

PLANT BIOLOGY NEWSLETTER

University of Minnesota

Volume IX Number 21

Department of Plant Biology, 250 Biological Sciences Center

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August 10, 2004

1. Phyto grad and Plant Biological Sciences Graduate Program
2. Teaching and Outreach
3. Seminars and Symposia

1. Phyto grad and Plant Biological Sciences Graduate Program

Grant

Minnesota-Norway Fulbright Program – 2005-2006

Norwegian University of Science and Technology – Trondheim, Norway

Applicants must be U.S. citizens currently enrolled in any field in the University of Minnesota Graduate School. Knowledge of Norwegian is not necessary.

Selection Criteria: A record of outstanding academic achievement, and a clearly defined research/study proposal.

Application Procedure: Applicants are encouraged to review the NTNU information at <http://www.ntnu.no/indexe.html>. Campus interviews are conducted in late September or early October. Further information can be obtained from the Graduate Students' posting board and application materials are available at the Graduate School Fellowship Office, 314 Johnston Hall.

Campus Deadline: September 10, 2004

2. Teaching and Outreach

MAY SESSION - MAY 24 – JUNE 11, 2004

PBIO 5960: SPECIAL TOPICS IN PLANT BIOLOGY

MOLECULAR PLANT-MICROBE INTERACTIONS

Sponsored by the Plant Molecular Genetics Institute

SEMINARS

3:30 p.m., 105 Cargill Bldg., SPC

DISCUSSIONS

239 Gortner Lab, 10:00 a.m., SPC

Seminar, Thursday, June 3

Dr. Vicki Vance, Professor of Biological Sciences, University of South Carolina/Columbia

“Viral Suppression of RNA Silencing: The Role of Small Regulatory RNAs”

Discussion, Friday, June 4

Mallory A.C., Reinhart B.J., Bartel D., Vance V.B., and L.H. Bowman. 2002.

A viral suppressor of RNA silencing differentially regulates the accumulation of short interfering RNAs and micro-RNAs in tobacco. *Plant Biology*. Sept. 12, 2002

Mallory A.C., Milotshwa S., Bowman L.H., and V.B. Vance. 2003

The capacity of transgenic tobacco to send a systemic RNA silencing signal depends on the nature of the inducing transgene Locus. *Plant Journal*. (2003) 35:82-92.

Seminar Monday, June 7

Dr. Stanton Gelvin, Professor of Biological Sciences, Purdue University

“Plant Genes Involved in Agrobacterium-Mediated Plant Transformation”

Discussion, Tuesday, June 8

Mechanism of Agrobacterium T-DNA Integration into the Plant Genome

The following two papers will be discussed:

Chilton, M.-D., and Que, Q. 2003. **Targeted integration of T-DNA into the tobacco genome at double-stranded breaks: New insights on the mechanism of T-DNA integration.** *Plant Physiol*. 133: 956-965.

Tzfira, T., Frankman, L.R., Vaidya, M., and Citovsky, V. 2003. **Site-specific integration of Agrobacterium tumefaciens T-DNA via double-stranded intermediates.** *Plant Physiol*. 133: 1011-1023.

Supplementary reading:

Gelvin, S.B. 2003. **Agrobacterium and plant transformation: The biology behind the "gene-jockeying" tool.** *Microbiol. Mol. Biol. Rev.* 67: 16-37.

Seminar, Thursday, June 10

Dr. Stephen Winans, Professor of Microbiology, Cornell University

“Cell-cell Communication in Bacteria”

Discussion, Friday, June 11

Eric Cascales and Peter J. Christie. **Definition of a bacterium type IV secretion system pathway for a DNA substrate.** (*Science*, In press)

3. Seminars and Symposia

PLANT BIOLOGICAL SCIENCES COLLOQUIUM SERIES

Tuesdays, 3:30 PM, 335 Borlaug Hall, St. Paul Campus

(*Unless Noted Otherwise)

Defense Seminar

Wednesday, June 2, 2004, 3:00 p.m., 257 Biological Sciences Center, St. Paul Campus

Steve Berman, Graduate Assistant, Dept. of Plant Biology

“The Emerging Role of Signal Transduction in the Regulation of Chlamydomonas Flagella”

**Editors: Kate VandenBosch, Dept. Head; Anne Caton, Admin. Director;
Odette Holter, Principal Administrative Specialist**

This publication is available in hard copy or email by request. Please contact Odette Holter via email (oholter@biosci.cbs.umn.edu) or call 625-1234 if you would like to receive a copy.

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