

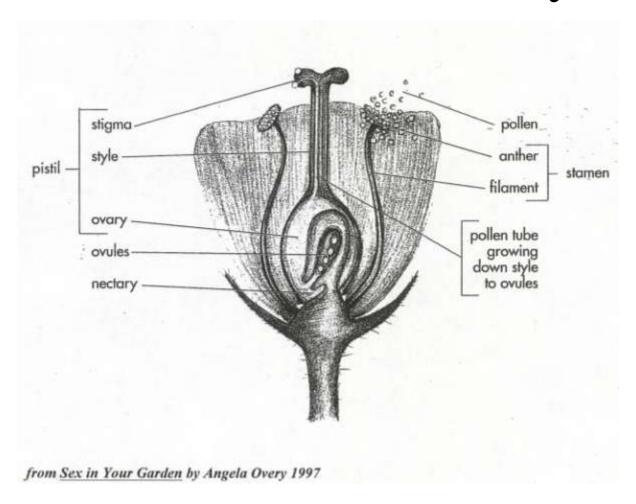


IN YOUR GARDEN





Basic Floral Anatomy













Reproductive Strategies

 Male and female reproductive organs together in the same flower

• Separate male and female flowers on the same plant

Plants try to prevent self pollination

Outcrossing Xenogamy





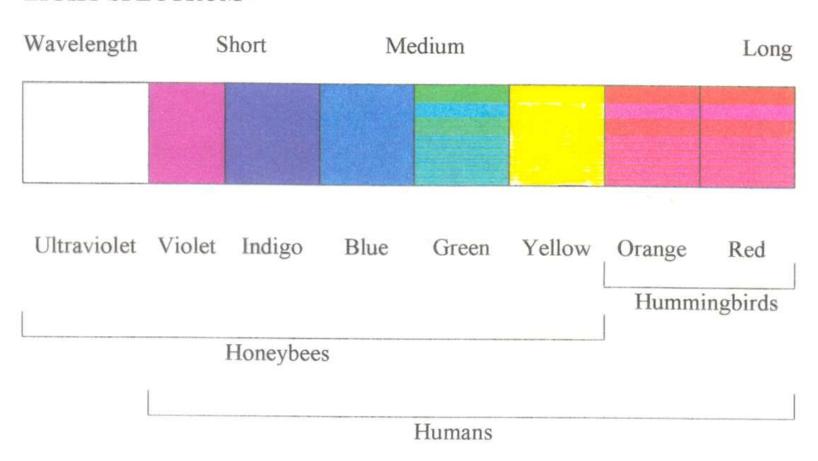
Between "Sibling" Crossing Geitonogamy





Color

LIGHT SPECTRUM





Pollinator Wavelength yellow, blue, purple, Bees uv Butterflies red, orange, yellow, pink

Flies green, lime, white, cream

Carrion flies maroon, brown

Hummingbirds red, orange, purple-red

Bats & Moths pale yellow, white





Color Changes





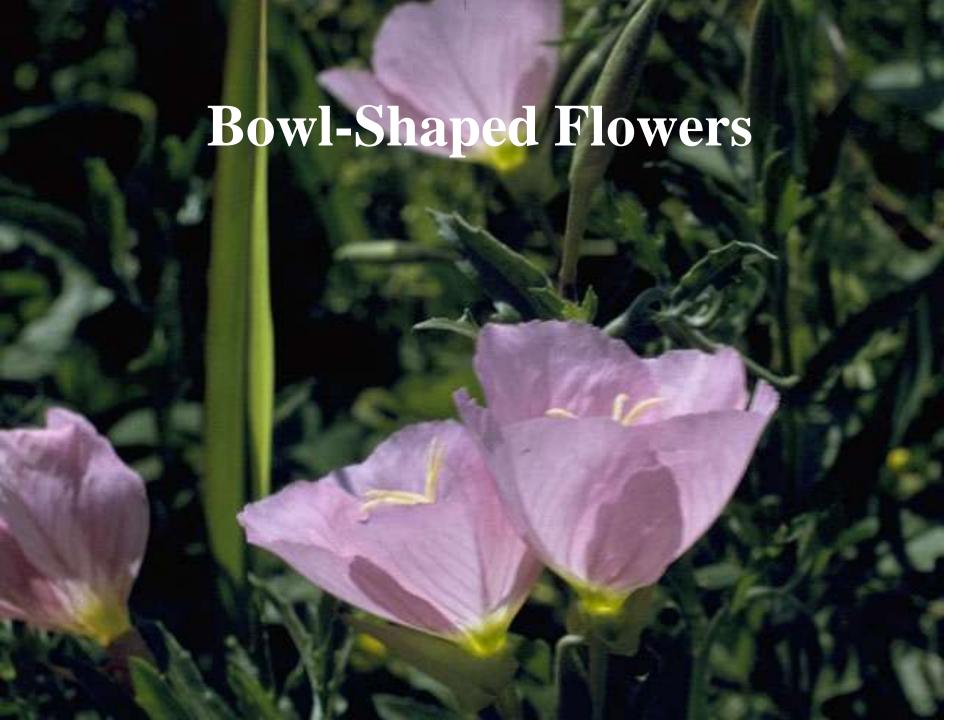




















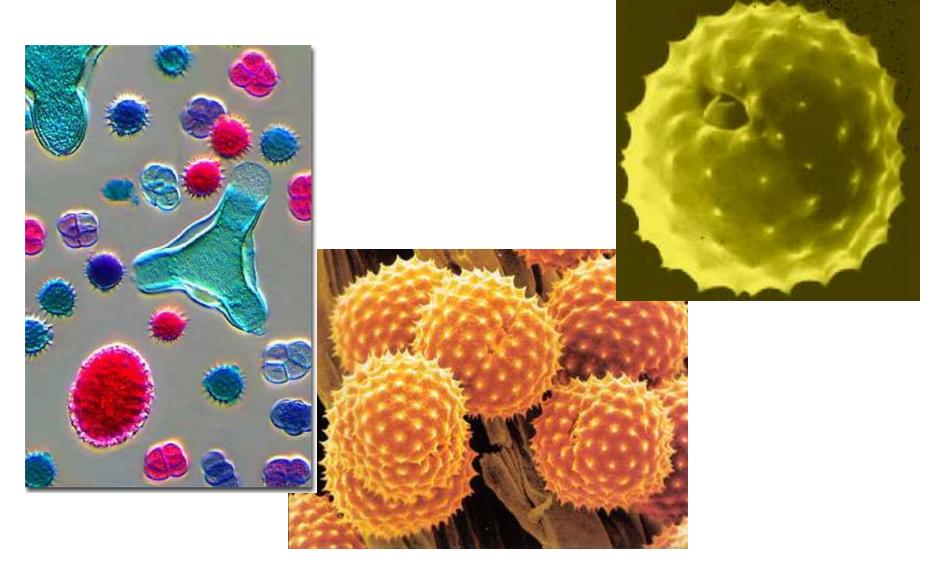








Pollen



To Bee or Not to Bee *Bee Pollination*

- Most important group of flower visitors
- Feed on nectar
- Collect pollen to feed their young



To Bee or Not to Bee

- Like bright showy flowers
- Blue, yellow, uv
- Nectar guides



All Aflutter Butterfly Pollination

- Guided to flowers by sight and smell
- Feed on nectar
- Prefer flowers with a fresh scent



All Aflutter

- Like yellow, red, orange, pink flowers
- Flowers with landing platforms
- Tubular flowers that will accommodate their long tongues



Things That Go Bump in the Night Moth Pollination

- Guided to flowers by sight and scent
- Feed on nectar
- Like flowers that are white or faintly colored because they stand out against the night sky



What's That Smell?! Fly Pollination

 Fly pollinated flowers look and smell like dead, rotting meat





Hmmmmm: Hummingbirds

- Flowers are tubular
- Produce lots of nectar
- Red, orange, purplered



Things That Go Bump in the Night 2 Bat Pollination

• Like white, dingy flowers

Musty smelling

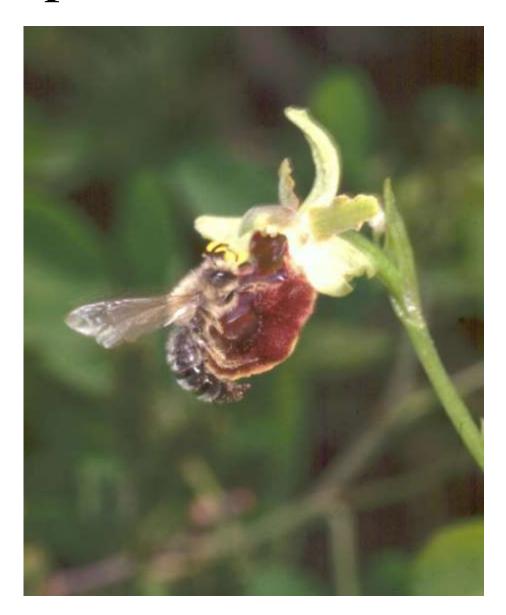
• Sturdy





Pseudocopulation

- Flowers mimic female bees and wasps
- Color, shape hairiness
- Emit odors that smell like females of the species
- Males mistake the flowers for females and try to mate with them



Pseudocopulation

- As the males try to mate with the "female," they pick up pollen packets
- These pollen packets are transferred to another flower when the males try to mate with it





Trapped Like a... Bee?



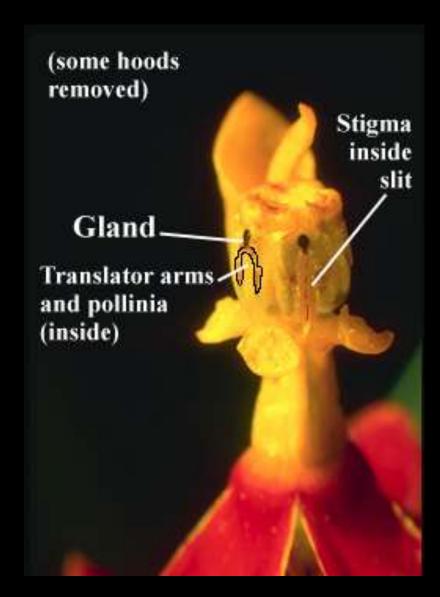


Murder Most Foul



Murder Most Foul





Final Thoughts



