

SCHEDULE ISINIP 2016

Monday, 30th May				
16:00	Registration open			
17:00	Opening Ceremony			
	Prof. José María Sanz Rector of the UAM			
	Mr. Ignacio Horche CEO BIOBAB R&D SL and chairman of the AEN/CTN 142			
	"Fertilizers, soil conditioners and substrates"			
	Prof. Juan José Lucena Chairman of the 2016 ISINIP, Dept. of Agricultural Chemistry			
	and Food Sciences. UAM			
17:15	I-PL: Ricardo Amils Professor of Microbiology. Dept. of Molecular Biology. UAM			
	Importance of the iron geomicrobiology in the mobilization of a critical element for life			
18:00	I-PL: Nicolaus von Wirén Head of Research Group on Molecular Plant Nutrition. IPK			
	Recent developments in Plant Iron Research			
19:00	Welcome reception (19:00)			

	Tuesday, 31st May
9:00-9:30	Poster mounting and registration
	Session 1: Iron chemistry and dynamics in soil
	Chairperson: Dr. Walter Schenkeveld . University of Vienna
9:30-10:10	PL: Stephan M. Kraemer, Walter Schenkeveld
	The Geochemistry of Strategy II Plant Iron Uptake
10:10-10:40	KN: José Torrent
	Soil minerals in iron nutrition: a short guide to friends and foes
10:40-10:55	O1: Walter D.C. Schenkeveld and Stephan M. Kraemer
	Synergistic effects between root exudates in Fe acquisition from soil
10:55-11:10	O2: Felipe Yunta and Juan J. Lucena
	Physic-chemical soil characterization must be done as preliminary step to predict
	the behavior of iron fertilizers
11:10-11:30	Coffee break
Se	ssion 2: Agronomic practices to correct Fe deficiency: fertilizer development
	Chairperson: Dr. Álvarez Fernández. EEAD-CSIC
11:30-12:00	KN: Adamo Domenico Rombolà
	Strategies for iron deficiency prevention in sustainable orchards and vineyards
12:00-12:30	KN: Sandra López-Rayo
12 20 12 15	Trends in Fe fertilization: from synthetic to natural compounds
12:30-12:45	O1: Adam Nawrocki, Magdalena Chojnacka-Jankowiak
12:45-13:00	FeHBED - From medical to agronomic application O2: Marcel H.J. Bugter, Arjen M. Reichwein, Levi M. Bin, Daniel Sanjosé Miquel
12.45-15.00	Testing the promising, 100% ortho-ortho, FeHBED for soil application
13:00-13:15	O3:Clara Martín-Fernández and Juan J. Lucena
15.00-15.15	Activation of the soybean root reductase activity and uptake as a function of the
	variety, chelate culture and Fe starvation
13:15-13:30	O4:Motofumi Suzuki, Kosuke Namba
	Novel synthetic analogs of mugineic acid family phytosiderophores are effective
	iron-fertilizers in calcareous soils
13:30-15:00	Lunch (Steering Committee meeting)
	Poster session. Authors of sessions 1 to 4 should be present

Tuesday, 31st May (Cont.)				
Session 3: Agronomic practices to correct Fe deficiency: genetic approaches				
	Chairperson: Silvia Cianzio . Iowa State University			
15:00-15:30	KN: Michelle A. Graham			
15:30-15:45	Using Genomics to Characterize Soybean's Iron Deficiency Response O1: Tomoko Nozoye, Takeshi Senoura, Suyoen Kim, Yuske Kakei, Michiko Takahashi, Motoyasu Otani, Hiromi Nakanishi, Naoko K. Nishizawa			
15:45-16:00	Overexpression of barley nicotianamine synthase 1 (hvnas1) confer tolerance to Fe deficiency on calcareous soil in soybean and sweet potato O2: Emre Aksoy, İlknur Tindas, Sevgi Caliskan Soybean: A new frontier in understanding the iron deficiency tolerance mechanisms in plants			
16:00-16:20	Coffee break			
	Session 4 Fe acquisition, transport and distribution in plants Chairperson: Naoko Nishizawa. The University of Tokyo			
16:20-16:50	KN: Ferenc Fodor			
16:50-17:05	Fe pools in roots: mechanism of iron acquisition from different sources O1: Brigitta Müller, Hởng-Điệp Phạm, Kálmán Szenthe, Éva Hamar, Krisztina Kovács, Éva Sárvári, Ferenc Fodor, Ádám Solti			
17:05-17:20	Mechanism and regulation of chloroplast iron uptake O2: Tadakatsu Yoneyama and Tomoko Ariga Chemical forms of cadmium, zinc, and iron in the phloem saps from rice (<i>Oryza sativa</i> L.) and castor bean (<i>Ricinus communis</i> L.)			
17:20-17:35	O3: Huei-Hsuan Tsai, Jorge Rodríguez-Celma and Wolfgang Schmidt The dioxygenase S5'H1 is a critical component of the Arabidopsis iron acquisition system			
17:35-17:50	O4: Adrián Luis-Villarroya, Yolanda Gogorcena, Javier Abadía, Anunciación Abadía, Ana Álvarez-Fernández ccRoot secretion and accumulation of catechol coumarins in iron deficient Prunus rootstocks			

Wednesday, 1st June					
	Session 4: Fe acquisition, transport and distribution in plants (Cont.)				
	Chairperson: Ferenc Fodor Eötvös Loránd University				
9:00- 9:40	PL: Petra Bauer				
	Multiple layers: Regulation of iron deficiency responses				
9:40- 9:55	O5: Jesse T. Beasley, Julien P. Bonneau, Yuan Li, Alexander A. T. Johnson				
	Discovery and Characterisation of Nicotianamine Aminotransferase and				
	Deoxymugineic Acid Synthase Genes Essential to Strategy II Fe Uptake in Bread Wheat				
9:55-10:10	O6: Takeshi Senoura, Tomoko Nozyoe, Hiromi Nakanishi, and Naoko K. Nishizawa Efflux or uptake transporters involved in iron transport and distribution in rice plants				
10:10-10:25	O7: Carlos Lucena, Rafael Porras, Francisco J. Romera, Esteban Alcántara, María J. García, Rafael Pérez-Vicente				
	Ethylene and phloem signals are implicated in the regulation of responses to Fe				
	and P deficiencies in roots of strategy I plants				
10:25-10:55	Coffee break				
11:00-19:00	Field Trip (Finca "el Socorro")				
	Cultural Visit to Alcalá de Henares				

Thursday, 2nd June				
Session 5: Iron and plant metabolism				
	Chairperson: Tadakatsu Yoneyama. University of Tokyo			
9:00-9:30	KN: Astrid Agorio, Jérôme Giraudat, Michele Bianchi, Françoise Lelièvre, Eiri Heyno,			
	Sébastien Thomine, Sylvain Merlot			
	Mutations in <i>Pleckstrin Homology domain protein 1 (AtPH1)</i> rescue <i>nramp3nramp4</i>			
	phenotypes by altering the subcellular localization of AtNRAMP1			
9:30-10:00	KN: Gianpiero Vigani			
	Multifaceted role of Fe deficiency-induced metabolic changes in plants			
10:00-10:15	O1: Irene Murgia, Dario Di Silvestre, Silvia Donnini, Anna Maria Agresta, Pierluigi			
	Mauri, Florian Bittner, Gianpiero Vigani			
	Cucumis sativus plants response to iron deficiency involves a wide alteration of			
10.15 10.20	molybdenum homeostasis			
10:15-10:30	O2: Motofumi Suzuki, Tomoko Nozoye, Seiji Nagasaka Hiromi Nakanishi, Naoko K. Nishizawa, Satoshi Mori			
	Detection of endogenous 2'-deoxymugineic acid in olive plant indicates			
	biosynthesis of phytosiderophore in non-graminaceous plants			
10:30-10:45	O3: Kyoko Higuchi, Tomomi Ogawa, Chiyo Kawamura, Rei Obata, Tomoe Fujisaku,			
10.00 10.10	Akihiro Saito			
	The regulatory mechanism of iron and metabolic adaptation in leaves of iron-			
	deficiency tolerant cultivars of barley			
10:45-11:00	O4: Laura Ceballos-Laita, Daisuke Takahashi, Matsuo Uemura, Anunciación Abadía,			
	Javier Abadía, Ana Flor López-Millán			
	Effects of Fe and Mn deficiencies in the protein profiles of tomato (Solanum			
	Lycopersicum) xylem sap			
11:00-11:30	Coffee break			
Session 6: Molecular regulation of Fe homeostasis				
	Chairperson: Petra Bauer. Heinrich Heine University			
11:30-12:10	PL: Hong-Qing Ling, Chun I. Chen, Hui I. Wu, Yue Zhang, Ning Wang, Yan Cui.			
10 10 10 05	Regulation Network of Iron Uptake and Homeostasis in Strategy I Plants			
12:10-12:25	O1: Isabel C. Vélez-Bermúdez, Wen-Dar Lin and Wolfgang Schmidt			
	Orchestration of transcriptional and translational control of cellular iron homeostasis			
12:25-12:40	O2: Hans-Jörg Mai and Petra Bauer			
12.25-12.40	Transcriptomic analyses reveal novel FIT targets, temporally FIT-dependent genes			
	and functionally distinct robustly iron deficiency-induced regulons			
12:40-12:55	O3: Jorge Rodriguez-Celma, James Connorton and Janneke Balk			
12.40 12.55	Characterization of two root specific BRUTUS/HRZ homologs found uniquely in			
	dicotyledoneous plants			
12:55-13:10	O4: Song Tan, Fang Liu, Xiao-Xi Pan, Yue-Peng Zang, Fei Jin, Wei-Xi Zu, Xiao-Ting Qi,			
	Wei Xiao, Li-Ping Yin			
	CSN6, a subunit of the COP9 signalosome, is involved in early response to iron			
	deficiency in <i>Oryza sativa</i>			
13:10-14:40	Lunch			
	Poster session. Authors of sessions 5 to 8 should be present			

Thursday, 2nd June (Cont.)				
Session 6: Molecular regulation of Fe homeostasis (Cont.)				
	Chairperson: Irene Murgia. University of Milan			
14:40-15:10	KN: Minh Hoang, Loren Castaings, Sandrine Chay, Carine Alcon, Stéphane Mari, Catherine Curie			
	Identification of key players of Fe speciation and transport machineries and regulation of Mn uptake by endocytosis			
15:10-15:25	O5: Girish Mokkapati, Louis Grillet and Wolfgang Schmidt			
	IRON MAN, a conserved novel family of peptides involved in iron homeostasis of plants			
15:25-15:40	O6: Wei Qiu, Jing Dai, Nanqi Wang and Yuanmei Zuo			
	A citrate transporter AhFRDL1 is involved in iron translocation and Al-tolerance in			
	peanut			
15:40-16:10	Coffee break ()			
16:10-16:25	O7: Takanori Kobayashi, Reiko Nakanishi Itai, Takeshi Senoura, Takaya Oikawa, Yasuhiro Ishimaru, Minoru Ueda, Hiromi Nakanishi, and Naoko K. Nishizawa HRZ ubiquitin ligases and jasmonate signaling regulate iron deficiency responses in rice roots			
16:25-16:40	O8: Nicolas Tissot, Jossia Boucherez, Amel Maghiaoui A, Romain Marcelin, Frédéric Gaymard, Jean-François Briat, Christian Dubos Identification and characterization of an integrator of the plant responses to iron availability			
20:00	Symposium Dinner Poster Awards			

Friday, 3rd June			
Session 7: Iron interaction with microorganism and environment			
	Chairperson: Manuel González-Guerrero. UPM		
9:00-9.30	KN: Aude Aznar, Nicolas W.G. Chen, Sebastien Thomine, Alia Dellagi		
	Iron : At the crossroads of plant immunity and nutrition		
9:30-9:45	O1: Alexandra Lešková, Ricardo F.H. Giehl, Anja Hartmann, Agáta Fargašová, and Nicolaus von Wirén		
	Dissecting the interference of heavy metals with iron deficiency responses in Arabidopsis thaliana		
9:45-10:00	O2: Teresa Fresno, Jesús M. Peñalosa, Jakob Santner, Markus Puschenreiter, Thomas Prohaska and Eduardo Moreno-Jiménez.		
	Arsenic immobilization on root surface <i>of lupinus albus l.</i> as a consequence of iron plaque formation under aerobic conditions		
10:15-10:30	O3: Anja Raschke, Mario Lange, Emad Albarouki, Holger B. Deising		
	Iron as a determinant of virulence and resistance in the <i>Colletotrichum graminicola</i> – maize interaction)		
10:30-10:45	O4: Manuel Tejada-Jiménez, Rosario Castro-Rodríguez, Igor Kryvoruchko, M. Mercedes Lucas, Michael Udvardi, Juan Imperial, Manuel González-Guerrero		
	MtNRAMP1 is responsible for iron uptake by rhizobia infected cells in <i>Medicago</i> truncatula nodules.		
10:45-11:15	Coffee break		

Friday, 3rd June				
Session 8: Iron fortification of crops for a better human nutrition				
(Chairperson: Janneke Balk. University of East Anglia and John Innes Centre			
11:15-11:45	KN: Narayanan Narayanan, Getu Beyene, Raj Deepika Chauhan, Eliana Gaitán-Solis,			
	Dimuth Siritunga Michael A. Grusak, Nigel Taylor and Paul Anderson			
	Biofortification of Cassava Storage Roots to Achieve Nutritionally Significant Levels of Iron and Zinc			
11:45-12:00	O1: S. Bahar Aciksoz, Atilla Yazici and Ismail Cakmak			
	Role of different nitrogen fertilizer forms on shoot and grain concentrations of iron			
12:00-12:15	O2: James Connorton, Cristobal Uauy, Janneke Balk			
	Characterising vacuolar iron transporters as targets for mineral biofortification in wheat grain			
12:15-12:30	O3: Hiroshi Masuda, May Sann Aung, Takanori Kobayashi, Hiromi Nakanishi, Naoko K. Nishizawa			
	Producing high iron rice with important rice varieties			
12:30-12:45	O4: Laura T. Moreno-Moyano, Julien Bonneau, Joseph Tohme, Alexander A.T Johnson			
	Agro-morphological and nutritional characterization of iron and zinc biofortified			
	backcross rice			
12:45	Concluding Remarks: Wolfgang Schmidt. Academia Sinica			
	CLOSING			
13:15	Lunch			
13:15	Poster dismounting			









Post Symposium Publication

Springer S+B Media B.V and the Organizing committee of the 18th ISINIP have agree accept to edit a special issue entitled *Iron nutrition in plants* for the Journal Plant and Soil (PLSO). Juan J. Lucena, Ana Álvarez, Ana López-Millán and Lourdes Hernández-Apaolaza will act as Guest editors.

The scientific contents consist of an edited and refereed collection of papers, for which the authors of the communications presented to the 18th ISINIP are invited to submit by the Guest Editors. The choice of referees, the referee process and final selection of papers are the responsibility of the PLSO Managing Editor appointed by the Editor in Chief.

The deadline to present the papers is **30 August 2016**

The special issue has a size of approximately 25 papers, to a maximum page count of 350 printed pages (including references, figures and tables).

Authors should follow the correct procedure for the submission of the manuscripts intended for publication in the special issue. It is crucial that this procedure is followed by each corresponding author, otherwise the papers will not be recognized as being part of the special issue and will be published as regular papers. The procedure for submission of the special issue via Editorial Manager, the online submission and review system for PLSO is as follows:

- a. Authors submit their paper through the following website http://plso.edmgr.com/
- b. During the online submission procedure, when asked to 'Select an Article Type', authors must choose 'S68 ISINIP2016' from the dropdown

It is important that the authors follow instructions carefully, as given in the "Instructions for Authors" details online:

http://www.springer.com/life+sciences/plant+sciences/journal/11104 and in the front of every issue of the journal. Please note that colour figures will be reproduced in black and white in the print copy and in colour online. Figures may be reproduced in colour in the print copy at the expense of the Authors.

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Field Trip (Finca "el Socorro") and Cultural Visit to Alcalá de Henares (Wednesday, 1st June):

- 11:00 Departure from Cantoblanco Campus (see Map for buses location)
- 12:00 Arrival and visit to Finca "El Socorro". CTTV Finca el Socorro is an experimental station managed by the IMIDRA (Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario) where vineyard culture is investigated and knowlegde transmitted to the growers.
- 13:00. Regional wine and olive oil tasting and field lunch with paella
- o 14:00. Departure from El Socorro
- 14:45 Arrival to Alcalá de Henares and guided tour around Old town Alcalá de Henares and Cervantes' House
- 18:00. Departure to Madrid city Center and Cantoblanco Campus

Symposium Dinner in Hotel NH Eurobuilding (Thursday, 2nd May)

- Start at 20:00 h and finish at 23:00 h
- o Address: Padre Damián street, 23,28036 Madrid)
- O How to arrive: From Chamartin station you may take Metro Line 10 direct to Cuzco station and walk five minutes to the hotel. From Atocha station, you may take a train to Nuevos Ministerios station where you will transfer to Metro Line 10. Disembark at the Cuzco station and walk five minutes to the hotel.
- o Hotel location Map



TRANSPORT TO CANTOBLANCO CAMPUS (UAM)

By BUS (with stop inside the campus):

• Line 714: Plaza Castilla - Cantoblanco - Comillas

http://www.crtm.es/tu-transporte-publico/autobuses-interurbanos/lineas/8 714 .aspx

- Line 827: Alcobendas Cantoblanco
- Line 827A: San Sebastián de los Reyes Alcobendas Cantoblanco
- Line 828: Campo de las Naciones Airport Cantoblanco

http://www.empresamontes.es/index.php/es/lineas-paradas

By TRAIN (Cercanías Renfe)

- Line C-4a Parla-Atocha-San Sebastián de los Reyes
- Line C-4b Parla-Atocha-Colmenar Viejo

http://www.renfe.com/EN/viajeros/cercanias/madrid/index.html

CONFERENCE SESSIONS in SALON DE ACTOS Faculty of Psychology, main hall.

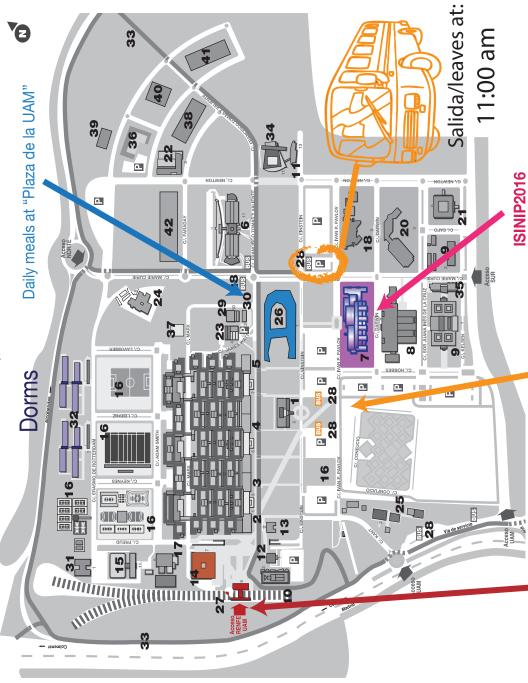
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Post-Symposium scientific publications

