

### Monday 17.07 - Green room

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|---------------|---------------|---|
| 9:50          | Slaveykova    | Mercury availability to biofilm: both chemical speciation and biofilm composition matters   |
| 10:10         | Viacava       | Arsenic biomethylation efficiency across microbial phyla  |
| 10:20         | Durand        | Microbial communities from poplar at a Hg phytomanagement site  |
| 10:30 - 11:00 | Coffee break  |   |
| 11:00         | Ge            | Effects of symbiotic bacteria on arsenate accumulation and transformation in microalgae   |
| 11:20         | Sanchez-Lopez | Diversity and functions of epiphytic bacteria of plants colonizing mine residues containing trace metals                            |
| 11:30         | Álvarez-López | Study of the plant-associated microbial communities at a red gypsum dump using environmental metabarcoding and isolation approaches |
| 11:40         |               |   |

### Tuesday 18.07 - Green room

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|---------------|-------------------|--|
| 9:20          | Slaveykova        | Biodynamic modelling of metal whole body concentrations in invertebrates from river floodplains  |
| 9:40          | Espejo            | Bioaccumulation and trophic transfer of trace elements in marine organisms from coastal ecosystems of South Shetland Islands and Antarctic Peninsula |
| 9:50          | Grosjean          | Genome-wide analyses of rare earth-responsive genes in model organisms   |
| 10:10         | Chen              | Detoxification of hexavalent chromate by growing <i>Paecilomyces lilacinus</i> XLA   |
| 10:30 - 11:00 | Coffee break      |  |
| 11:00         | Khoshgoftarmanesh | Root uptake and shoot accumulation of cadmium by lettuce at various Cd:Zn ratios in nutrient solution  |
| 11:20         | Kavcic            | Selenium induced ionic and metabolomic changes in mercury exposed plants and animals   |
| 11:40         | Arao              | Effect of temperature before/after heading of rice on arsenic concentration of rice grain  |
| 11:50         | Liu               | Do Si/As ratios in medium impact arsenic uptake, arsenite efflux and translocation in rice?  |
| 12:10         | Ma                | The role of lupin shoot P and Zn status in root allocation and nutrient uptake in soil with heterogeneous P and Zn distribution                      |

## Posters – Tuesday, 18.07, E-floor, Main Hall

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|-----------|--|
| Dalir     | Effects of Nickel on Zinc Uptake and Translocation in Two Wheat Cultivars Differing in Zinc Efficiency   |
| Derakhshi | Comparison of chemical and organic iron concentration within halophilic strains isolated from saline soils   |
| Espejo    | Bioaccumulation and trophic transfer of trace elements in marine organisms from coastal ecosystems of South Shetland Islands and Antarctic Peninsula   |
| Fahr      | Physiological and molecular characterization of Pb adaptation in <i>Hirschfeldia incana</i> (Brassicaceae)   |
| Kiyono    | Molecular breeding of <i>Arabidopsis</i> plants with cell-type specific promoters and a bacterial mercury transporter MerC                             |
| Liu       | Selenium and sulfur methylation of a <i>Pseudomonas</i> species and its transcriptomic responses to selenite exposure                                  |
| Ma        | Using thermal neutron tomography to investigate root system development of white lupin in soil with heterogeneous P and Zn distribution                |
| Matsuoka  | Effects of soil types and treatments on the dynamics of 13 elements in the root zone and their absorption by blueberry bushes                          |
| Owens     | Uptake of Cadmium by a Medicinal and Edible Plant - <i>Perilla frutescens</i>  |
| Tsadilas  | Effect of sewage sludge application on tobacco ( <i>Nicotiana tabacum</i> L.) and sunflower ( <i>Helianthus annuus</i> L.) growth and soil heavy metal |
| Vadas     | Comparison of Cu uptake by <i>Selenastrum capricornutum</i> in the presence of organic matter from wastewater effluent and stormwater runoff           |
| Viacava   | Arsenic biomethylation efficiency across microbial phyla   |
| Yu        | The effect of exogenous selenium on cadmium uptake and the antioxidative system of pakchoi   |
| Zhang     | A probe of the periodic elements for life  |