

Evolutionary ecology of social and sexual systems: Crustaceans as model organisms

Editors: J. Emmett Duffy and Martin Thiel

PART I. CONCEPTUAL BACKGROUND AND CONTEXT

1. M. Thiel & J.E. Duffy The behavioral ecology of crustaceans: a primer in taxonomy, morphology and biology
2. S.M. Shuster The evolution of crustacean mating systems
3. J. Neigel & B. Mahon Molecular approaches in crustacean evolutionary ecology

PART II. COMMUNICATION

4. J. Herberholz The neural basis of communication in crustaceans
5. P.A. Moore Agonistic behavior in freshwater crayfish: The influence of intrinsic and extrinsic factors on aggressive encounters and dominance
6. J. Atema & M.A. Steinbach Chemical communication and social behavior of the lobster, *Homarus americanus*, and other decapod Crustacea

PART III. MATING AND COURTSHIP

7. G.A. Wellborn & R.D. Cothran Ecology and evolution of mating behavior in freshwater amphipods
8. V. Jormalainen Mating strategies in isopods—from mate monopolization to conflicts
9. B. Sainte-Marie Sperm demand and allocation in decapod crustaceans
10. J.H. Christy Predation and the reproductive behavior of fiddler crabs (*Uca*)
11. R.T. Bauer Hermaphroditism in caridean shrimps: mating systems, sociobiology, and evolution, with special reference to *Lysmata*
12. J.A. Baeza & M. Thiel The mating system of symbiotic crustaceans: A conceptual model based on optimality and ecological constraints

PART IV. SOCIAL SYSTEMS

13. M.J. Childress Comparative sociobiology of spiny lobsters
14. M. Thiel Social behavior of parent-offspring groups in crustaceans
15. A.M.M. Richardson Behavioral ecology of semi-terrestrial crayfish
16. K.E. Linsenmair Sociobiology of terrestrial isopods
17. R. Diesel & C. Schubart The social breeding system of the Jamaican bromeliad crab *Metopaulias depressus*
18. J.E. Duffy Ecology and evolution of eusociality in sponge-dwelling shrimp

PART V. SYNTHESIS

19. T.C. van Son & M. Thiel Anthropogenic impacts and their effects on the behavior of aquatic crustaceans
20. B.J. Crespi Comparative evolutionary ecology of social and sexual systems: Water-breathing insects come of age
21. J.E. Duffy & M. Thiel Sexual and social behavior of Crustacea: A way forward