Efficacy and risks of “biorationals” in organic and integrated pest management - acceptable?

8th International Symposium on Plant Protection and Plant Health in Europe

We welcome 72 delegates from 14 countries
What are we talking about?
Conventional Pesticides
Pesticides with higher risk to health and environment…

Biorationals
Biological Pesticides with low negative impact to health and environment, such as botanicles, microbiials, basic substances…

Biological Control
Predators, parasitoides, nematodes, viruses, fungi, endophytes…

Physical & Mechanical Control
Pruning, weeding, mulching, traps, barriers, flaming…

Cultural Control
Site & plant selection, fertilization, sanitation, rotation…
Statement:

„Biological or biological – different concepts with impact on practical use“

Markus Weinmann, University of Hohenheim
'Biorationals'

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

• Pheromone & Kairomone (Semiochemicals)

• Biostimulants, especially microorganisms

• Soil improvers
• Organic fertilizers
• Mineral fertilizers
Efficacy of 'Biorational'

'Biorational'
- 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?
Let’s go!