

## Special Issue

# Locust and Grasshopper Management: Challenges and Innovations

### Message from the Guest Editors

Locusts and grasshoppers threaten global agriculture and livelihoods, causing severe economic, social, and environmental impacts. Their highly migratory nature and ability to form massive swarms make them a priority for national and international management efforts.

Recent major outbreaks, such as the 2020 desert locust crisis across Africa and Asia, highlight the urgent need for improved control strategies. Managing these pests is highly complex due to their rapid reproduction, climate change influences, and vast affected regions, compounded by political, financial, and security challenges. At the same time, chemical pesticides remain the dominant control method, and concerns about health, biodiversity, and sustainability drive interest in alternative solutions. This Special Issue will explore advances in locust management, including bio-ecology, monitoring technologies, forecasting models, and biopesticides. It will also address governance challenges and sustainable control strategies. It highlights recent research and innovations to support scientists, policymakers, and practitioners in developing more effective and sustainable locust management approaches.

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