



Application techniques of endophytes

Workshop 14-15 July 2014

University of Applied Sciences Bielefeld

COST Action FA1103:

Endophytes in Biotechnology and Agriculture

WG3 Development of new microbial inocula

www.endophytes.eu

Call for abstracts

Local organizer: Anant Patel, WG Fermentation and Formulation of Biologicals and Chemicals, University of Applied Sciences, Germany (anant.patel@fh-bielefeld.de)

Action Chair: Carolin Schneider, Institut für Pflanzenkultur e.K. Germany (schneider@pflanzenkultur.de)

Meeting venue: University of Applied Sciences Bielefeld
Wilhelm-Bertelsmann-Straße 10
33602 Bielefeld, Germany

Invitation:

Endophytic microorganisms can have various beneficial effects for example as plant growth and defense promoters by synthesizing phytohormones, producing bio-surfactants, fixing atmospheric nitrogen and CO₂ or control plant diseases. However, the application of endophytes by seed coatings, sprays or granules and capsules still poses a range of scientific and technical challenges: It should increase establishment of the microorganism in soil and near or on the plant, support penetration and colonization of the host and reduce dosage and cost of application. Application techniques are closely linked to cultivation and formulation of the biologicals that ensure high shelf life and to an in-depth understanding of the physicochemical and biological environment such as phyllosphere, soil, seed surface and rhizosphere.

In the case of mycorrhiza, advances have been made in the elucidation of the molecular plant-microbe interaction that need to be converted into novel formulation and application techniques. In other cases such as endophytic entomopathogenic fungi, the mode of penetration and colonization is not even known. Basic research studies still use only simple water-spores mixes instead of more sophisticated and effective application techniques.

This workshop will explore into application techniques fine tuned to the delivery of endophytes to plants and will bring together scientists, technologists and representatives from companies in different parts of the industry. The workshop will be held, participants will present highlights of their current or recent work in the field of application of endophytes in oral presentations (15 minutes).

We look forward to welcome you in Bielefeld, Germany.

Sincerely,

Anant Patel and Carolin Schneider

Scientific programme:

The meeting will start at July, 14th 2014 at 13:30 with an opening session and reception, and will end at July, 15th 2014 at noon, oral presentations, visiting the laboratories and workspaces and demonstration of formulation techniques will be given. Ample time will be allotted for discussion.

Participants:

The Management Committee of the Action decided to have max. 16 presentations plus max. 2 presentations of companies. Travel costs, meals and accommodation of all accepted presentations are eligible for cost reimbursement.

The COST Action FA1103 gives strong support to **Early Stage Researchers** (PhD + max. 8 years), abstracts of young colleagues are expressly called.

Getting to Bielefeld:

The University of Applied Sciences is distributed all over the city of Bielefeld. Our department is localized at the Wilhelm-Bertelsmann-Straße 10. Attached to this mail you will find a rough map of Bielefeld on which our department is localized at point 6 on the attached map and a figure of the building with the event location.

When you travel by car: Leave the "Autobahn" A2 at exit 27 "Bielefeld Zentrum" in the direction of Detmold/Lage/Leopoldshöhe on the B66. Just follow the B66 (named first "Lagesche Straße" then "Detmolder Straße") until you turn right into the "Teutoburger Straße" (It runs parallel to the "August-Bebel- Straße". Follow the "Teutoburger Straße" up to its end and turn right on the "Heeper Str.". At the next possibility turn left into the "Hermann-Delius-Straße" which will turn into the "Wilhelm-Bertelsmann Straße".

When you travel by train: Leave the train at the central station and take the subway to "Jahnplatz" (All railway lines can be used). Then take the bus No. 25 direction Bi-Heepen, Baumheide or No. 26 direction Bi-Heepen, Alter Postweg. Leave the bus at station FH/Wilhelm-Bertelsmann.-Str. For detailed information's visit <http://www.mobiel.de/startseite/>.

When you travel by plane: Bielefeld is located 40 min from airport Paderborn Lippstadt, 60 min. from the Hannover Airport and 1:45 min from Düsseldorf airport.

Call for abstracts:

- Please get your abstract (1 page) proof read for English
- If you do not submit your abstract by the deadline you cannot be included in the program and will not be able to reimburse your costs afterwards.
- The scientific committee will inform you as soon as possible after the deadline if your abstract is accepted for oral or poster presentation and thus for cost reimbursement.

Send to anant.patel@fh-bielefeld.de

Deadline Friday, June 6th, 2014

Style sheet for the abstracts:

TITLE ARIAL CAPITALS 12 PT BOLD

Presenting author¹ and Author² Arial 12 pt bold

¹Affiliation, Country, email Arial 10 pt italic

²Affiliation, Country, email Arial 10 pt italic

Text Arial 11 pt

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3-5 recent references from own group