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Effects of Wastewater and Pesticides on Soil Fertility and Microbiological Activity

Guest Editors:

Prof. Dr. Naga Raju Maddela
Department of Biological Sciences, Faculty of Health Science, Universidad Técnica de Manabí, Portoviejo, Ecuador

Dr. Binbin Sheng
Guangdong Province Key Laboratory for Biotechnology Drug Candidates, School of Life Sciences and Biopharmaceutics, Guangdong Pharmaceutical University, Guangzhou 510006, China

Deadline for manuscript submissions:
closed (25 September 2023)

Message from the Guest Editors

Dear Colleagues,

Unsustainable agricultural practices have a significant impact on soil pollution for diverse reasons; among these, the application of wastewater (untreated/treated) for irrigation and the use of excessive pesticides are key causes of soil pollution in agriculture. The consequence of agricultural soil pollution is the loss of soil fertility. Wastewater comprise a cocktail of pollutants that are both naturally occurring or man-made and can include chemical contaminants (e.g., nitrogen, bleach, salts, pesticides, metals, toxins produced by bacteria, and human or animal drugs) and biological contaminants. These contaminants have various adverse effects on the development, morphology, and metabolism of soil microorganisms by causing functional disturbances, protein denaturation, the destruction of cell membrane integrity, etc. In particular, soil microbial enzymes are efficient in revealing ecosystem perturbations, and they are very sensitive to agricultural management practices.

Therefore, this Special Issue calls for all types of articles, such as original research, opinions, and reviews, are welcome.

Prof. Dr. Naga Raju Maddela
Dr. Binbin Sheng
Guest Editors

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Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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