

Sperm Biology: An Evolutionary Perspective

Edited by
Tim R Birkhead, David J Hosken, and Scott Pitnick

Table of Contents

1. Three centuries of sperm research
Tim R. Birkhead and Robert Montgomerie
2. The evolutionary origin and maintenance of sperm: selection for a small, motile gamete mating type
C(Kate). M. Lessells, Rhonda R. Snook and David J. Hosken
3. Sperm morphological diversity
Scott Pitnick, David J. Hosken and Tim R. Birkhead
4. The evolution of spermatogenesis
Helen White-Cooper, Karen Doggett and Ronald E. Ellis
5. Sperm motility and energetics
Jim Cummins
6. Sperm competition and sperm phenotype
Tommaso Pizzari and Geoff A. Parker
7. Ejaculate-female and sperm-female interactions
Scott Pitnick, Mariana F. Wolfner and Susan S. Suarez
8. The evolutionary significance of variation in sperm-egg interactions
Timothy L. Karr, William J. Swanson and Rhonda R. Snook
9. Sperm and speciation
Daniel J. Howard, Stephen R. Palumbi, Leanna M. Birge and Mollie K. Manier
10. Evolutionary quantitative genetics of sperm
Leigh W. Simmons and Allen J. Moore
11. Sperm proteomics and genomics
Steve Dorus and Timothy L. Karr
12. Drive and sperm: the evolution and genetics of male meiotic drive
Daven Presgraves
13. Unusual gametic and genetic systems
Benjamin B. Normark
14. Sperm and conservation
E.R.S. Roldan and Montserrat Gomendio
15. Sperm, human fertility and society
Allan A. Pacey