

2nd COST IPLANTA TRAINING SCHOOL CA15223

‘RNAi applications; from lab to field’

Rothamsted Research

Harpenden, UK

27th - 28th Sept 2018

The aim of the 2nd iPlanta Training School is to provide training and best-practice in the practical aspects of conducting field-based RNAi research for improved crops. It will consider case-studies from experienced researchers for insect- fungal- and viral-resistance applications of RNAi. It will also describe the current EU GMO regulatory landscape and provide training in the preparation of applications for Part B, non-commercial GM field trials. It will give trainees the opportunity to see cutting-edge contained use glasshouses, growth rooms and the Rothamsted field trial site and to hear from farm and glasshouse managers who have experience in dealing with contained use and field-based GM experimentation. High qualified trainers from iPLANTA network will be invited.

All scientists/researchers/experts of the biotechnology area are eligible to submit application for the iPLANTA grants, in the selection a priority will be given to Early Career Investigators (ECIs) and to the qualification of the curriculum. Grant applications should be made using the appropriate application forms in the Training School area (at : <http://iplanta.univpm.it/node/6>) before 31 July 2018 . Unselected trainees can attend the school at their own expense.

Wed 26th Sept

Optional participation in iPlanta WG2 meeting all day. However, you must still register to attend the WG2 meeting.

Thursday 27th Sept 09.00 -17.30

09.00 – 09.15 Welcome and introductions Huw Jones

09.15 – 09.45 RNAi its use in research and plant breeding (title to be confirmed)
Guy Smagghe (Gent University)

Case studies of current RNAi research applications

09.45 – 10.15 RNAi strategies for inducing pest and disease resistance in fruit crops. Bruno Mezzetti (Università Politecnica delle Marche, Italy)

10.15 – 10.45 RNAi/entomo-pathogenic fungi & bee biosafety (title to be confirmed) Martin Edwards (Newcastle University, UK)

10.45 – 11.15 Coffee

11.15 – 11.45 VIGS/HIGS in wheat (title to be confirmed). Vinay Panwar, Kostya Kanyuka & Kim Hammond-Kosack (Rothamsted Research, UK)

11.45 – 12.15 RNAi for insect control (title to be confirmed) Olivier Christiaens (Ghent University University, Belgium)

12.15 – 12.45 Omega-3 LCPUFA fish oils in Camelina (title to be confirmed).
Johnathan Napier (Rothamsted Research, UK)

12.45 – 13.45 Lunch

Guided tours of Labs and GM field trial site.

14.00 – 15.00 tour of tissue culture and molecular biology labs. Caroline Sparks (Rothamsted Research, UK)

15.00 – 16.00 tour of GM glasshouse and CE facilities Fiona Gilzean (Rothamsted Research, UK)

16.00 – 17.30 tour of GM field site, Stephen Goward. (Farm Manager Rothamsted Research, UK)

Friday 28th Sept. 09.00 – 12.30

Challenges of translating research from lab to field

- | | |
|---------------|---|
| 09.00 – 09.30 | Managing GM Camelina field trials in UK and USA Lihua Han (Rothamsted Research, UK) |
| 09.30 – 10.00 | Managing the media and comms Matina Tsalavouta (University of Liverpool, UK) |
| 10.00 – 10.30 | GM field trials: an EU perspective? (Hilde-Gunn Opsahl Sortebug (Norwegian University of Life Sciences, Norway) |
| 10.30 – 11.00 | Coffee. |
| 11.00 – 11.30 | Environmental risk assessment for experimental releases, Jeremy Sweet Independent consultant) |
| 11.30 – 12.00 | Title and speaker TBC |
| 12.00 – 12.30 | Distinctions between 2001/18 Part B and C applications Huw Jones (Aberystwyth University, UK) |
| 12.30 | Close |