

## Conference Fee & Registration

**Conference fee:** 55 EUR

For payment details and policies please refer to the symposium website.

For discounts please write to the convenor  
Falko Feldmann (Feldmann@phytomedizin.org)

**Registration at the symposium website is possible between**

**15 August and 15 November 2021.**

**The conference language will be English.**

**Programme information:**

Further details are given at the symposium website.

**Contact :**

**Feldmann@phytomedizin.org**

The symposium »Plant Protection and Plant Health International« is organised jointly by the *German Society for Plant Protection and Plant Health* (DPG, [www.phytomedizin.org](http://www.phytomedizin.org)), and the *Julius Kühn-Institut* (JKI, [www.julius-kuehn.de](http://www.julius-kuehn.de)).

[www.ppphi.phytomedizin.org](http://www.ppphi.phytomedizin.org)



Foto: Urs Wyss

## Symposium Committee

**Falko Feldmann**

*German Society for Plant Protection and Plant Health (DPG) & Julius Kühn-Institut (JKI), Braunschweig, Germany*

**Johannes Jehle**

*Julius Kühn-Institut (JKI), Darmstadt, Germany*

**Klára Bradáčová, Markus Weinmann**

*University of Hohenheim, Hohenheim, Germany*

**Ewa Matyjaszyk**

*European Plant Protection Organisation (EPPO), Paris, France*

**Martin Kulhánek**

*Czech University of Life Sciences Prague, Czech Rep.*

**Ciprian George Foră**

*Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timișoara, Romania*

**Günter D. Neumann**

*BONARES-Projekt DiControl*

**Manfred Raupp**

*Biofactor Project, Madora, Lörrach, Germany*

**José Pereira Silva Junior**

*Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), Passo Fundo, Brasil*



## Plant Protection and Plant Health International



**Biostimulants, soil improvers,  
bioprotectants: promoters of  
bio-intensification  
in plant production**

**10th International Symposium PPPHI  
jointly organised by JKI and DPG**

**23 November 2021**

**Online-Conference**

**Preliminary Programme**

[www.ppphi.phytomedizin.org](http://www.ppphi.phytomedizin.org)

## The Symposium Topic

Production systems are considered as “sustainable” if input provides stable output with a minimum of unfavourable side effects on the environment. Many current plant production systems are characterized by rapidly grown, highly extractive plant varieties creating imbalanced ecological interrelationships. The respective inputs are mostly of chemical-synthetic kind, including mineral fertilizers, plant protection agents, growth regulators etc., because they can be handled rather efficiently with predictable success and partially replace or complement natural adaptations for nutrient acquisition and stress resilience.

However, our view on modern agriculture is changing: integrated plant production means intensification of using natural components in plant production systems. Due to environmental issues, use of chemical-synthetic components should be minimized. In this context, establishing a more holistic, agro-ecological approach is necessary.

The transformation process from the current conventional to more sustainable, future-oriented production is essential: Which strategies are most promising? Which role play commercial products for a bio-intensification of our production system? Are all necessary components legally authorised for the producers?

Accordingly, this symposium will deal with two major questions:

*How can soil improvers, biostimulants, and bioprotectants help to promote and boost the bio-intensification?*

*Can we find management options to re-establish natural cycles helping us to equilibrate the system during production?*

[www.ppphi.phytomedizin.org](http://www.ppphi.phytomedizin.org)

## Preliminary Programme

### Session 1: Words of Welcome and Introduction

Chair: Johannes Jehle (Julius Kühn-Institut, Germany)

#### 11:00 Words of Welcome

Frank Ordon (Julius Kühn-Institut, Germany)  
Ralph Hückelhoven (German Society for Plant Protection and Plant Health, DPG, Germany)

#### 11:10 Starting bio-intensification processes in plant production

Miguel A. Altieri (University of California, USA)

#### 11:30 Placing products on the market

Patrick du Jardin (University of Liège, Belgium)

### Session 2: Soil Improvers & Biostimulants

Chair: Klára Bradáčová, (University of Hohenheim, Germany)

#### 11:50 Microbiomes for soil improvement

Rodrigo Mendes (Empresa Brasileira de Pesquisa Agropecuária, Brasil)

#### 12:10 Under which conditions are biofertilizers effective ?

Paul Mäder (Research Institute of Organic Agriculture, FiBL, Switzerland)

#### 12:30 Non-microbial biostimulants and soil improvers for bio-intensification

Alessandro Piccolo (University of Naples "Federico II", Italy)

#### 12:50 Break

### Session 3: Bioprotectants

Chair: Ewa Matyjaszczyk, (EPPO, FR)

#### 13:10 Bioprotectants for bio-intensification of plant production

Christina Donat (International Biocontrol Manufacturers Association, IBMA, Austria)

## Preliminary Programme

#### 13:30 Are botanicals sustainable fungicides?

Ilaria Pertot (University of Trento/FEM, S. Michele all'Adige, Italy)

#### 13:50 Boosting beneficial arthropods for ecological intensification of crop management

Annette Herz (Julius Kühn-Institut, Germany)

#### 14:10 Break

### Session 4: Bio-intensification in cropping systems

Chair: Günter D. Neumann (University of Hohenheim, Germany)

#### 14:30 Bio-intensification by microbial use in industrial agriculture of Brasil

José Pereira da Silva Junior (Empresa Brasileira de Pesquisa Agropecuária, Brasil)

#### 14:50 Bio-intensification in Hungarian horticulture

Borbála Biró (Szent Istvan University, Hungary)

#### 15:10 Ecosystem services in permaculture systems

Sarah Hirschfeld (University of Guelph, Canada)

#### 15:30 Break

### Session 5: Biointensification and Regulatory affairs of commercial components

Chair: Johannes Jehle & Falko Feldmann (Julius Kühn-Institut, Germany)

#### 15:50 Open discussion on the symposium topic

#### 16:40 Summary of the symposium & conclusions

Falko Feldmann (DPG/JKI, DE)

#### 17:00 End of Symposium