



Innovative biological techniques for IPM and their regulatory implications

9th International Symposium on Plant Protection and Plant Health in Europe



*We welcome
67 delegates
from 6 countries*

Symposium Committee

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(DPG) Braunschweig, DE*

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Brigitte Kranz

*International Biocontrol Manufacturers Association,
Stuttgart, DE/AT*

**We thank the
members of the
Symposium
Committee for their
support!**

Stuttgart, DE/AT

International Biocontrol Manufacturers Association

Brigitte Kranz

Biofactor Project, Madora, Lörrach, DE

Manfred Raupp

19.11.2019

10:30 Words of Welcome and Introduction

Falko Feldmann (DPG/JKI)

11:15 What are we speaking about?

Falko Feldmann (DPG/JKI, DE)

Session 1: Innovative biological techniques for IPM and their regulatory implications

Chair: Ewa Matyjaszyk (EPPO, FR)

11:30 Variability of effectiveness of microbial strains

Christina Donat, Bio-Ferm, Getzersdorf, AT

12:15 Specificity of insecticidal Baculovirus strains

Johannes Jehle, JKI Darmstadt, DE

13:00 Lunch

14:00 Product design with the RNAi methodology

Karl-Heinz Kogel, University of Gießen, DE

14:45 Managing soil microbioms for plant health

Komelia Smalla (JKI, DE)

15:30 Break with Posterpresentation

Session 2: Authorisation of biorationals - safe and sustainable?

Chair: Falko Feldmann (DPG, DE)

16:15 Products of bacterial agents in combination with soil conditioners and arbuscular mycorrhizal fungi: how to register?

Markus Weinmann, University of Hohenheim, DE

17:00 Placing biorationale products onto the markets—real world experiences

Dave George, University of Newcastle, UK

17:45 The development of the EPPO standard on Low risk products

Claudia Jilesen (EPPO, NL)

18:30 Working dinner at JKI

20.11.2019

Session 3: Compatibility of biorationals with other IPM components

Chair: Johannes Jehle (JKI, DE)

08:30 Assessment of side-effects of pesticides on non-target organisms (other than bees) and its transfer into practice

Peggy Marx & Marlen Heinz (JKI, DE)

09:15 Declaration of IPM compatibility on product labels

Elias Böckmann (JKI, DE)

10:00 Break

Session 5: Regulatory framework for biorationals

Chair: Brigitte Kranz (IBMA, DE)

10:30 Regulatory aspects of the biopesticide approval process

Sabrina Feustel (BfR, Berlin, DE)

11:15 Experience with biological products under Reg. (EC) 1107/2009

Rüdiger Hauschild, (APIS, DE)

12:00 A new bio-regulation—an escape out of a dilemma?

David Gony & Jennifer Lewis (IBMA, Global)

Ulf Heilig (IBMA, Global)

12:45 Summary of the symposium & Conclusion

Falko Feldmann (DPG, DE)

13:00 End of Symposium

What are we talking about?

Integrated Plant Management (IPM) according to
Directive 2009/128/EC
REG. (EC) No 889/2008 on organic production and labelling

Source: JKI



Chem.-synth. Pesticides

Pesticides with higher risk to health and environment & low-risk a.s ...



„Biorationals“ (= „Bioprotectants“?)

Biological Plant Protection with low negative impact to health and environment, including low risk a.s., i.e. with microbials, botanicals & basic substances, biostimulants



„Macrobials“

Predators, parasitoides, nematodes...



Physical & Mechanical Control

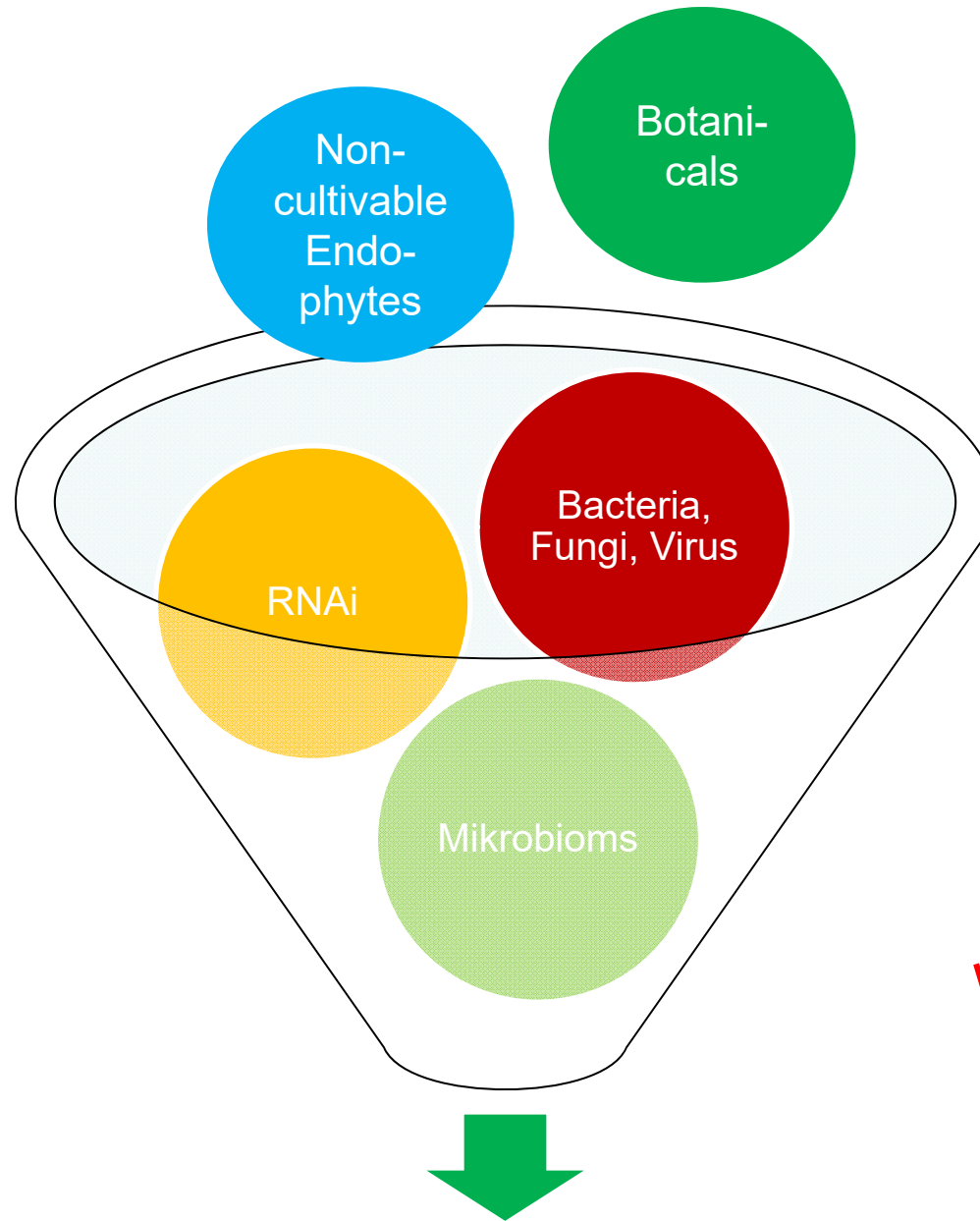
Pruning, weeding, mulching, traps, barriers, flaming...



Cultural Control

Site & plant selection, fertilization, sanitation, rotation...

Do you agree?



Innovations

Plant Protection Product or Biostimulant

Our main regulations:

- Regulation (EC) No **1107/2009** concerning the placing of plant protection products on the market
 - REGULATION (EU) No **283/2013** setting out the data requirements for active substances
 - REGULATION (EU) No **284/2013** setting out the data requirements for plant protection products
- Regulation (EU) **2019/1009** of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003
 - with PFC 6(A): MICROBIAL PLANT BIOSTIMULANT &
 - with CMC 7: MICRO-ORGANISMS

Main goals of the symposium:

- Reflect specific characteristics of microorganisms and the RNAi technology, on the background of 1107/2009
- Discuss the question of strain-registration on the background of newest microbiome research and both regulations
- Question the sense of the CMC 7-list (2019/1009)
- Report and discuss experiences on biorational use in IPM practice
- Discuss conflicts of biorational registration with the existing regulations
- **Something missing? If not...**

Let's go!





„Biorationals“

- Natural Low Risk Substances (incl. Microorganisms)
- Basic substances

- Biostimulants, especially microorganisms

- Pheromone & Kairomone (Semiochemicals)

- Soil improvers
- Organic fertilizers
- Mineral fertilizers

Efficacy of ‚Biorationals‘



‚Biorationals‘

- Natural Low Risk Substances (incl. Microorganisms)
- Basic substances
- Biostimulants

Efficacy in assessment

- **Moderate – good (variable)**
- **Not tested**
- **Tested in future?**

Sufficient information provided to customer/user?

Are there hidden risks?

We hope that the symposium will answer the following questions:



- Which advantages do biorationals have for organic and integrated plant production systems?
- How effective are biorationals and how should we declare the efficacy for the user?
- Are there risks overseen during the assessment of microbial products?
- Is the regulatory framework sufficiently organised for biorationals?
- How could we promote biorational use and which impediments exist for intensifying the use?