



# PlantBioRes 2023

ICPP Satellite Symposium

19-20 August 2023 – Lyon, France

**Biological induced resistance in plants against pathogens and their vectors using beneficial microbes and natural substances : Recent advances and future challenges**

## Scope

Induced immunity and resistance in plants against pathogens and their vectors using beneficial microbes (fungi, bacteria, viruses), natural substances (bacterial metabolites or extracts, plant metabolites or extracts, bio-sourced compounds, etc.), physical stimulation, and allelochemicals, is an ecofriendly biological control strategy that promotes plant health and fits with the current needs for sustainable agriculture. The proposed symposium will focus on the recent advances in agroecological immunity and will target all scientists and actors working or interested by such a concept. Particular attention will be addressed to the recent discoveries regarding cross-protection phenomenon against pathogenic microorganisms threatening plant health and crop production and to the mechanisms underlying plant defense elicitation and priming. The intrinsic and the extrinsic factors affecting the efficacy, the expression, and the sustainability of induced immunity in field conditions will also be considered. The symposium will be organized in several specific sessions (orals, posters, and invited keynotes) dedicated to these topics and related issues. It will be an opportunity to the researchers, agronomists, stakeholders, and industrials concerned by plant induced resistance, and more generally by the agroecological transition in agriculture, to share their recent knowledge and future challenges regarding this topic.

**Abstract Submission :** [www.icpp2023.org/programme/satellite-events](http://www.icpp2023.org/programme/satellite-events)

**Deadline for Submission :** February 15<sup>th</sup> 2023

**Registration Fees** (lunches, gala dinner, and field trip included) :

- For ICPP2023 congress attendees :
  - 190 euros (accompanying attendees : 100 euros\*)
- For non-ICPP2023 congress attendees (PlantBioRes satellite only) :
  - 330 euros (accompanying attendees : 100 euros\*)

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\* Without access to the scientific sessions

## Keywords

Plant induced resistance  
Plant immunity  
Plant defense pathways  
Elicitors  
Priming agents  
Plant pathology  
Pathogen vectors  
Microbiome  
Holobionte  
Virome  
Beneficial microbes  
Natural substances  
Physical stimulation  
Biocontrol  
Cross protection  
Plant bioprotection  
Sustainable agriculture  
Agroecology



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## Sessions

Introductory keynote : Recent discoveries in plant induced immunity

- [Keynote](#) : Christian Lanou – INRAE, France
1. Cross-protection : mild strains as a promising biocontrol tool of plant diseases
    - [Keynote](#) : Heiko Ziebell – Julius Kühn Institute, Germany ; Inge Hanssen – De Ceuster Meststoffen NV, Belgium
  2. Beneficial microbes and microbiome as a natural boosters of plant immunity
    - [Keynote](#) : Monica Höfte – University of Gent, Belgium
  3. Natural and biosourced substances inducing plant resistance
    - [Keynote](#) : Jean-Philippe Combier – CNRS, France
  4. Methodological tools and molecular biomarkers of plant induced resistance
    - [Keynote](#) : Roeland Berendsen – Utrecht University, Netherlands
  5. Environmental factors influencing plant induced immunity
    - [Keynote](#) : Kenichi Tsuda – Uazhong Agricultural University, China
  6. From lab to field : implementation, regulation, societal acceptance, biosecurity, commercialization, and sustainability of agroecological plant immunity
    - [Keynote](#) : Erik Alexandersson – Swedish University of Agricultural Sciences, Sweden

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## Gala dinner

A gala dinner dedicated to the participants will take place on Saturday 19<sup>th</sup> evening in a gastronomic and panoramic restaurant located in the downtown of Lyon, France.

## Field trip

A field trip will be organised outskirts of Lyon on Sunday 20<sup>th</sup> afternoon to visit experimental vineyards assessing resistance inducers for plant bioprotection and will be followed by a banquet to taste wines and cheeses produced locally.



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## Organization and Scientific Committee

BALLINI Elsa (Institut Agro, France)  
BARDIN Marc (INRAE, France)  
BERTHELOT Régis (Arvalis-Institut du végétal, France)  
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VIGNE Emmanuelle (INRAE, France)  
VOLKOFF Nathalie (INRAE, France)  
ZIEBELL Heiko (Julius Kühn-Institute, Germany)

## Organizing networks

French Society for Phytopathology  
RMT Bestim (stimulating plant health in agroecological systems)  
Biocontrol consortium  
Institut Carnot Plant2Pro®  
Ecological Management of BioAggressors (EMBA) network  
Impact of ENvironment on plant immunity and pathogen Virulence (ENVIE) network