

JANUARY, MONDAY 26

9:15 - 9:30

Giorgio M. Giacometti (I), *IVSLA School Director*

Franco Gambale (I), *SIBPA President*
Welcome Addresses

Session “Introduction to ion transport in plant cell membranes”,
chair: Franco Gambale (I)

9:30 - 10:30

Rainer Hedrich (G)

1984-2004: ion channels in plants, where we came from where we are going

10:30 – 11:00 Coffee break

11:00 – 11:50

Dirk Becker

Molecular biology of plant ion channels: structure-function relationship (I)

12:10 – 13:00

Dirk Becker

Molecular biology of plant ion channels and transporters: structure-function relationship (II)

- Lunch Time -

15:30 – 16:30

Armando Carpaneto

Electrophysiological methods to investigate plant ion channels (I)

16:30 – 17:30

Armando Carpaneto

Electrophysiological methods to investigate plant ion channels and transporters (II)

JANUARY, TUESDAY 27

Session “ Plant plasma membrane I”
chair: Rainer Hedrich (G)

9:30 - 10:30

Hervé Sentenac

Identification and characterisation of plasma membrane transport systems (I)

10:30 – 11:00 Coffee break

11:00 – 12:00

Hervé Sentenac

Roles of K⁺ channels of the Shaker family in Arabidopsis (II)

12:00 – 13:00

Sabine Zimmermann

Genomics of cation nutrition in plants

- Lunch Time -

15:30 – 16:30

Helene Barbier-Brygoo

Anion channels in Arabidopsis: from candidate genes to physiological functions (I)

16:30 – 17:30

Helene Barbier-Brygoo

Anion channels in Arabidopsis: from candidate genes to physiological functions (II)

JANUARY, WEDNESDAY 28

Session “ Plant plasma Membrane II”

chair: Hervé Sentenac

9:30 - 10:30

Rainer Hedrich

Plant stomata: from biophysics to physiology

10:30 – 11:00 Coffee break

11:00 – 12:00

A.H. de Boer

Xylem transporters

12:00 – 13:00

A.H. de Boer

Modulation of ion channels by phosphorylation and 14-3-3 proteins

- Lunch Time -

JANUARY, THURSDAY 29

Session: “Plasma membrane active transporters”

Chair: Enrico Martinoia

9:30 – 10:30

Maria Ida De Michelis

Plant plasma membrane H⁺-ATPases: structure and function (I)

10:30 – 11:00 Coffee break

11:00 – 12:00

Maria Ida De Michelis??

Plant plasma membrane H⁺-ATPases: structure and function (II)

Special session on “Training opportunities in Europe”

Chair: Giorgio Giacometti

12:00 – 13:00

Katrin Czempinski

Training networks in Europe

Session “Plant vacuoles I”

Chair: Franco Gambale

15:30 – 16:30

Dale Sanders

Vacuolar ion channels in higher plants (I)

16:30 – 17:30

Dale Sanders

Vacuolar ion channels in higher plants (II)

JANUARY, FRIDAY 30

Session “Plant vacuoles II”,

chair: Dale Sanders

9:30 – 10:30

Enrico Martinoia

Vacuolar transporters: a general introduction (I)

10:30 – 11:00 Coffee break

11:00 – 12:00

Enrico Martinoia

ABC Protein from detoxification to stomatal regulation

Special session on “Bioinformatics for plant cells”

Chair: Giorgio Giacometti

12:00 – 13:00

Ingo Dreyer

Simulations of Ohmic Networks in Plants

Scientific Committee

IVSLA:

Giovanni Felice Azzone, IVSLA and Università di Padova
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Sabine Zimmermann (France)

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S.I.B.P.A.
SOCIETÀ ITALIANA DI BIOFISICA PURA ED APPLICATA



VIII International School for Pure and Applied Biophysics

“Ion channels and transporters in plant cells”

**26-30 January 2004
Palazzo Loredan, Venice (Italy)**

PROGRAMME



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