

Oral Communications

Monday, 30 th May		
INAGURAL SESSIONS		
	Opening	17:00
I-PL-01	Ricardo Amils Importance of the iron geomicrobiology in the mobilization of a critical element for life	17:15
I-PL-02	Nicolaus von Wiren Recent developments in Plant Iron Research	18:00
Tuesday, 31 th May		
SESSION 1	Iron chemistry and dynamics in soil	
S1-PL-01	Stephan M. Kraemer, Walter Schenkeveld The Geochemistry of Strategy II Plant Iron Uptake	9:30
S1-KN-01	José Torrent Soil minerals in iron nutrition: a short guide to friends and foes	10:10
S1-OR-01	Walter D.C. Schenkeveld and Stephan M. Kraemer Synergistic effects between root exudates in Fe acquisition from soil	10:40
S1-OR-02	Felipe Yunta and Juan J. Lucena Physic-chemical soil characterization must be done as preliminary step to predict the behavior of iron fertilizers	10:55
SESSION 2	Agronomic practices to correct Fe deficiency: Fertilizer development	
S2-KN-01	Adamo Domenico Rombolà Strategies for iron deficiency prevention in sustainable orchards and vineyards	11:30
S2-KN-02	Sandra López-Rayó Trends in Fe fertilization: from synthetic to natural compounds	12:00
S2-OR-01	Adam Nawrocki, Magdalena Chojnacka-Jankowiak FeHBED - From medical to agronomic application	12:30
S2-OR-02	Marcel H.J. Bugter, Arjen M. Reichwein, Levi M. Bin, Daniel Sanjosé Miquel Testing the promising, 100% ortho-ortho, FeHBED for soil application	12:45
S2-OR-03	Clara Martín-Fernández and Juan J. Lucena Activation of the soybean root reductase activity and uptake as a function of the variety, chelate culture and Fe starvation	13:00
S2-OR-04	Motofumi Suzuki, Kosuke Namba Novel synthetic analogs of mugineic acid family phytosiderophores are effective iron-fertilizers in calcareous soils	13:15
SESSION 3	Agronomic practices to correct Fe deficiency: genetic approaches	
S3-KN-01	Michelle A. Graham Using Genomics to Characterize Soybean's Iron Deficiency Response	15:00
S3-OR-01	Tomoko Nozoye, Takeshi Senoura, Suyoen Kim, Yuske Kakei, Michiko Takahashi, Motoyasu Otani, Hiromi Nakanishi, Naoko K. Nishizawa Overexpression of barley nicotianamine synthase 1 (hvnas1) confer tolerance to Fe deficiency on calcareous soil in soybean and sweet potato	15:30
S3-OR-02	Emre Aksoy, İlknur Tindas, Sevgi Caliskan Soybean: A new frontier in understanding the iron deficiency tolerance mechanisms in plants	15:45
SESSION 4	Fe acquisition, transport and distribution in plants	
S4-KN-01	Ferenc Fodor Fe pools in roots: mechanism of iron acquisition from different sources	16:20
S4-OR-01	Brigitta Müller, Hồng-Điệp Phạm, Kálmán Szenthe, Éva Hamar, Krisztina Kovács, Éva Sárvári, Ferenc Fodor, Ádám Solti Mechanism and regulation of chloroplast iron uptake	16:50
S4-OR-02	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.)	17:05
S4-OR-03	Huei-Hsuan Tsai, Jorge Rodríguez-Celma and Wolfgang Schmidt The dioxygenase S5'H1 is a critical component of the Arabidopsis iron acquisition system	17:20
S4-OR-04	Adrián Luis-Villarroya, Yolanda Gogorcena, Javier Abadía, Anunciación Abadía, Ana Álvarez-Fernández ccRoot secretion and accumulation of catechol coumarins in iron deficient <i>Prunus</i> rootstocks	17:35

Wednesday, 1 st June		
S4-PL-01	Petra Bauer Multiple layers: Regulation of iron deficiency responses	9:00
S4-OR-05	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	9:40
S4-OR-06	Takeshi Senoura, Tomoko Nozyoe, Hiromi Nakanishi, and Naoko K. Nishizawa Efflux or uptake transporters involved in iron transport and distribution in rice plants	9:55
S4-OR-07	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	10:10
Thursday, 2 nd June		
SESSION 5 Iron and plant metabolism		
S5-KN-01	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	9:00
S5-KN-02	Gianpiero Viganì Multifaceted role of Fe deficiency-induced metabolic changes in plants	9:30
S5-OR-01	Irene Murgia, Dario Di Silvestre, Silvia Donnini, Anna Maria Agresta, Pierluigi Mauri, Florian Bittner, Gianpiero Viganì Cucumis sativus plants response to iron deficiency involves a wide alteration of molybdenum homeostasis	10:00
S5-OR-02	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	10:15
S5-OR-03	Kyoko Higuchi, Tomomi Ogawa, Chiyo Kawamura, Rei Obata, Tomoe Fujisaku, Akihiro Saito The regulatory mechanism of iron and metabolic adaptation in leaves of iron-deficiency tolerant cultivars of barley	10:30
S5-OR-04	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 (<i>Solanum Lycopersicum</i>) xylem sap	10:45
SESSION 6 Molecular regulation of Fe homeostasis		
S6-PL-01	Hong-Qing Ling, Chun I. Chen, Hui I. Wu, Yue Zhang, Ning Wang, Yan Cui. Regulation Network of Iron Uptake and Homeostasis in Strategy I Plants	11:30
S6-OR-01	Isabel C. Vélez-Bermúdez, Wen-Dar Lin and Wolfgang Schmidt Orchestration of transcriptional and translational control of cellular iron homeostasis	12:10
S6-OR-02	Hans-Jörg Mai and Petra Bauer Transcriptomic analyses reveal novel FIT targets, temporally FIT-dependent genes and functionally distinct robustly iron deficiency-induced regulons	12:25
S6-OR-03	Jorge Rodriguez-Celma, James Connorton and Janneke Balk Characterization of two root specific BRUTUS/HRZ homologs found uniquely in dicotyledoneous plants	12:40
S6-OR-04	Song Tan^{†1}, 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>	12:55
S6-KN-01	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	14:40
S6-OR-05	Girish Mokkalapati, Louis Grillet and Wolfgang Schmidt IRON MAN, a conserved novel family of peptides involved in iron homeostasis of plants	15:10
S6-OR-06	Wei Qiu, Jing Dai, Nanqi Wang and Yuanmei Zuo A citrate transporter AhFRDL1 is involved in iron translocation and Al-tolerance in peanut	15:25
S6-OR-07	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	16:10
S6-OR-08	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	16:25

Friday, 3rd June

SESSION 7 Iron interaction with microorganisms and the environment		
S7-KN-01	Aude Aznar, Nicolas W.G. Chen, Sebastien Thomine, Alia Dellagi Iron : At the crossroads of plant immunity and nutrition	9:00
S7-OR-01	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 <i>Arabidopsis thaliana</i>	9:30
S7-OR-02	Teresa Fresno, Jesús M. Peñalosa, Jakob Santner, Markus Puschenreiter, Thomas Prohaska and Eduardo Moreno-Jiménez. Arsenic immobilization on root surface of <i>lupinus albus l.</i> as a consequence of iron plaque formation under aerobic conditions	9:45
S7-OR-03	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	10:15
S7-OR-04	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 truncatula</i> nodules.	10:30
SESSION 8 Iron fortification of crops for a better human nutrition		
S8-KN-01	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	11:15
S8-OR-01	S. Bahar Aciksoz, Atilla Yazici and Ismail Cakmak Role of different nitrogen fertilizer forms on shoot and grain concentrations of iron	11:45
S8-OR-02	James Connorton, Cristobal Uauy, Janneke Balk Characterising vacuolar iron transporters as targets for mineral biofortification in wheat grain	12:00
S8-OR-03	Hiroshi Masuda, May Sann Aung, Takanori Kobayashi, Hiromi Nakanishi, Naoko K. Nishizawa Producing high iron rice with important rice varieties	12:15
S8-OR-04	Laura T. Moreno-Moyano, Julien Bonneau, Joseph Tohme, Alexander A.T Johnson Agro-morphological and nutritional characterization of iron and zinc biofortified backcross rice	12:30
CLOSING		12:45