

Biological control in botanic gardens contributes to a global sustainable development

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Protecting biological diversity in botanic gardens is the most effective practice to strengthen biodiversity conservation, reflecting human beings' level and determination to protect biodiversity to the greatest extent. Plant pest control is an integral part of plant protection and needs to be paid more attention to. It is vital to actively use green control measures that will primarily protect the biodiversity richness of botanic gardens instead of increasing the dose and frequency of pesticide application to control garden pests and diseases. Biological control is a crucial means of green control measures. Therefore, we should pay close attention to the research and application of natural enemy insects in biodiversity conservation in botanic gardens. In China, various botanic gardens use natural enemy insects to control pests yearly, which has achieved sound control effects. However, some problems exist in using natural enemy insects, such as lack of host specificity, data deficiency of accurate monitoring, lack of conservation sites for natural enemy hibernation in botanic gardens, etc. These unsolved important issues should continue to be addressed and overcome by experts in botanic gardens and related fields. In a word, biological control is an environmentally friendly measure worthy of advocating, with broad prospects for preventing and controlling garden pests and diseases. We wish that botanic gardens could become excellent demonstration sites for biological control and drive the whole society and community to control pests and diseases with the concept of ecological balance and the ideology of biodiversity conservation. We firmly believe that this will help the botanic gardens play an important role in the sustainable development of humanity.