Special Issue

Agricultural Biotechnology for Soil Remediation and Conservation

Message from the Guest Editor

Agricultural practices have evolved over time, always maintaining the same goal of feeding as many people as possible. Crop failure due to pests, fires, or climate change has led to major famines and loss of human life. For years, agriculture has drifted towards intensification through specialization, increasing the size of production units and mechanization, which has improved living standards. However, some of those agricultural practices, such as indiscriminate use of synthetic fertilizers and pesticides, restricted cultivation of high-yield varieties, and the continuous use of machinery, negatively affect agroecosystems and agricultural soils, particularly the habitats of insects, weeds, or microorganisms living in agricultural ecosystems, essential to maintain crop yields. Nowadays, according to FAO data, a third of agricultural soils are degraded, the genetic diversity of crops has been reduced to 25%, and several million hectares of forest have disappeared, transformed for different uses. Implementing corrective measures is absolutely necessary, as is advancement in the study of new methodologies to understand their real impact on the environment and crop yields.

Guest Editor

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