



Plant Growth Promoting Microorganisms Useful for Soil Desalinization

Guest Editors:

Prof. Dr. Stefano Castiglione

Department of Chemistry and Biology "A. Zambelli", University of Salerno, 84084 Fisciano, Italy

Dr. Francesco Guarino

Department of Chemistry and Biology "A. Zambelli", University of Salerno, 84084 Fisciano, Italy

Dr. Mattia Terzaghi

Department of Chemistry and Biology "A. Zambelli", University of Salerno, Via G. Paolo II n° 132, 84084 Fisciano, Italy

Deadline for manuscript submissions:

closed (31 January 2021)

Message from the Guest Editors

Dear Colleagues,

Salinization of cultivable soils is one major issue that humankind will have soon to face, high salt content will cause a reduction of crop yields and also their palatability. During the last decade, it has been recognized that rhizospheric microorganisms play a relevant role to maintain and improve plant health, such as promoting plant growth, and reducing stress caused by soil salinization.

Some studies have demonstrated the tolerance to high salt concentrations of certain microorganism strains and their capability to improve the plant wellness. The combination of these salt-tolerant PGP microorganisms with halo-tolerant crops could provide an income to farmers of these areas of the world which are usually very poor, and a mitigation of this serious problem throughout a phytoremediation process.

For the above-mentioned reasons, we are proposing the collection of scientific manuscripts which can shed light on principles which regulate interactions among plants and microorganisms in the case of salty and arid cultivable soils.

Prof. Dr. Stefano Castiglione

Dr. Francesco Guarino

Dr. Mattia Terzaghi

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)