

Poster sessions

VIII ISHS Symposium on Mineral Nutrition of Fruit Crops

27th – 30th June 2017, Bolzano – Italy



Tuesday, 27 June 2017 from 17:20 to 18:30

A systematic view of the KT/HAK/KUP potassium transporter gene family in the pear (*Pyrus bretschneideri* Rehd.) *Caixia Dong, Yan Li, Yangchun Xu*

Absorption of foliar applied micronutrients by apple leaves *Ms. Gabriela Kuresová, Adéla Neumannová, Pavel Svoboda*

Aluminium toxicity in 'Bing' on Gisela®6 sweet cherry trees: Effects on biomass accumulation and micronutrient-cation uptake *Pamela Artacho, Claudia Bonomelli*

Arbuscular mycorrhizal contribution to nitrogen uptake in grapevine *Francesca Scandellari*

Changes in the composition of root exudates of two grapevine rootstocks in response to Fe deficiency *Anita Zamboni, Luigi Lucini, Laura Marastoni, Oriano Navacchi, Marco Trevisan, Zeno Varanini*

Comparative analysis of different nutrient solution on some biochemical and physiological responses of strawberry cultivars under salt stress *Ebrahim Latifikhah, Saeid Eshghi, Gharaghani, Enayatollah Tafazoli, Fatemeh Razzaghi*

Cultivation of black oats (*Avena strigosa* Schreb) improves the solubilization of rock phosphate and increases P availability to red Niagara (*Vitis labrusca* L.) plants grown in succession *George Melo, José Antonio Morais Neto, Jaqueline Vieira, Katiussa Ozelame, Hissashi Iwamoto, Alfredo Nascimento Junior, Jovani Zalamena*

Determination of micronutrient contents of pistachio (*Pistacia vera* L.) orchards in Sanliurfa *Bekir Erol Ak, Izzet Acar*

Differences in macronutrient uptake by apple rootstocks M9, M27 and MM106 *Adéla Neumannová, Gabriela Kuresová, Ivana Raimanová*

Effect of Nitrogen Rates on 'Western Schley' Pecan Tree Development *Humberto Nuñez Moreno, James Walworth, Andrew Pond, Michael Kilby*

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Effectiveness of synthetic calcite doped with Fe-EDDHA to prevent iron chlorosis on in-vitro grown kiwifruit (*Actinidia deliciosa*) plants: proof of principle *Elena Baldi, Grazia Marino, Moreno Toselli, Claudio Marzadori, Claudio Ciavatta, Matteo Calvaresi, Giuseppe Falini, Francesco Zerbetto*

Effects of soil pH on the root growth of passion fruit and the mechanism of mineral uptake *Hirokazu Higuchi, Shota Niwayama*

Evaluation of growth and anatomical root structure of *Campomanesia pubescens* (Mart. ex DC.) O.Berg (Myrtaceae) under different concentrations of aluminum *Juliana Sales, Érica Virgínia Jesus Amaral, Lilia Cristina Souza Barbosa, Jefferson Naves Pinto, Edesio Fialho dos Reis, Sebastião C Vasconcelos-Filho*

Induction and correction of early boron deficiency in grapevines grown in hydroponics: macro-versus micro-scale symptomatology *Paolo Ermacora, Marco Contin, Ruggero Osler, Alberto Loschi, Stefano Borselli, Giulia Tarquini, Rita Musetti*

Influence of PRD and mulching on nutrient contents of raspberry *Kujtim Lepaja, Endrit Kullaj, Lavdim Lepaja, Naim Krasniqi*

Influence of Soil Organic Matter Content on Leaf Minerals, Fruit Quality, and Soil Chemical Properties in 'Gamhong' /M.9 Apple Orchard *Seong-Eun Lee, Jin-Myeon Park, Bong-Nam Chung, Pyoung-Ho Yi, Gopal Selvakumar*

Influence of the magnesium content in apple leaves on photosynthetic capacity *Graciela María Colavita, Valeria Blackhall, Mariela Curetti, Gustavo Adolfo Orioli*

Interrelation of Plant Nutrition and Strawberry Leaf Samples Grown under Mediterranean Type Environment *Mehmet Ali Saridas, Gözde Nogay, Hilal Attar, Sevgi Payda Karg*

Long term response on nutrient contents at harvest and stored in basement in young pear trees affected by RDI *Lavdim Lepaja, Endrit Kullaj, Kujtim Lepaja, Agim Zajmi*

Magnesium uptake in grapevine rootstocks: a role for MRS2 genes? *Anita Zamboni, Davide Sega, Tiziana Pandolfini, Zeno Varanini*

Mineral nutrient concentration of pistachio cultivars grown in the Sanliurfa province *Bekir Erol Ak, Izzet Acar, Islim Cetiner*

Mineral nutrients removal in hazelnut orchards in Piedmont *Delia Revelli*

Morphoanatomical characteristics of leaves of *Anacardium othonianum* Rizz. seedlings subjected to different nitrogen doses under hydroponic conditions *Fabiano Silva, Layara A. Bessa, Marialva A. Moreira, Luciana C. Vitorino, Sebastião C. V. Filho, Cássia L. Rodrigues*

Multielement profile and strontium isotope ratio discriminate apples according to their production area: a preliminary case study in South Tyrol *Agnese Aguzzoni, Michele Bassi, Peter Robatscher, Francesca Scandellari, Massimo Tagliavini, Werner Tirlir*

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Mycorrhizal species significantly increased citrus yield and nutrient concentration, under field conditions *Dr. Ibrahim Ortas*

Nutrient uptake in huanglongbing affected sweet orange plants *Faisal Shahzaad, Changpin Chun, Arnold Schumann, Tripti Vashisth*

Photosynthesis and growth of young grapevines intercropped with native grasses in soils contaminated with copper *Lessandro De Conti, G. Wellington De Melo, C. Alberto Ceretta, Camila Tarouco, Anderson Marques, Fernando Nicoloso, Adrieli Tassinari, Tadeu L Tiecher, Stefano Cesco, Mimmo Tanja, Gustavo Brunetto*

Relationship between internal breakdown and mineral nutrition in 'Keitt' mango fruit flesh *Xiaowei ma, Quansheng yao, Haiyang Ma, Hongxia Wu, Yigang Zhou, Songbiao Wang*

Relationships of pH and Element Content of the Drainage Water of Everbearing Strawberry Grown on Different Substrates *Paolo Zucchi, Daniela Bertoldi, Tommaso Pantezzi*

Soil quality in olive and peach orchard managed in a sustainable way: the role of N cycling soil microbial communities *Bartolomeo Dichio, Silvia Pascazio, Alba Nicoletta Mininni, Marina Scagliola, Angelo Carmine Tuzio, Adriano Sofo*

The effects of fertilizer application on nutrient use efficiency in peach production in the Bulgarian regions Sliven and Petrich *Ivan Manolov, Anton Yordanov, Maria Apostolova, Margarita Nikolova, Boyan Stalev, Hristina Kirova*

Traceability of fruit nutrient contents in apple trees *Kadir Uçgun, Sait Gezgin, Mustafa Harmankaya, Mesut Altindal, Murat Cansu, Turgay Seymen*

Use of ¹⁵N stable isotope to study the N cycle at tree and orchard level *Scandellari Francesca, Massimo Tagliavini*

Using the nitrification inhibitor DMPP to enhance efficiency in a fertigated peach orchard plantation *Josep M Villar, Miquel Pascual, Amadeu Arbonés, Marta Vilarrasa, Josep Rufat*

Thursday, 29 June 2017 from 15:50 to 17:00

Application of pesticides and fertilizers by trunk injection in fruit orchards of Iran *Mehdi Hosseini Farahi, Mohammad Mahdi Jowkar*

Assessment of silicon biofortification and its effect on the content of bioactive compounds in strawberry (*Fragaria × ananassa* cv. Elsanta) fruits *Pii Youry, Fabio Valentinuzzi, Klarissa Cologna, Tanja Mimmo, Stefano Cesco*

Cocoa (*Theobroma cacao* L.) trees benefit from nitrogen derived from the atmosphere when intercropped with the legume tree *Gliricidia sepium* (Jacq., Kunth ex Walp.) *Massimo Tagliavini, James Seutra Kaba, Stefan Zerbe, Akwasi A. Abunyewa, Damiano Zanotelli*

Comparison of animal bone biochar and plant based biochar in strawberry production *Darinka Koron, Lea Lavric, Edward Someus*

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Conifer wood biochar as growing medium for citrus nursery *Giancarlo Rocuzzo, Paola Caruso, Maria Patrizia Russo, Fiorella Stagno, Biagio Torrisi, Maria Allegra, Filippo Ferlito*

Contribution from vermicompost to trace elements uptake in *Capsicum baccatum* L. var. pendulum under organic management in La Molina ' Peru *Andres V. Casas Diaz, Pedro Gutierrez, Ruby Vega, Sady García, Cristel Zorrilla*

Discriminant analysis in the selection of groups of peach varieties *George Wellington Melo, Danilo Eduardo Rozane, Gustavo Brunetto, Daiane Silva Lattuada*

Effect of chloride-containing fertilizer application on kiwifruit yield, quality, and soil Cl concentration *Lili Yang, Yan-an Tong*

Effect of fertigation on yield and fruit quality of apple (*Malus domestica* Borkh) in high density orchards on chernozems in Central Russia *Andrey Kuzin, Yury Trunov, Alexandr Solovyev*

Effect of fertilisation management on greenhouse gas emissions from a peach orchard *Marta Vilarrasa, M. R. Teira-Esmatges, J.M. Villar, M. Pascual, A. Arbonés, J. Rufat*

Effect of potassium fertilizer in saline fertigation solutions on the growth of Medjool date palm plants grown in river sand or a river sand-calcium carbonate mix *Oosthuysen*

Effect of various irrigation regimes and bio stimulant application on the leaf iron concentration of 'Kabarla' strawberry variety *Mehmet Ali Saridas, Burçak Kapur, Esereliktopuz, Sevgi Payda Karg*

Effects of compost made from pruned pear trees on the fruit, soil nutrients, and microorganisms in pear orchards *Peng Zhao, Caixia Dong, Yangchun Xu*

Effects of N-fertilization and rootstocks on the performance of Red Delicious Spur apples trees *Martin Thalheimer*

Foliar application of potassium-based fertilizer improve strawberry fruits quality *Pii Youry, Fabio Valentinuzzi, Mauro Maver, Sara Fontanari, Daniela Mott, Gianluca Savini, Tanja Mimmo, Stefano Cesco*

Getting the best from high density apple orchards in Australia: combining mineral nutrition research, nutrient monitoring, improved management practices and grower expertise *Bruce Scott*

Influence of foliar application of calcium to physiological disorders of apple cultivars 'Antei' and 'Rubin (Kazah.)' *Valentina Pole, Edgars Rubauskis, Imants Missa*

Influence of nutrient solution concentration on NPK in leaves on growth of two June bearing strawberry (*Fragaria x ananassa* Duch.) cultivars, analyzed by different analyzing options *Rolf Nestby, Anita Soenstebj*

Influence of soil type on nutrient status of highbush blueberry leaves in Latvia, 2013-2015 *Anita Osvalde, Andis Karlsons, Gunta Cekstere, Jolanta Pormale, Jana Apse*

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Nitrogen losses in a table grape vineyard following summer and winter pruning *Giuseppe Ferrara, Angela Maria Matarrese, Andrea Mazzeo, Donato Mondelli, Anna Daniela Malerba*

Organic fertilizer application and harvest time significantly influence on 'Hwangkumbae' pear fruit quality *Songzhong Liu, Ming-de Sun, Yang Wu, Qing Chen, Jun Liu*

Passion fruit quality as affected by calcium concentration in nutrient solution *Tomohiro Kondo, Hirokazu Higuchi*

Performance of foliar application in reducing physiological disorders of two apple cultivars during storage *Valentina Pole, Edgars Rubauskis, Imants Missa*

Post bloom spraying apple trees with prohexadione-calcium and gibberellic acid affects vegetative growth, fruit mineral content and bitter pit incidence *Cassandro Amarante, João Silveira, Cristiano Steffens, Vinicio Denardi, Sergio Freitas, Jose Katsurayama*

Potassium-calcium ratio in the nutrient solution: implications for fruit quality in junebearing and day-neutral strawberry cultivars *Philip Lieten, Nicole Gallace*

Root growth dynamic and plant performance of nectarine trees amended with biochar and compost *Giovambattista Sorrenti, Enrico Muzzi, Elena Baldi, Maurizio Quartieri, Graziella Marcolini, Bruno Marangoni, Moreno Toselli*

Site-specific management of Williams pear fertilization and yield response in Argentina *Mariela Curetti, Rosa Holzmann, Carlos Magdalena, Andrea Rodriguez, Edgardo Benitez-Piccini, Mauricio Romitelli, Fredis Cabezas, Dario Fernandez*

Sources and doses of fertilizers affect the foliar and fruits mineral composition of 'Daiane' apples *Leandro Hahn, Clori Basso, Luiz Carlos Argenta, Marcelo José Vieira*

The effect of foliar fertilisation with sulphur on changes in mineral composition of leaves and fruits of *Malus x domestica* cv. GLOSTER *Hana Belikova, Tomas Losak, Martin Mezsaros, Patrik Conka*

The effect of zinc, silicon and amino acids foliar sprays on fruit quality attributes of organic Jonathan apples cultivated in South Tirol (Italy) *Sebastian Soppelsa, Markus Kelderer, Claudio Casera, Michele Bassi, Peter Robatscher, Carlo Andreotti*

Timing and rate of nutrient application increase N efficiency, productivity and quality of peach fruit *Miquel Pascual Roca, Josep M Villar, Amadeu Arbonés, Marta Villarrasa, Josep Rufat*

Use of the DRIS method for the identification of critical levels, sufficiency ranges and potential response to nutrient fertilization on grapevine *George Wellington Melo, Danilo Eduardo Rozane, Gustavo Brunetto*

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