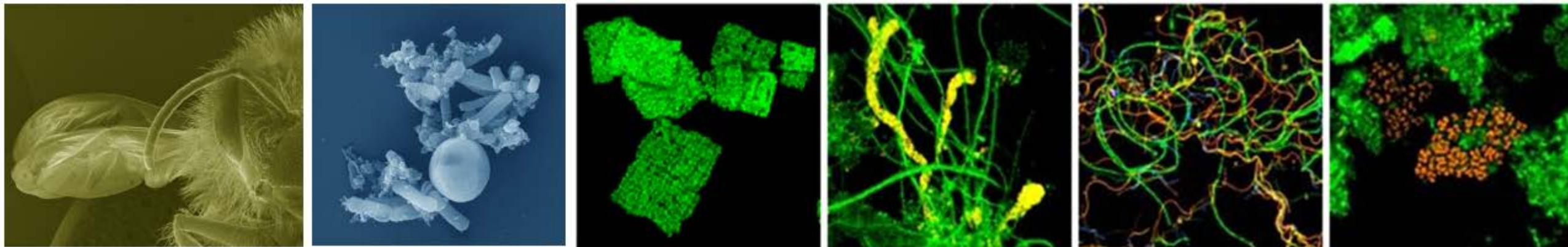


# **DIMPA: Detection and Identification of Microorganisms in Plants and Arthropods**

COST Training School 8-10 October 2018

**COST FA1405 "Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production"**



Honey bee and gut bacteria in the bee (EM) and FISH images of other micro-organisms *by Natuschka Lee*

The training school offers introduction to techniques related to microorganism identification in plants and insects relevant to plants. Insight into isolation and inoculation methods, FISH and other *in situ* detections, and the possibility to discuss and plan strategies for analyses of metagenomics data. We encourage you to bring your own sample(s) to work with during the labs.

**Planning group and teachers:** Benedicte Albrectsen (UmU, coordinator), Judith Felten Swedish University of Agriculture Sciences (SLU, Umeå), Nathaniel Street (UmU), and Natuschka Lee, Umeå University (UmU).

**Confirmed invited speakers:** Astrid Taylor (SLU, Uppsala), Björn Lindahl (SLU, Uppsala), Philipp Engel (University of Lausanne, CH), Sabine Ravnskov (Århus University, DK), Sandra Jämtgård (SLU, Umeå).

**Application** to participate in the training school should include a motivation and a list of main interests within the topic. The application of no more than one page, should be emailed to [benedicte.albrechtsen@umu.se](mailto:benedicte.albrechtsen@umu.se) no later than August 25 2018. Later applicants can not be guaranteed consideration if more than ten applicants apply. Financial support (€500) is offered for each of ten participants.



The ectomycorrhizal fungus *Laccaria bicolor* in an *in vitro* sandwich culture system by Judith Felten.

# Logistics

**Time: 8-10 Oct**

**Capacity: 10 Participants**

**Venue: Umeå University Campus**

**Hotel for three nights: 86-270 €/person  
depending on place**



Time	08-Oct	Place	Time	09-Oct	Place	Time	10-Oct	Place
9-11	<b>Biological materials (BA/JF)</b>	<b>KBF301</b>	9-	Labs	<b>KBF301</b>	9-11	<b>Integrations</b> Research seminars by invited speakers	<b>KBF301</b>
13-15	<b>Single cells and tissues (JF/NL)</b>	<b>KBF301</b>			<b>labs</b>	13-16	Discussion/WS	<b>KBF301</b>
15-17	<b>Gene and genome (NS/NL)</b>	<b>KBF301</b>				16-17	Insights and way ahead (all + invited)	<b>KBF301</b>
17-18	UPSC tour							
19-	Poster session (5 min presentations by participants) dinner/pub	<b>KBF301</b> <b>fika room</b>	19-	Lab work presentations dinner/pub	<b>Glasburen</b>			



# Schedule, draft

