



Contribution to the study of semiochemical slow release formulations

Development of flash chromatographic methods

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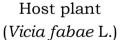
Introduction

Semiochemicals = communication signals between species (pheromones, kairomones, allomones, synomones)

Aphids tritrophic system







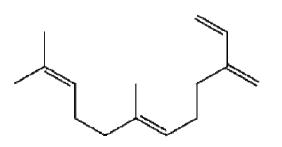
Phytophageous insect : aphids



balteatus De Geer

Parasitoid : Aphidius ervi Haliday

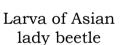
E-β-farnesene



Alarm pheromone

Aggregation of Harmonia axyridis





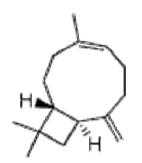


Adult eating aphids



Aggregated colony

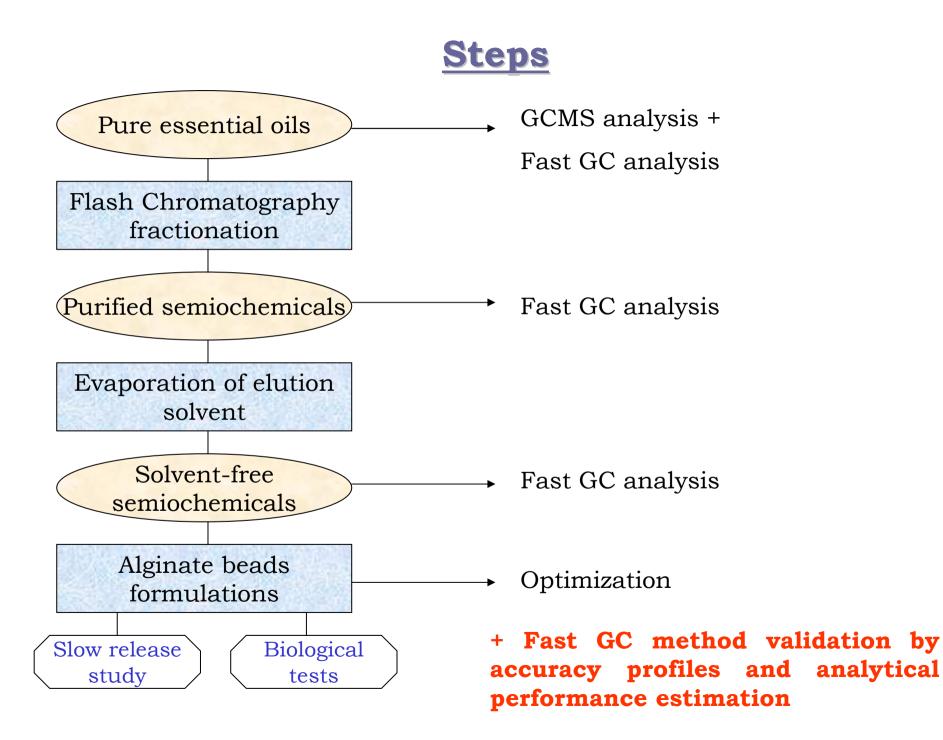
 β -caryophyllene



Aggregation pheromone

Goals of the research

- Isolation of semiochemicals from essential oils
- Formulations of compounds to attract predators and/or parasitoids of aphids on infested fields
 - Chemical ecology supported by analytical chemistry methodologies



For more details, please see the poster...