



Summer School

Mineral nutrition in photosynthetic organisms: molecular, physiological and ecological aspects



17-20 June 2009, Maratea, Italy

Organizing committee: Carlo Soave, Stefano Cesco, Irene Murgia and Gian Attilio Sacchi

Aim of the School is to offer the opportunity to PhD students to learn about different aspects of mineral nutrition in photosynthetic organisms (plants and algae) in a scientific challenging and stimulating atmosphere.

Preliminary scientific program

17 June 2009

morning: arrival and registration

afternoon session: **NUTRIENT AVAILABILITY IN SOIL, FRESH AND SALINE WATER**

E. Barberis (Dipartimento Valorizzazione e Protezione delle Risorse Agroforestali, Uni-TO, Italy) Soil fertility and plant mineral nutrition

R. Pinton (Dipartimento di Scienze Agrarie e Ambientali, Uni-UD, Italy) Mineral nutrient bioavailability in the rhizosphere

M. Giordano (Dipartimento Scienze del Mare, Uni-Politecnica delle Marche, Italy) Aspects related to algae mineral nutrition

18 June 2009

morning session: **CATION AND ANION UPTAKE: MECHANISMS AND REGULATION**

G. Thiel (Technische Universität Darmstadt, Germany) Trans-membrane nutrient transport: types and thermodynamic aspects

A. Moroni (Dipartimento di Biologia, Uni-MI, Italy) Methods for identification and characterization of mineral nutrient transporters Structure and mechanism of activity of mineral nutrient transporters

M.J. Hawkesford (Rothamsted Research, U.K.) Sulphate transporters and their regulation in plants





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afternoon session: METALS: SAVE THE GOOD AND AVOID THE TOXIC

J.F. Briat (INRA-Montpellier-France): Iron nutrition in plants

Speakers to be confirmed for the following topics: Heavy metals transport and homeostasis in plants

19 June 2009

morning session: NUTRIENT SENSING, SIGNALING AND ADAPTIVE RESPONSE

B.G. Forde (Department of Biological Sciences, Uni-Lancaster, UK): Nitrate signaling in plants

E. Martinoia (Institute of Plant Biology, University of Zurich, CH): Phosphorus signaling in plants

S. Kopriva (Department of Metabolic Biology, John Innes Centre, U.K.): Sulphur signaling in lower plants and algae

I. Murgia (Dipartimento di Biologia, Uni-MI, Italy): Regulation of iron nutrition by Nitric Oxide

afternoon session: COOPERATION AND COMPETITION FOR NUTRIENT ACQUISITION: AN ECOLOGICAL POINT OF VIEW

P. Bonfante (Dipartimento di Biologia Vegetale, Uni-TO, Italy): Mycorrhiza and plant nutrition

D. Daffonchio (Dipartimento di Scienze e Tecnologie Alimentari e Microbiologiche, Uni-Mi, Italy): Plant growth promoter microorganisms and mineral nutrients availability in soil

V. Roemheld (Institut für Pflanzenernährung, Universität Hohenheim, Germany): Ecological aspects of plant nutrient acquisition

20 June 2009

breakfast and departure

Each speaker will give a 50 min lecture + 10 min discussion. Program could be subject to changes.





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Scientific committee

Elisabetta Barberis - University of Torino,
Sabino Aurelio Bufo - University of Basilicata
Felice Cervone - University of Rome "La Sapienza"
Stefano Cesco - University of Udine
Irene Murgia - University of Milan
Gian Attilio Sacchi - University of Milan
Carlo Soave - University of Milan

Organizing committee

Carlo Soave (president), Stefano Cesco, Irene Murgia and Gian Attilio Sacchi

Location

Summer School will be held at the Hotel "VILLA DEL MARE", 85041 Acquafredda di Maratea,
Phone: +39-0973-878007; Fax: +39-0973-878102; e-mail: villadelmare@charmerelax.com
For the web site of the Hotel: <http://www.costadimaratea.com/villadelmare/index.html>

Acquafredda di Maratea is located on the coast in the gulf of Policastro, between Sapri and Maratea, about 200 Km south of Napoli and about 400 Km south of Roma.

How to reach Acquafredda di Maratea

International flights to Napoli or Roma are available.

If flying to Roma: take the shuttle train to ROMA TERMINI (Central rail station). Roma airport web site: <http://www.adr.it/>

If flying to Napoli: take BUS to NAPOLI PORTA GARIBALDI (Central rail station). Napoli airport web site: <http://www.gesac.it/>

Take then a train to Sapri. ES=Eurostar trains are faster and more expensive, but recommended.

University of Basilicata



University of Milan



University of Udine





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Be aware that School starts in the afternoon of the 17 June and that School fees cover three nights starting from 17 June. You could therefore plan your travel in this way:

stay either in Roma or Napoli until 17 June (early morning) at your expenses and then catch an early-morning train to Sapri. For train timetables, please check: WWW.TRENITALIA.IT. (this option is particularly suited for foreign students, who might reach Italy well in advance of School start).

To reach the Hotel Villadelfmare from Sapri station you can either catch a **Taxi** or just let us know time of your arrival in advance, in which case we will **pick** you up at Sapri station (please, let us know by e.mail at irene.murgia@unimi.it)

Registration Fee

Number of School participants is limited to 80 PhD students/post docs.

School fee: **320 Euro**, which cover the costs from 17 June late morning (lunch is included) to 20 June morning (breakfast is included), i.e. meals, coffee-breaks, evening party, lodging.

Rooms are double-beds and room mates will be assigned according to gender, unless otherwise specified in the registration form.

Registration procedure

Registration deadline: **20 April 2009**.

For registration please, follow this three-steps procedure:

1) payment of 320 Euros, by bank transfer, to:

| | |
|-----------------|---|
| Account holder: | Società Italiana di Fisiologia Vegetale |
| Account number: | 000011576036 |
| Bank: | Unicredit Banca di Roma Roma 153 |
| IBAN: | IT61L0300203371000011576036 |





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All banking costs must be paid by the participant. The name and address of the participant as well as the details of the payment should be clearly indicated when completing the bank transfer.

2) send a scanned copy of your payment (JPG or PDF format), by e.mail at claudio.caprari@unimol.it

3) send your registration form to irene.murgia@unimi.it

Once you have completed this three-steps procedure, we will confirm your registration by e.mail.

Poster presentation

You are welcome to prepare a poster (max size: 80 x 100 cm) of your current work, in which case we kindly request you to submit an abstract before 20 April 2007.

Abstract format: abstract should non exceeds 250 words, (courier 12 pt) and all the authors names and affiliations should be indicated. Abstract should be sent as word file to irene.murgia@unimi.it.

General informations

Hotel Villadelfmare is close to a lovely beach: do not forget to bring your swimming suit with you!!

If you are planning to spend a short holiday in Roma, we suggest you to make an Hotel reservation well in advance.

Contacts

For any questions or doubts regarding School organization, please contact organizers at

irene.murgia@unimi.it

gianattilio.sacchi@unimi.it

stefano.cesco@uniud.it





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Registration form

Please complete the form and send it to irene.murgia@unimi.it

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| First name | |
| Family name | |
| e.mail address | |
| Name of your current Research Institute | |
| Address of your current Research Institute | |
| If PhD student, please specify name of your tutor | |
| Did you send scanned copy of your bank payment to claudio.caprari@unimol.it ? | |
| Do you intend to present a poster? Y/N | |
| With whom would you like to share your room? If no preferences are indicated, room mates will be assigned according to gender | |

