

London Area Molecular Plant Sciences Symposium – Programme

20 April 2004, Royal Holloway, University of London

Dedicated to the memory of Dr Gary Warren

Sponsored by Fisher Scientific, Whatman, Ambion Europe, VWR, Berthold Technologies, Qiagen

9.15 am Registration desk opens, tea, coffee - Bourne Laboratory foyer

9.50 am Opening comments - John Bowyer, Bourne Lecture Theatre 1

Photosynthesis and physiology

Chair - John Bowyer

10.00 am So Iwata (IC) Structure of Photosystem II and molecular architecture of the oxygen-evolving centre

10.30 am Nathalie Pourtau (UCL) Arabidopsis mutants with altered sugar-related senescence

10.45 am Baichen Zhang (IC Wye) Proteomics and metabolomics lead to a major revision of models for cucurbit phloem physiology

11.00 am Tea/coffee - Bourne foyer

Guest lecture

11.20 am Peter Shewry (Rothamsted) Plant science research at Rothamsted - structure and properties of plant storage proteins

Plant Interactions with the biotic and abiotic environment Chair - Murray Grant

12.05 pm John Mansfield (IC Wye) The genome battle - how bacteria overcome innate immunity in plants

12.35 pm Andy Plume (IC Wye) Death of the dogma

12.50 pm Kostya Kanyuka (Rothamsted) Resistance to soil-borne viruses in wheat and barley

1.05 pm Lunch - Crosslands Suite, Founders Building

- 2.00 pm **Sponsors' technology talks** - Bourne Lecture Theatre 1
- Berthold – Bob Johnson: A flying visit with the NightOwl
- Whatman - Steve Dey: FTA paper for extraction and archiving of DNA
- 2.30 pm **LAMPS – meetings and what else?** John Bowyer

Plant Interactions with the biotic and abiotic environment (cont.) Chair - Laszlo Bogre

- 2.50 pm Anne Helfer (RHUL) MAPK signalling as a negative regulator of pathogen responses
- 3.05 pm Glenn Thorlby (RHUL) Molecular analysis of freezing-tolerance genes in Arabidopsis
- 3.25 pm Jonathan Howarth (Rothamsted) Mineral nutrition genomics
- 3.40 pm Tea /coffee - Bourne foyer

Molecular approaches to plant evolutionary biology

Chair - Enrique Lopez-Juez

- 4.10 pm Michael Frohlich (NHM) Advice for plant evo-devo research and the importance of non-model organisms
- 4.40 pm Yoong Lim (QMUL) Telomere evolution in monocots

Plant biotechnology and plant products

Chair - Enrique Lopez-Juez

- 5.00 pm Julian Ma (SGHMS) Understanding and manipulating the plant endomembrane system for the expression of pharmaceuticals
- 5.30 pm Peter Houghton (KCL) Novel cholinesterase inhibitors from traditional medicines
- 5.45 pm Daniel Waterman (RHUL) Metabolomic analysis of GM and non-GM tomatoes
- 6.00 pm Carol Wagstaff (RHUL) Genomic changes during floral senescence – understanding and predicting the basis of quality and longevity in cut flowers
- 6.15 pm Wine reception – Picture Gallery, Founders Building