

Chapter 24 Questions

1. Define mutualism. What are the differences between interspecific cooperation and intraspecific cooperation?
2. Describe the 3 general classes of benefits that appear most common in mutualism? What are some of the costs of mutualism?
3. Why would the net costs and benefits of mutualism vary so much across space and time?
4. Why should mutualisms be easily invasible by cheaters? What hypotheses have been proposed to explain how mutualisms persist evolutionarily?
5. How are fig and yucca pollinator mutualisms similar and what are their differences?

Questions from Ruby and McFall-Ngai (1992)

1. What benefits do *E. scolopes* and *V. fischeri* gain from their mutualism?
2. How may the *E. scolopes*- *V. fischeri* mutualism be important in the normal developmental biology of each species.