



Mechanisms of Heavy Metals and Trace Elements Assimilation in Crop and Countermeasures to Attenuate Their Accumulation

Guest Editors:

Dr. Silvia Rita Stazi

Department of Chemical,
Pharmaceutical and Agricultural
Sciences (DOCPAS), University of
Ferrara, Via Borsari, 46, 44121
Ferrara, Italy

Dr. Patrizia Brunetti

IBPM Institute of Molecular
Biology and Pathology, National
Research Council, Sapienza
University of Rome, Piazzale Aldo
Moro 5, 00185 Rome, Italy

Dr. Enrica Allevato

Department of Environmental
and Prevention Sciences (DiSAP),
University of Ferrara, Via Borsari,
46, 44121 Ferrara, Italy

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Message from the Guest Editors

This special issue aims to provide research advancements of methods and tools to identify, monitor and remove contaminants in soils, especially considering Nature Based Solutions (NBS) as well as sustainable and cost-effectiveness chemical-physical methods. Emphasis will be given to studies that address topics about:

1. behavior of Trace Elements in Plant-Soil System, chemical processes involved in the transformation and processes controlling bioavailability and mobility of trace elements in soils;
2. uptake, translocation, and transformation of trace elements in crop plant-soil-microbe system;
3. bioavailability, phytoavailability, bioaccessibility and risk assessment of essential and non-essential elements in agri-food and soil;
4. focus on the balance of trace elements in an agroecosystem;
5. biotechnology and nanotechnology to regulate trace elements' behavior in the plant-soil system;
6. new technology for characterizing chemical forms and bioavailability of trace elements in agricultural soils;
7. soil trace elements as affected by climate change;
8. agronomic techniques and anthropogenic activities contribution to soil trace elements contents.





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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

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Agronomy Editorial Office
MDPI, Grosspeteranlage 5
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