roles for Plant Science and associated environmental and socio-economic challenges

Chaired by Jean Colcombet, Mathilde Fagard and Michael Hodges

> Theme III: "Plants as factories: from chemical compounds to mitigating climate change"

Chaired by Stéphanie Baumberger and Herman Höfte

> Transversal topic - Teaching and training

Chaired by Marianne Delarue, Benoît Alunni, Alia Dellagi, Helke Hillebrand and Mathieu Jossier

> Transversal topic - Innovation

Chaired by Sylvie Dinant and Loïc Rajjou

> Transversal topic - Outreach

Chaired by Pierre Hilson, Isabel Mendoza and Marie-Jeanne Sellier

> Transversal topic - Open Science

Chaired by Denis Bourguet, Maud Fagny and Grégory Mouille

Wednesday April 2

- 9:30AM** Stéphanie Baumberger (IJPB, France) – “Role of plant sciences in the development of a global sustainable bioeconomy”
- 10:15AM** Caroline Gutjahr (MPI Potsdam, Germany) – “Harnessing arbuscular mycorrhiza to enhance plant resilience”
- 11AM** Break
- 11:30AM** Frédéric Bourgaud (ENSAIA, France) – "Natural molecules from plants – a source of inspiration for human health and plant protection in a One Health approach"
- 12:15PM** Gabriel Krouk (IPSiM, France) - "Examples of machine learning to advance (plant) biology"
- 1PM** Lunch (lunch box)
- 2PM** Introduction of the afternoon discussions
- 3PM** Break
- 3:30PM** Discussions on:
- Theme III
- Innovation
- 4:45PM** Break
- 5:15PM** Restitution of the discussions
- 6:15PM** End of the day
- 7:30PM** Dinner at the restaurant « Le Gramophone » (upon registration)