

# ATTRACTANCY OF A TOBACCO MOTH LURE FOR THREE PYRALID MOTH SPECIES

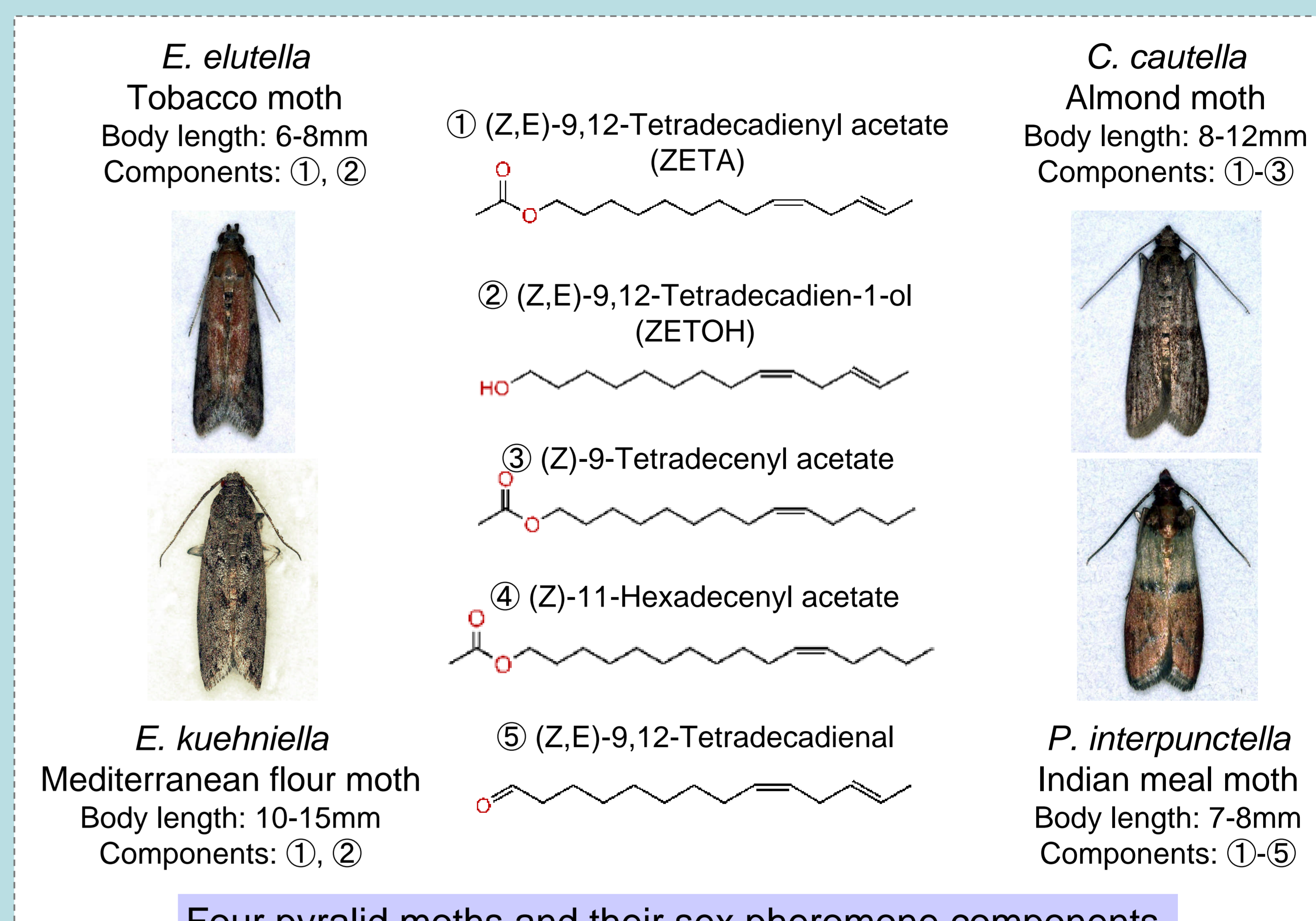
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## Summary

- A tobacco moth lure with ZETA and ZETOH attracted all the four pyralid moths.

## Introduction

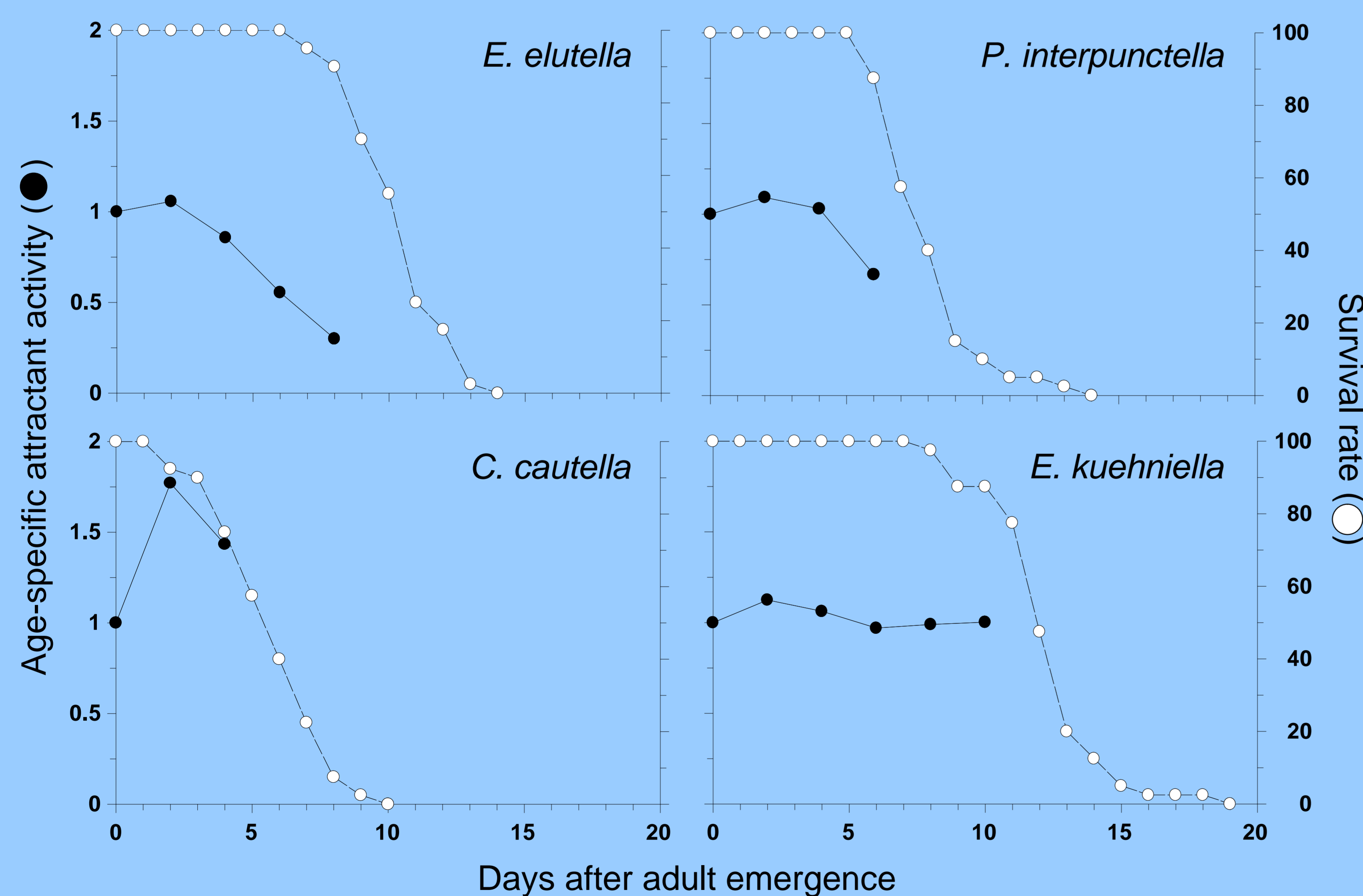
Tobacco moth, *Ephesia elutella*, (Lepidoptera: Pyralidae) uses two components, (Z,E)-9,12-tetradecadien-1-ol acetate (ZETA) and (Z,E)-9,12-tetradecadien-1-ol (ZETOH), as a sex pheromone. The two components are also used as sex pheromones of *Plodia interpunctella*, *Cadra cautella* and *Ephesia kuehniella*, which are species closely related to the tobacco moth. So, we examined the attractancy of a tobacco moth lure with ZETA and ZETOH (GACHON) for the four moths in a laboratory.



## Results

### 1) Age-specific attractant activity and survival rate

Unmated two-day-old males of all the four pyralid moths manifested the highest attractant activity.



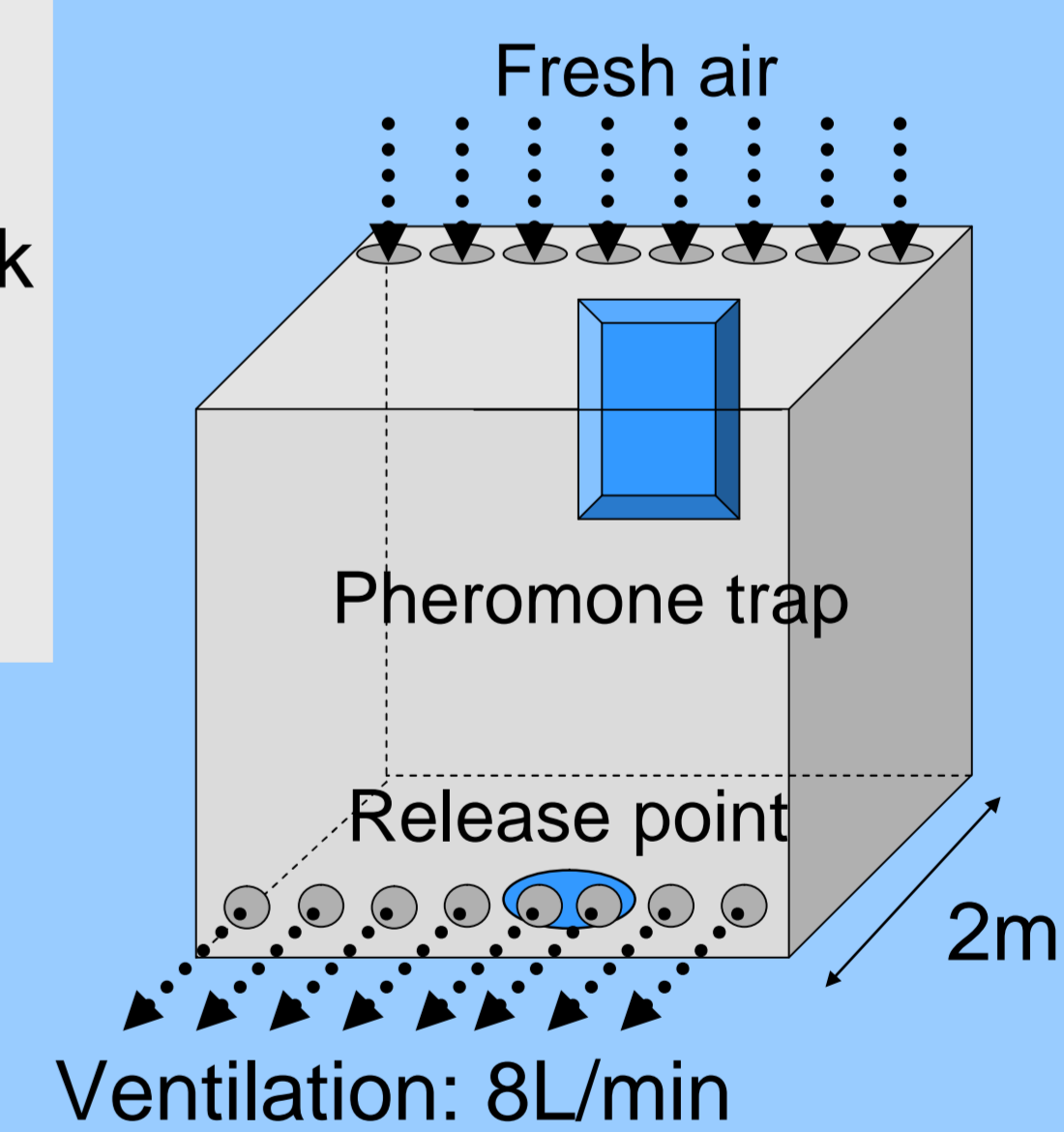
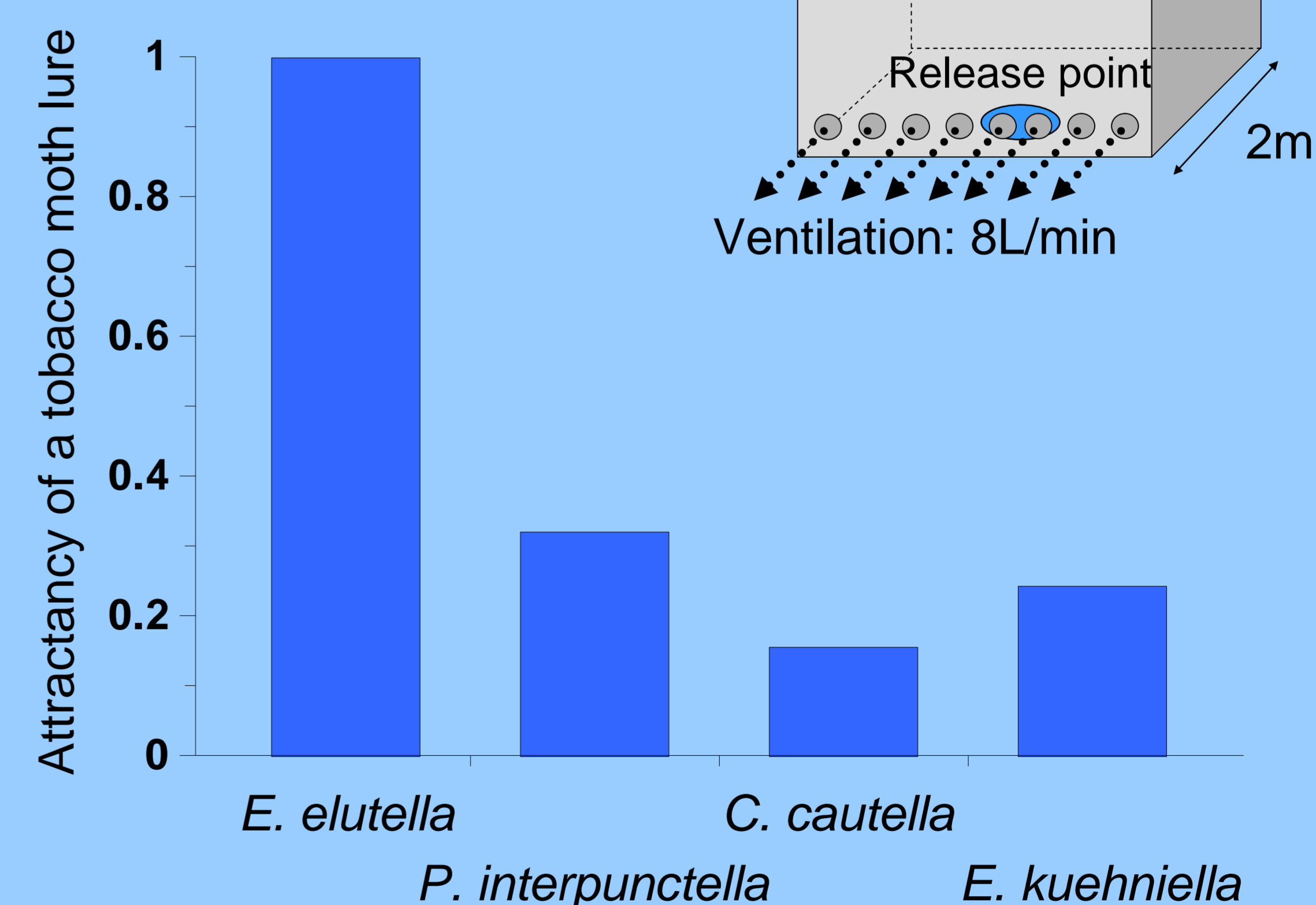
### 2) Attractancy of a tobacco moth lure

The attractancy for *E. elutella* was the highest, but the other moths were also attracted.

#### Experiment conditions

No. of individuals: 30 males  
Room conditions: 30°C in dark  
Replication: 4 times

The number of catches were counted in 24h after release.



## Conclusions

The current results indicated that the four pyralid moths were simultaneously caught by pheromone traps with ZETA and ZETOH when they inhabited the same factories and warehouses. In this case, it is necessary to identify moth species, and it is very important to collect information on the kind of pyralid moth present.