

# Forensic Flight: The Life of Crime Scene First Responders

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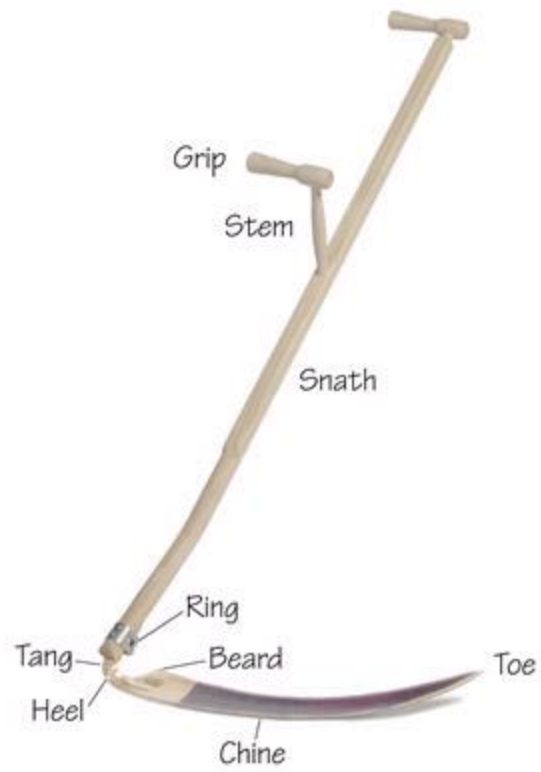


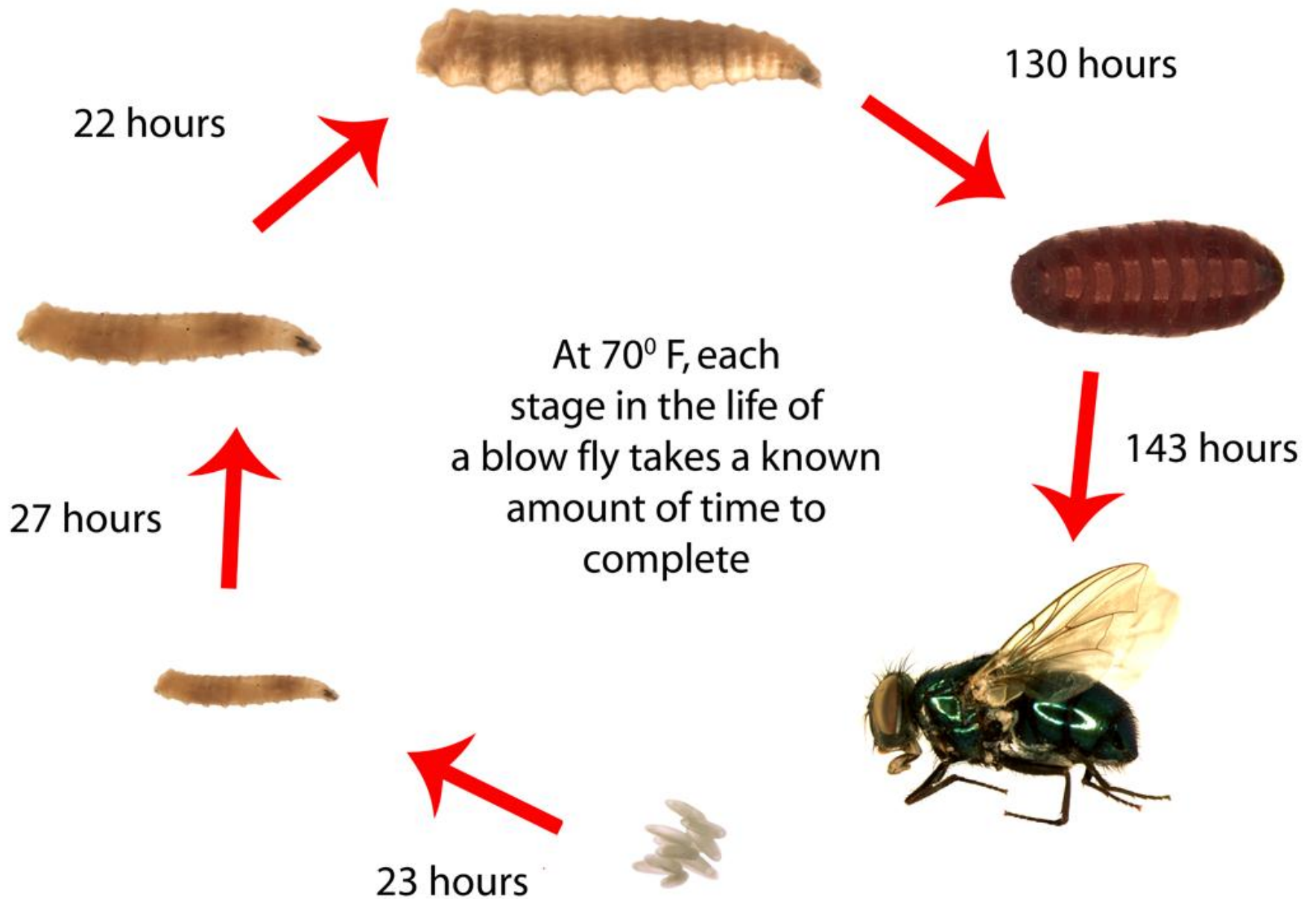
# Forensic Entomology

CALCULATION OF THE *POSTMORTEM INTERVAL* (PMI)

INFER MOVEMENT OF BODY POSTMORTEM

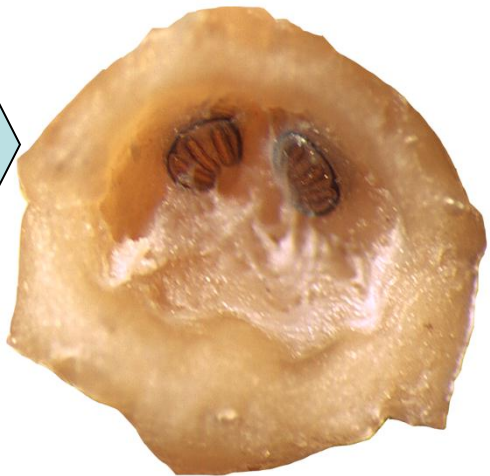




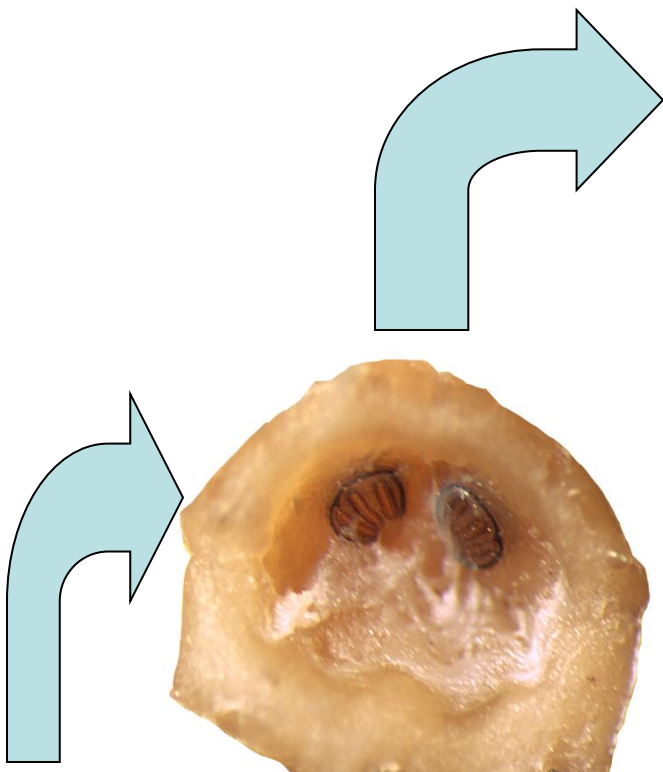




HOW OLD IS THIS MAGGOT?



Posterior spiracle with 3 slits





Cleveland Museum of  
**NATURAL HISTORY**

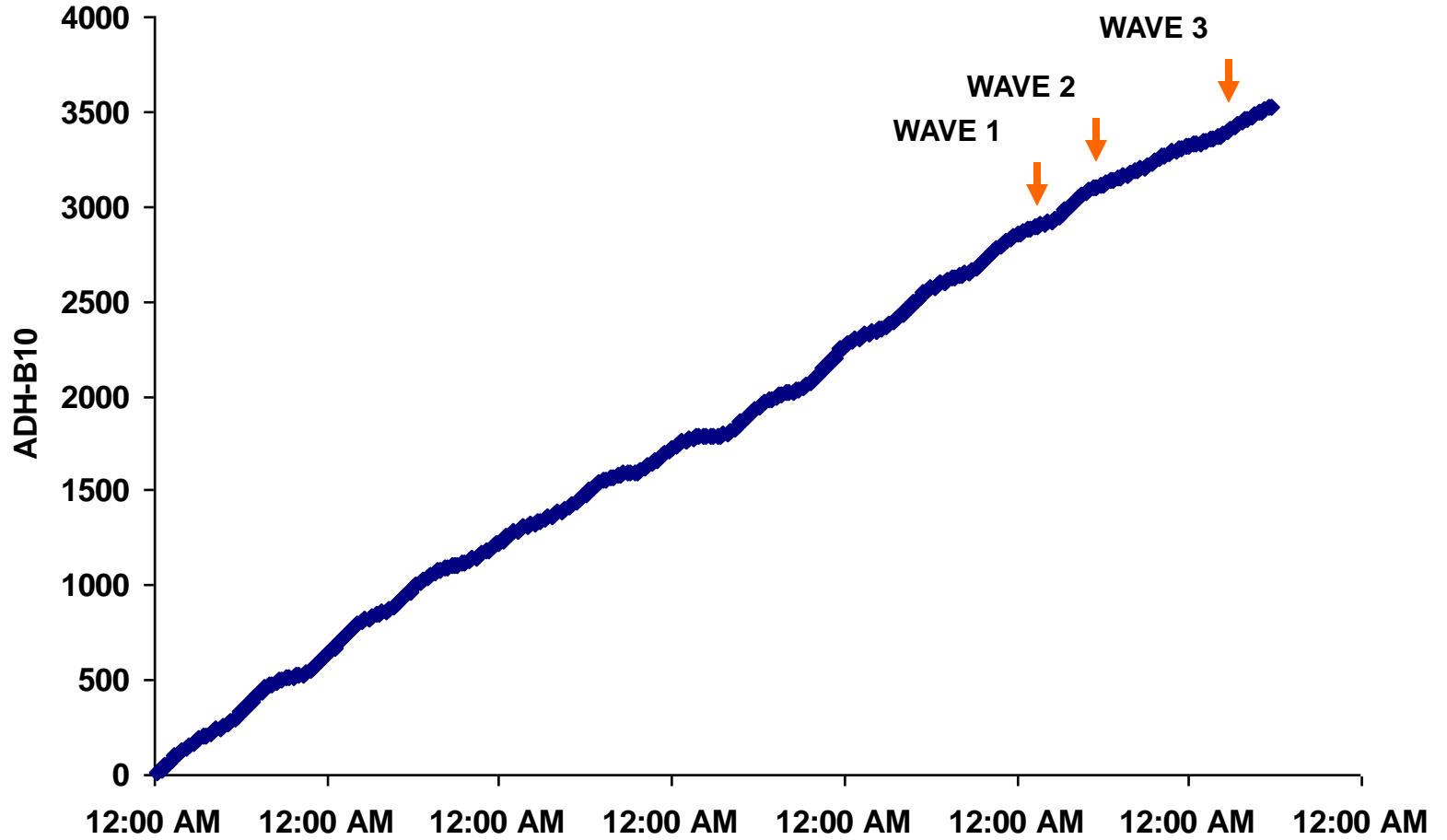
*Cochliomyia macellaria*





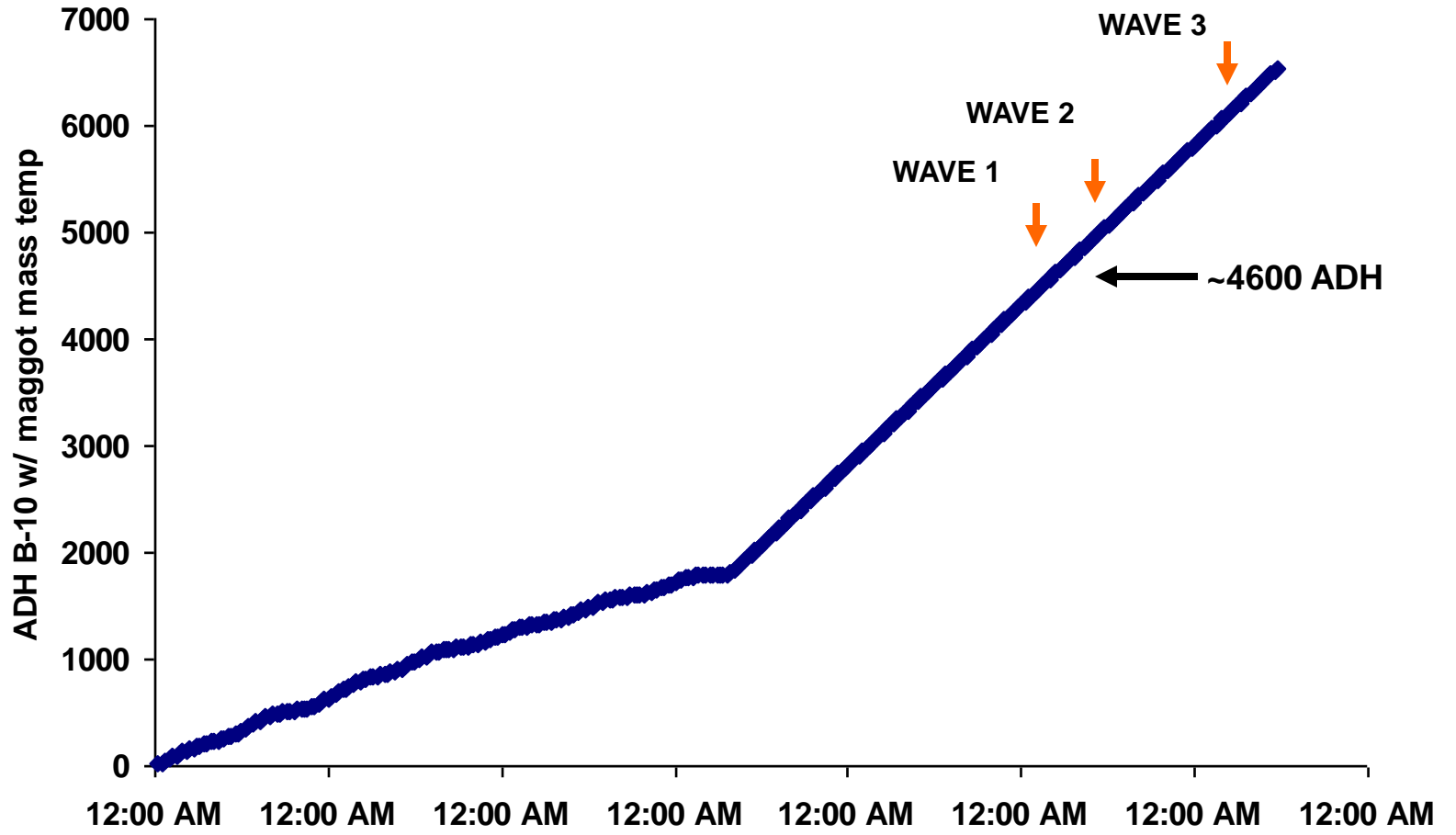


# ACCUMULATED DEGREE HOURS BASE 10

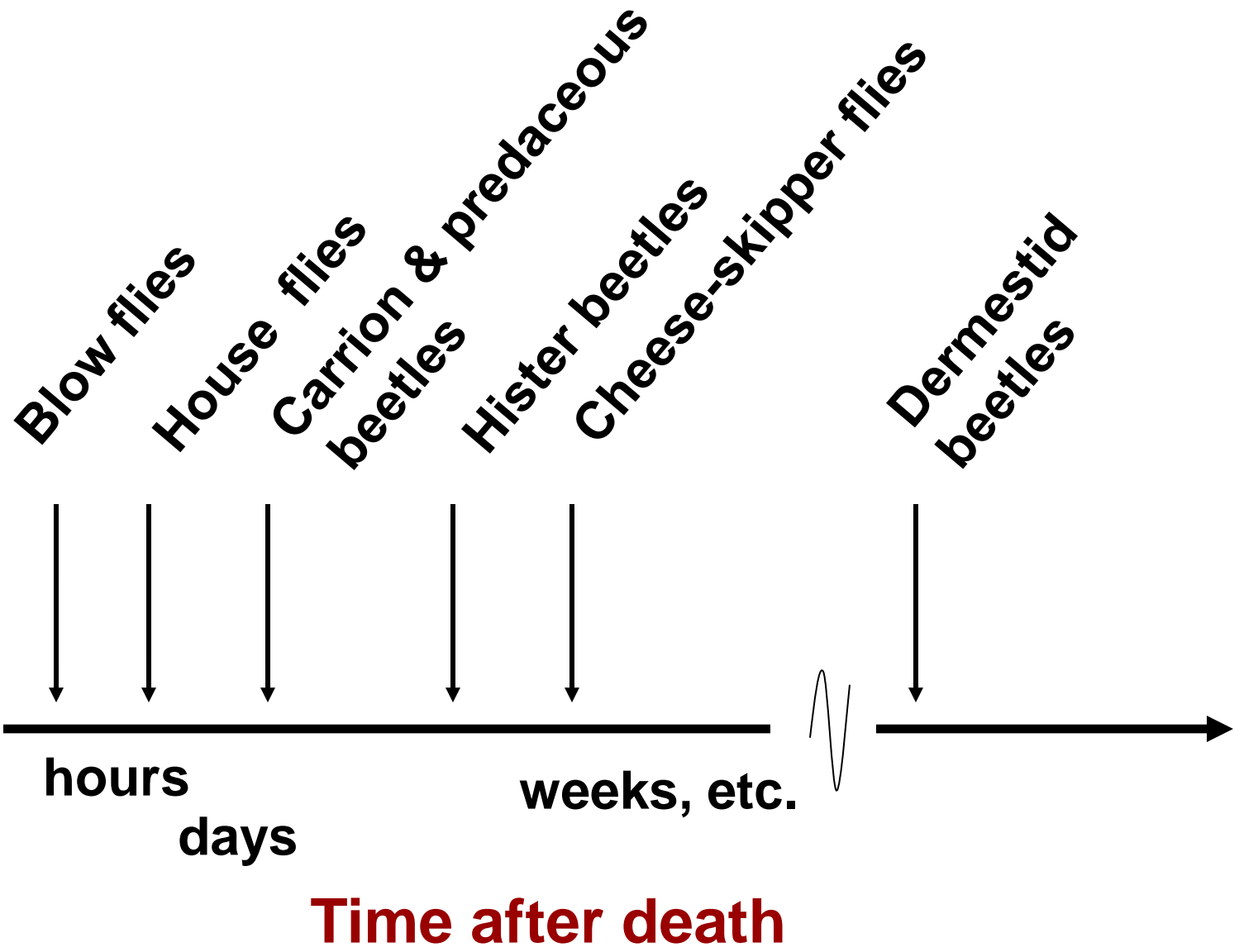


DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

# ACCUMULATED DEGREE HOURS BASE10



DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15







## **Maggot waves:**

### **FIRST** (day 11)

- green bottle fly (*Lucilia illustris*)  
~60% maggots / reared adults

black blow fly (*Phormia regina*)  
~40% maggots / reared adults

### **SECOND** (day 12)

- black blow fly (*Phormia regina*)  
= 96% maggots / reared adults

### **THIRD** (day 14)

- black blow fly (*Phormia regina*)  
> 99% maggots / reared adults

## Major players in decomposition (days 1-15):

- green bottle fly (first to oviposit)
- black blow fly (second to oviposit)



**Black blow fly**  
*Phormia regina*



**Green bottle fly**  
*Lucilia illustris*

# Forensic Entomology

**BODY OF HOMICIDE VICTIM NEAR SUMMIT LAKE  
SUMMER 2005**

**BODY RIDDLED WITH FLY MAGGOTS**



# **The death of Gabriel Feliciano**

**Body found 4 Oct. 2007**

**Near intersection of Ridge Road  
& Nagy Blvd.**





*Calliphora vicina*  
“Blue bottle fly”





