Special Issue

Microbial Degradation of Pesticide Residues in Polluted Soil

Message from the Guest Editor

In the context of contemporary agriculture, the widespread utilization of pesticides is indispensable for pest control and crop yield optimization. However, this extensive usage has resulted in significant environmental consequences, particularly evident in soil pollution. In response to the high interest in minimizing pesticide environmental impact, various remediation technologies have been developed, including physical, chemical, and biological methods. Microbial degradation of pesticide residues in soil holds significant promise due to its environmentally sustainable and cost-effective nature. Microbial communities are capable of degrading pesticide residues in polluted soil, thereby wielding a critical role in environmental remediation and soil revitalization. Therefore, it is essential to elucidate the mechanisms and corresponding metabolic processes underlying the microbial remediation of polluted soils.

Guest Editor

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