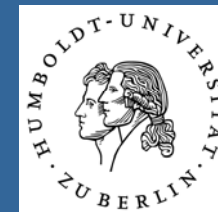




The "principal mode of action" of micro-organisms as agents between fertilization and plant protection

Berlin, 12.-13. March 2015

7th international symposium jointly organised by:



Words of Welcome

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Local Organisers

Prof. Dr. Carmen Büttner & Dr. Martina Bandte – HU and Team

Minutes: Dr. Philipp Roedel, INOQ, Solkau



7th Symposium on Plant Protection and Plant Health in Europe

Science meets

Regulation/Administration meets

Producer/Industry

Microbial Products

Plant Protection Products

(incl. Resistance Inducers)

EU Reg. 1107/2009

Plant Strengtheners (Bio-Stimulants)

National laws

to be regulated?

Fertilizers

(incl. Soil Improvers, Plant Growth Improvers)

EU Reg. 2003/2003
to be repealed and substituted
in 2017?

Article 2 (Reg. 1107/2009)

Scope

1. This Regulation shall apply to products, ... intended for one of the following uses:

(a) protecting plants or plant products against all **harmful organisms** or preventing the action of such organisms, ...;

(b) influencing the **life processes** of plants, such as substances influencing their growth, **other than as a nutrient**;

(c) **preserving plant products**, ...;

(d) **destroying undesired plants** or parts of plants, ...;

(e) checking or preventing **undesired growth of plants**,

2. This Regulation shall apply to substances, including micro-organisms having **general or specific action against harmful organisms or on plants, parts of plants or plant products**, referred to as 'active substances'.

Arcadia International®, recognized as experts by several European Commission Directorate-Generals for agriculture and food related activities, proposed the following

Definition of a bio-stimulant

“A plant biostimulant is any substance or microorganism, in the form in which it is supplied to the user, applied to plants, seeds or the root environment with the intention to stimulate *natural processes* of plants benefiting nutrient use efficiency *and/or tolerance to abiotic stress*, regardless of its nutrients content, or any combination of such substances and/or microorganisms intended for this use.”

Conflicts:

- It is an open question whether Reg. 1107/2009 is restricted to biotic stress; recently it seems to cover this aspect of biostimulants
- the mode of action „acting like/not like a nutrient“ is recently discussed as decisive for the integration of biostimulants in the new fertilizer regulation

Questions to be discussed by the symposium:

- How can principal modes of action of microorganisms be described being comparable with or clearly different from nutrient actions?
- Can products containing consortia of microorganisms be characterized by a single principal mode of action?
- How should the phyto-micro-biom be treated?
- Are microbial products stable with respect to their effects and efficacy?
- What should be regulated, what not?
- ...

Let's go!