



Sex, Size, and Gender Roles is the first book to investigate the genetic, developmental, and physiological basis of sexual size dimorphism found within and among the major taxonomic groups of animals. Carefully edited by a team of world-renowned specialists in the field to ensure a coherence of style and approach between chapters, it presents a compendium of studies into the evolution, adaptive significance, and developmental basis of gender differences in body size and morphology. Adaptive hypotheses allude to gender-specific reproductive roles and associated differences in trophic ecologies, life history strategies, and sexual selection. This 'adaptationist' approach is balanced by more mechanistic studies of the genetic, developmental, and physiological basis of sexual size dimorphism to provide a comprehensive and authoritative overview of the subject. Throughout the volume the emphasis is on sexual dimorphism in overall size; however, the scope of enquiry encompasses gender differences in body shape, the size and structure of secondary sexual characteristics, patterns of growth (ontogeny), and patterns of gene regulation.

This advanced, research level text is suitable for graduate level students and researchers in the fields of evolutionary biology, behavioral ecology, physiology, developmental biology, and genetics. It will also be of relevance and use to non-biologists from fields such as anthropology and gender studies.

'This book contains more than most will want to know about the evolution, development, and proximate control of phenotypic difference in the sexes. What I really like about it though, is that it makes clear that there is so much more to do. It will be the citation classic of the future for pointing the way. It is this promise and pithiness that made me admire and savor this book ...'

Evolution

'The volume represents a veritable toolbox for students – molecular techniques, phylogenetic comparative methods, and well-designed field and laboratory experiments are all generously represented. I found this to be an excellent assemblage of contributions that will act as a guiding force in future studies of SSD.'

The Quarterly Review of Biology

Jacket photographs (from left to right): male and female water striders, *Aquarius remigis* © Daphne Fairbairn and Graham Roff; male and female Barrow's Goldeneye, *Bucephala islandica* © Mark Chappell; male with a harem of female Northern Fur Seals, *Callorhinus ursinus* © Mark Chappell.
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