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Agroecology: Principles and Application for Efficient and Sustainable Agricultural Production

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Message from the Guest Editor

Intensification of world agricultural production and striving to maximize economic returns have brought important environmental and social consequences. Along with these consequences, climate change, volatile markets, and agroecosystem vulnerability to urbanization have become a challenge to producers and researchers in pursuit of developing highly-adaptable, productive, yet environmentally-friendly production practices. Agricultural crops and grasslands play a major role in many nations' economy. However, agricultural efficiency and productivity have been declining. There are a number of factors that contribute to this low efficiency, productivity, and sustainability. Examples include declining plant diversity, reduction of biodiversity, less adapted plant species, monoculture practices, soil degradation, especially soil mining, and rapid urbanization. Maintaining plant diversity with adapted species is important for the productivity, efficiency, and resiliency of agricultural production systems.

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Message from the Editor-in-Chief

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