

**Multi-scale, pluridisciplinary research
towards pesticide-free agriculture**
**Mid-term results of the French Priority Research Programme
'Growing and Protecting crops Differently'**

Programme:

Wednesday, November 13, 2024



Learn more

9.00: Welcome coffee

9.30: Introduction

Christian HUYGHE (Scientific Director Agriculture of INRAE – European Research Alliance 'Towards chemical pesticide free agriculture' and French Priority Research Programme 'Growing and Protecting crops Differently')

Yvan LAGADEUC (French Directorate-General for Research and Innovation – Ministry of Higher Education, Research and Innovation)

9.50: Focus on the prospective 'European Pesticide-Free Agriculture in 2050'

Prospective on the path towards zero-pesticide European agriculture: highlighting the needs for research – Olivier MORA (INRAE)

10.05: The plant - microbiota nexus

Plants as a community of microbes – Marc-André SELOSSE (MNHN, France)

Deciphering crop-associated microbiota interaction at the field scale – Fabrice ROUX (CNRS), project DEEP IMPACT

Improving crop establishment by modulating seed microbiota – Marie SIMONIN (INRAE), project SUCSEED

Identifying microbial consortia that interfere with vine pathogens – Corinne VACHER (INRAE), project VITAE

11.15: From gene to plant

Deciphering seed immune responses to boost seed defense – Jérôme VERDIER (INRAE), project SUCSEED

Comparative genomics for the diversification of legume disease resistance QTL in crop – Marie-Laure PILET-NAYEL (INRAE), project SPECIFICS

12.00: Lunch

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13.30: From plant to field

Intra-plot diversification, identification of plant-plant interaction mechanisms – Jean-Benoît MOREL (INRAE), project MOBIDIV

Achieving pesticide use reduction leveraging on functional diversification: intercropping and mixtures for chickpea sustainable cultivation – Stefano CARLESI (Scuola Superiore Sant'Anna, Italy) and Federico LEONI (Scuola Superiore Sant'Anna, Italy)

14.15: Landscape in time and space

Charting the 8 dimensions of plant health surveillance indicators for a sustainable agriculture with minimal pesticide input – Cindy MORRIS (INRAE), project BEYOND

Design and tests of pheromone sensors for the early detection of insect pests in the field – Emmanuel SCORSONE (CEA), project PHEROSENSOR

15.00: Coffee break

15.20: Supply chain and society

Consumer interest in new tomatoes produced without or with few pesticides – Stéphan MARETTE (INRAE), project FAST

Methods and knowledge to support actors of territories to move towards pesticide-free agriculture – Lorène PROST (INRAE) and Muriel VALANTIN-MORISON (INRAE), project BE CREATIVE

Multi-stakeholder engagement through Living Labs: The example of the European Partnership AGROECOLOGY – Yann RAINEAU (INRAE, France)

16.20: Cross-scale approaches

An agroecological approach integrating various levers to stimulate immunity in vegetable and fruit crops – Hélène GAUTIER (INRAE), project CAP ZERO PHYTO

Conducting multidisciplinary approaches to promote agroecological transition in viticulture: the case-study of grapevine resistant varieties – François DELMOTTE (INRAE), Marielle ADRIAN (University of Bourgogne), project VITAE

17.15: Conclusion

Alain GAUME (Agroscope, Switzerland)