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Grande salle + visioconférence

## **REGIONAL ADAPTATION OF INTEGRATED PEST MANAGEMENT TO CONTROL INVASIVE INSECTS**

par

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- 📍 Globalization is increasing the threat of invasive insects to ecosystems. Control efforts against the same pest species progressively take place across distant jurisdictions as Integrated Pest Management (IPM) programs or tactics developed in one region are adopted by another.
- 📍 This knowledge exchange speeds up responses and collaboration; however, transplanted IPM programs may overlook pre-existing or emerging differences between regions that may explain their varying success. These differences include biological variation in the pest system, environmental conditions, issues of scale and capacity of response, regulatory environments, and cultural context. We examine these factors in the adoption and outcomes of IPM programs against invasive forest insects, drawing from case studies and an online survey of experts.
- 📍 We propose an evaluation framework for regional adaptation of IPM programs in their adoption and implementation in new regions, and recommend strategies to reduce risks, and to maximize uptake, efficacy, and resilience under climate change. This framework also extends to invasive insects in non-forest systems, such as agriculture, as well as to native insect pests as their impacts and our valuation of natural resources continue to evolve.

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