# Communication

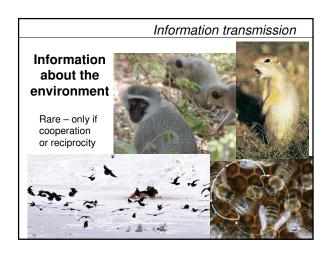
exchange of information between individuals or what else?

# Signals Cues A signal is a behavior or character evolved to transmit information Cues inadvertedly transmit information, but primarily have another function

#### Information transmission

# What information is transmitted?

- About the environment
- About own attributes (strength, age, etc.)
- · About own intentions







Communication

# Different categories of communication

- Communication between individuals that have common interests
- Communication between individuals with different interests

Common

**Different** interests interests





Communication

Communication

In most cases, individuals have different interests:

# Mind-reading & **Manipulation**



manipulative exaggerated loud

Communication (different interests)





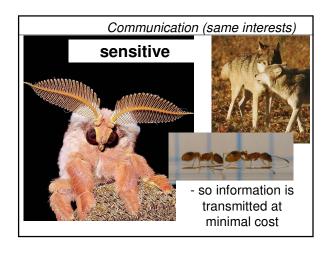
so the receiver will be manipulated into doing something

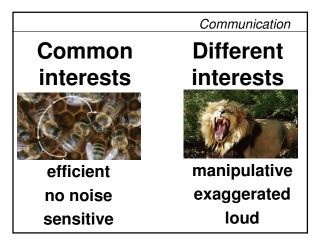
#### Evolution of communication

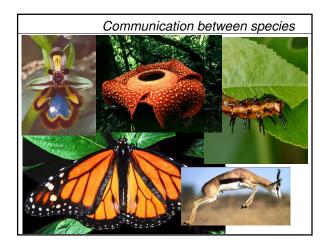
Signaller is exploiting a sensory bias on part of the receiver!

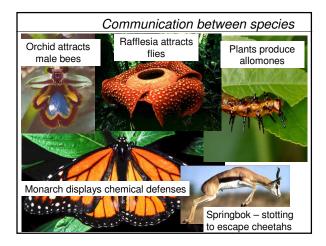
(i.e. receiver was already sensitive to cues given by signaller)











#### Communication between species

### **Chemical signals**

- Hormones between cells in one organism
- Pheromones between individuals of the same species
- <u>Allomones</u> between individuals of different species: benefit producer
- Kairomones between individuals of different species: benefit receiver



#### Summary

## Communication

- Information can be passed on by inadverted cues or specific signals
- If communication is between individuals with different interests, these often try to manipulate each other
- It is not always obvious why signals are honest