

XVI International Plant Nutrition Colloquium

Session G: Element Toxicity and Remediation

POSTERS

- 1012 Effect Of Cd-Enriched Sewage Sludge On Plant Growth, Nutrients And Heavy Metals Concentrations In The Soil-Plant System. *Munir Rusan (Jordan University Of Science And Technology) and Bayan Athamneh (Jordan University Of Science And Technology)* ([PDF](#))
- 1025 Effect of potassium, Zinc and Copper on vegetative growth of two wheat cultivars under water stress. *Mohsen Moussavinik (University of Birjand, Iran) and Hamid Mobasser (University of Azad Islamic, Zahadan, Iran)* ([PDF](#))
- 1050 Role Of Thiol Compounds In Arsenic Tolerance In *Pteris vittata*. *Toshihiro Watanabe (Hokkaido University) et al.* ([PDF](#))
- 1052 Decrease Of Cadmium Accumulation In Crops By Zero-Valent Iron. *Toshihiro Watanabe (Hokkaido University) et al.* ([PDF](#))
- 1062 Comparison Of Cadmium Distribution In The Root Tissues Of *Solanum melongena* And *Solanum torvum*, Which Have Different Abilities For Cadmium Transport From The Root To Shoot. *Noriko Yamaguchi (National Institute For Agro-Environmental Sciences) et al.* ([PDF](#))
- 1065 Accumulation And Transport Mechanisms Of Arsenic In Rice. *M. Islam (The University Of Tokyo) et al.* ([PDF](#))
- 1069 Genotypic Variation In Foliar Nutrient Concentrations, Carbon And Nitrogen Isotope Compositions In Relation To Tree Growth Of *Pinus radiata*. *Jianming Xue (Scion, Christchurch, New Zealand) et al.* ([PDF](#))
- 1079 Characteristics Of Translocation And Remobilization Of Zinc Absorbed From Different Stages Into Grain In Dense Rice Genotype Using A Stable Isotope Tracing Technique. *Xiaoe Yang (Zhejiang University) et al.* ([PDF](#))
- 1081 The Effect Of Fe Injection On Flowering In Soybean Without Fe-Deficiency Symptoms. *Takashi Shoji et al.* ([PDF](#))
- 1088 The Impact Of Mineral Fertilizers On The Carbon Footprint Of Crop Production. *Frank Bretrup (Yara International, Research Centre Hanninghof)* ([PDF](#))
- 1089 Phosphorus Availability Does Not Affect The Root To Shoot Allometric Relationship In Soybean, Sunflower And Maize. *Gerardo Rubio (University Of Buenos Aires)* ([PDF](#))

- 1092 Higher Plants Have The Ability To Reduce Iodate To Iodide. *Hitoshi Sekimoto (Utsunomiya University)* ([PDF](#))
- 1123 Crop Growth As Influenced By Zinc And Organic Matter In Cadmium-Rich Polluted Soils. *Satyanarayana Talatam (International Plant Nutrition Institute) and Satyanarayana Talatam (International Plant Nutrition Institute)* ([PDF](#))
- 1125 ClpC, A ATP-Dependent Chloroplast Protease (Clp), Is Involved In Iron Metabolism In Arabidopsis. *Huilan Wu (Institute Of Genetic And Development Biology, Chinese Academic Of Science) et al.* ([PDF](#))
- 1141 Connection Between Aluminium Exclusion And Accumulation In The Aluminium Accumulator Buckwheat (*Fagopyrum esculentum* Moench). *Benjamin Klug (Leibniz University Of Hannover, Institute Of Plant Nutrition) and Walter Horst (Leibniz University Of Hannover, Institute Of Plant Nutrition)* ([PDF](#))
- 1146 Genotypic Variation In Arsenic Absorption And Metabolism In Rice. *Masato Kuramata (National Institute For Agro-Environmental Sciences) et al.* ([PDF](#))
- 1147 Transcriptomic Analysis Of Genotypic Differences In And The Effect Of Silicon On Manganese Tolerance Of *Vigna unguiculata* [L.] Walp. *Katharina Bollig (Leibniz University Of Hannover, Institute Of Plant Nutrition) et al.* ([PDF](#))
- 1150 Transcriptomic Analysis Reveals Differential Gene Expression In Common Bean (*Phaseolus vulgaris*) For Aluminum Resistance. *Dejene Eticha (Leibniz University Hannover, Gemany) et al.* ([PDF](#))
- 1151 Analysis Of Root-To-Shoot Translocation Of Cd In Rice Cultivars Using A Positron-Emitting Tracer Imaging System. *Satoru Ishikawa (National Institute For Agro-Environmental Sciences) et al.* ([PDF](#))
- 1152 The Use Of NTA And EDTA For Lead Phytoextraction From Soil From A Battery Recycling Site. *Eriberto Freitas et al.* ([PDF](#))
- 1159 Nutritional Status Of Some Aromatic Plants Grown To Produce Volatile Oils Under Treated Municipal Wastewater Irrigation. *Ramadan Khalifa (National Research Centre)* ([PDF](#))
- 1167 Aluminum-Detoxifying Compounds In Roots Of *Eucalyptus Camaldulensis*. *Ko Tahara (Forestry And Forest Products Research Institute, Japan) et al.* ([PDF](#))
- 1170 The Binding Of Al In Different Polysaccharides Alleviates Al Toxicity To Root Apices. *Mm Xu (Department Of Horticulture, Foshan University) et al.* ([PDF](#))

- 1181 Non-Invasive Imaging Of Cadmium Distribution In Intact Oilseed Rape Plants. *Shin-Ichi Nakamura (Department Of Biological Production, Faculty Of Bioresource Sciences, Akita Prefectural University) et al.* ([PDF](#))
- 1183 Low Cadmium (LCD), A Novel Gene Related To Cadmium Tolerance And Accumulation In Rice Seeds. *Hugo Shimo (The University Of Tokyo)* ([PDF](#))
- 1184 Differences Of Growth Response To Aluminum Excess Of Two Melaleuca Trees Differing In Aluminum Resistance. *Yoshifumi Housman (Graduate School Of Bioresource Sciences, Nihon University) et al.* ([PDF](#))
- 1208 Identification Of A Novel QTL For Shoot Cd Accumulation In Rice. *Daisei Ueno (Research Institute For Bioresources, Okayama University) et al.* ([PDF](#))
- 1230 Contribution Of Soil Organic Sulphur Fractions To Marandu palisadegrass Sulphur Nutrition. *Francisco Monteiro (University Of Sao Paulo/ESALQ, Piracicaba - Brazil) and Fabiano De Bona (University Of Sao Paulo/ESALQ, Piracicaba - Sp, Brazil)* ([PDF](#))
- 1232 Defining The NAM Regulon For Gene Targets To Biofortify Crop Iron, Zinc, And Protein Concentrations. *Brian Waters (University Of Nebraska At Lincoln) et al.* ([PDF](#))
- 1238 Characterization Of Cadmium Transport In Soybean Plant Using Radioisotopes ^{107}Cd And ^{109}Cd . *Sayuri Ito (Japan Atomic Energy Agency) et al.* ([PDF](#))
- 1270 Molecular And Physiological Analysis Of Aluminum Tolerance In Maize Recombinant Inbreds. *Vera Alves (Embrapa Maize And Sorghum) et al.* ([PDF](#))
- 1273 Influence Of Plant Cadmium Content On Root Cadmium Uptake. *Tanegmart Redjala (INPL (ENSAIA)/INRA) et al.* ([PDF](#))
- 1293 Possible Reasons Why Aluminum Is A Beneficial Element For *Melastoma malabathricum*, An Aluminum Accumulator. *Toshihiro Watanabe (Hokkaido University) and Mitsuru Osaki (Hokkaido University)* ([PDF](#))
- 1297 Stomatal Conductance Is The Main Limitation To Photosynthesis In Sugar Beet Plants Treated With Zn Excess. *Ruth Sagardoy (EEAD-CSIC, Zaragoza, Spain) et al.* ([PDF](#))
- 1329 Distribution Of Water Extractable Heavy Metals (Cd, Co, Mn And Mo) In The Topsoil Of Osijek-Baranja County (Eastern Croatia). *Vladimir Ivezic (University Of Life Sciences (UMB), Norway) et al.* ([PDF](#))
- 1358 Contribution Of Arbuscular Mycorrhizal (*Glomus intraradices*) Fungus With Tomato Plants Grown Under Copper Toxicity. *Parviz Malekzadeh (Urmia University) et al.* ([PDF](#))

- 1372 Efficiency Of Adaptation Mechanisms Of Rice To Diverse Conditions Of Iron Toxicity. *Katrin Engel (Bonn, Germany)* ([PDF](#))
- 1400 The Protective Role Of A Unique Tissue Detachment On Root Cap Cells In A Strong Aluminum-Resistant Tree *Acacia mangium*. *Izuki Endo (University Of Tokyo) et al.* ([PDF](#))
- 1401 Long-Term And Highly Aluminum-Resistant Root Elongation In A Camphor Tree *Cinnamomum camphora*. *Hiroki Osawa (The University Of Tokyo)* ([PDF](#))
- 1427 The Assessment Of Selected Wastes And Plants Usability For Reclamation Of Copper Industry Dumping Site. *Zofia Spiak (Wroclaw University Of Environmental And Life Sciences) and Krzysztof Gediga (Wroclaw University Of Environmental And Life Sciences)* ([PDF](#))