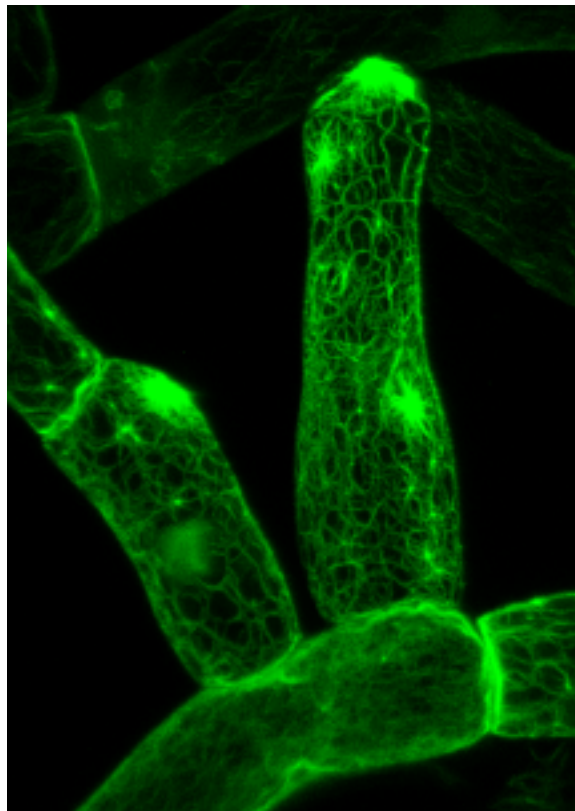


# **9th SWISS PLANT CELL AND MOLECULAR BIOLOGY CONFERENCE**



**March 8-10, 2000, Eurotel, Villars s/Ollon**



**PROGRAMME**

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**Session I Plant Genomics and Gene Regulation**Wednesday evening from 8pm to 10 pm. Chairman: **Edward E. Farmer**

- A. Binder** (Basel) Genomics in Agriculture Research
- I. Kovalchuk** (Basel) Genome wide variation of the somatic mutation rate in plants.
- J. Stuurman** (Bern) Functional genomics in solanaceae: forward and reverse genetics in *Petunia* using *dTph1* transposable elements.
- F. Meins, Jr.** (Basel) The Maintenance and Propagation of Posttranscriptional Gene Silencing
- Y. Habu** (Basel) Disruption of a novel Arabidopsis gene releases transcriptional gene silencing without altering DNA methylation

Related posters:

- G1** Double-Stranded RNA-Mediated Gene Silencing in Cereals  
*Patrick Schweizer, Jana Pokorny and Robert Dudler*
- G2** Search for plant components involved in homologous recombination: A mutant approach.  
*Olivier Fritsch, Jan Lucht, Gerhard Ries and Barbara Hohn*
- G3** Interaction of CaMV transactivator (TAV) with components of translational machinery  
*Hyun-Sook Park, Lyubov A Ryabova and Thomas Hohn*
- G4** AtGRP7 a clock-regulated protein in *Arabidopsis thaliana*  
*Luca Eckstein, Martin Neuenschwander, Laura Zecca, Klaus Apel und Dorothee Staiger*

**Session II Chloroplast Biology**Thursday morning 8am to 10am. Chairwoman : **Barbara Hohn**

- J.-D. Rochaix** (Genève) Identification of nucleus-encoded factors involved in the accumulation of specific chloroplast RNAs of *Chlamydomonas*.
- M. Goldschmidt-Clermont** (Genève) Chloroplast RNA trans-splicing: the role of nucleus-encoded factors
- F. Kessler** (Zürich) The *Toc159* Family of Chloroplast Protein Import Receptors in *Arabidopsis*.
- A. Boschetti** (Bern) Two Processing Sites and Enzymes Involved in Chloroplast Import of the Small Subunit Precursor for RuBisCO from *Chlamydomonas reinhardtii*
- U. Feller** (Bern) Is rubisco activase a temperature sensor in plants?

Related poster

**C1** Purification of a stromal processing protease from Chlamydomonas reinhardtii  
*G. E. Burkard and A. Boschetti*

## **Session III : Plant Development**

Thursday morning 10am to 12am. Chairman : **Fred Meins**

- K. Schneitz** (Zürich) How to form a sex organ: molecular and genetic analysis of NOZZLE, a gene involved in pattern formation, growth and early sporogenesis in Arabidopsis thaliana.
- A. Fleming** (Zürich) Control of leaf form and growth: of sugars and cells
- R. A. Aeschbacher** (Basel) Trehalose metabolism affects development of Arabidopsis by regulating the sugar sensing mechanism
- D. Schaefer** (Lausanne) New tools to investigate plant cell polarity processes
- J. Ashby** (Basel) Biochemical characterization of Tobamovirus movement protein-microtubule interactions
- C. Nawrath** (Fribourg) Characterization of transgenic Arabidopsis expressing a fungal cutinase.

Related posters:

**D1** The effect of trehalose on starch synthesis in Arabidopsis - implications for the response of plants to trehalose-producing micro-organisms

*Astrid Winger, Roger A. Aeschbacher, David Brodmann, Thorsten Fritzius, Thomas Boller and Andres Wiemken.*

**D2** The glycine-rich structural protein GRP1.8 of bean shows hydrophobic interactions in the cell wall

*Christoph Ringli and Beat Keller*

**D3** Control of Phyllotaxis

*Didier Reinhardt, Therese Mandel & Cris Kuhlemeier*

**D4** Intercellular communication through plasmodesmata

*M. Heinlein, J. Ashby, V. Boyko, J. Ferralli, M.-O. Kwon, E. Moreno Mata, A. Suslova, J. van der Laak*

**D5** Using fission yeast to identify plant cell polarity genes

*P.-F. Perroud, D. Schaefer, A. Finka and J.-P. Zryd*

**D6** In vivo observation of the actin network in Physcomitrella patens

*A. Finka, D. Schaefer, P.-F. Perroud and J.-P. Zryd*

**D7** Ethylene production in Solanaceae: potato one jump ahead of tomato!

*Jürg Oetiker*

**Session IV :****Poster session**

Thursday afternoon 5pm to 7pm

**Tuesday 20.30****Farewell seminar by Christian Brunold****Session V:****Structure, Physiology and Molecular Biology**

Thursday evening from 9pm to 10.30pm. Chairman: **Jean-David Rochaix**

- T. Genoud** (Fribourg)      Modulation of SA-perception by phytochrome signaling in Arabidopsis
- F. Mauch** (Fribourg)      Are Glutathione-Transferases Boring Unspecific Enzymes?
- P. Simon** (Genève)      A load of peroxidase genes in Arabidopsis thaliana.
- E. E. Farmer** (Lausanne)      Searching for novel biological activities of oxylipins in plants

Related posters:

- S1**    Identification of a pectin binding site on an extracellular peroxidase  
*C. Penel, S. Carpin, M. de Meyer, P. Simon and H. Greppin*
- S2**    Genetic approach towards the elucidation of the possible role of reactive oxygen as a signal in stress responses.  
*R. op den Camp, C. Ochsenbein, D. Loew, M. Nater, K. Apel*
- S3**    Identification, Cloning, and Properties of Cytosolic D-Ribulose-5-Phosphate 3-Epimerase from Higher Plants  
*Stanislav Kopriva, Anna Koprivova, and Karl-Heinz Süß*
- S4**    The Betalains : elusive pigments and their potential as in vivo markers  
*Hinz, U., Zaiko, M, Christinet, L., Zryd, J.P*
- S5**    Vesicular trafficking in Arabidopsis thaliana: characterization of the t-SNARE homologue AtSNAP33  
*Peter Wick, Xavier Gansel and Liliane Sticher*
- S6**    Expression of a tagged Plant Protein in the Yeast Pichia pastoris for Structure Function Analysis: Sucrose: Fructan 6-Fructosyltransferase (6-SFT), a Key Enzyme of Fructan Synthesis in Barley  
*Alain Denis Meyer, Denise Altenbach, Marcel Lüscher, Urs Hochstrasser, Thomas Boller and Andres Wienken*

## Session VI : Transport and assimilation

Friday morning from 8am to 10am. Chairwoman: **Liliane Sticher**

- M. Geisler** (Neuchâtel) The immunophilin-like twisted dwarf protein interacts with the C-termini of Arabidopsis ABC transporters in vitro
- A. Koprivova** (Bern) Assimilatory sulfate reduction in C<sub>3</sub>, C<sub>3</sub>-C<sub>4</sub>, and C<sub>4</sub> species of Flaveria.
- M. Bucher** (Zürich) Characterization of two families of phosphate transporters from vascular plants
- J.-M. Neuhaus** (Neuchâtel) Targeting of two different GFPs to different vacuoles in plants

Related posters :

**T1** ABC transporters in plants: Linking genes and function

*Markus Klein, Lucien Bovet Nicola Gaedeke, and Enrico Martinoia*

**T2** Expression of Lemna minor APS Reductase in A. thaliana

*P. Spielhofer, S. Täschler, R. Op den Camp and C. Brunold*

**T3** Regulation of assimilatory sulfate reduction by thiols in Arabidopsis thaliana.

*Pierre Vaudare, Mariane Suter, Sara Täschler & Christian Brunold*

**T4** A plant receptor function demonstrated in vivo in Saccharomyces cerevisiae for targeting to the lytic vacuole.

*Nadine Paris, David Humair, Doramys Hernandez and Jean-Marc Neuhaus*

## Session VII : Plant Defences

Friday morning from 10am to 12am. Chairman: **Enrico Martinoia**

- C. Reimann** (Lausanne) Salicylate biosynthetic genes from Pseudomonas aeruginosa used to manipulate salicylate production in Arabidopsis thaliana
- P. Reymond** (Lausanne) Differential gene expression in response to mechanical wounding and insect feeding in Arabidopsis: a cDNA microarray study.
- R. Dudler** (Zürich) Stryngolin protects and cures wheat from powdery mildew
- E. Herzog** (Basel) Interactions of the plant pararetrovirus virion-associated proteins with virus and host proteins.
- C. Feuillet** (Zürich) Genetic analysis of non-host resistance in Hordeum vulgare-Puccinia recondita sp. tritici interaction

Related posters

**P1** Towards the determination of the molecular basis of BABA-mediated potentiation of plant defenses

*Gabor Jakab, Laurent Zimmerli, Valérie Cottier, Muriel Maeder, Amapola Manrique, Valérie Toquin, Jean-Pierre Métraux and Brigitte Mauch-Mani.*

**P2** The compatible interaction between potato and *Phytophthora infestans*

*Katinka Beyer, Thomas Boller, Andres Binder and Margaret Collinge*

**P3** What we learned from salicylic acid induction-deficient mutants of *Arabidopsis*

*Christiane Nawrath and Jean-Pierre Métraux*

**P4** Anti-fungal activity of a virally encoded gene in transgenic Swiss wheat varieties.

*Christof Sautter, Monika Clausen, Regina Kräuter, Gabriele Schachermayr, Ingo Potrykus*

**P5** Assembly into filaments of the OGA-binding protein remorin

*Bariola PA, Stasiak A, Farmer EE.*





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