

Contents

List of Abbreviations vi

- 1 **Introduction** 1
- 2 **Basic Physiology** 5
- 3 **Basic Semen Examination** 34
- 4 **Extended Semen Analysis** 81
- 5 **Sperm DNA** 114
- 6 **Computer-Aided Sperm Analysis** 130
- 7 **Sperm Function Tests** 155
- 8 **Tests of Sperm-Cervical Mucus Interaction** 175
- 9 **Sperm Preparation** 194
- 10 **Sperm Cryopreservation** 218
- 11 **Preparation of Surgically Retrieved Spermatozoa** 256
- 12 **Quality Management and Accreditation** 262
- 13 **Risk Management** 290
- 14 **Reproductive Toxicology** 303
- 15 **Andrology Laboratory Safety** 307

Appendices

- 1 *Interpreting Andrology Laboratory Results* 316
- 2 *Equipment Required for a Basic Andrology Laboratory* 333
- 3 *Home Testing* 341
- 4 *Example Andrology Laboratory Forms* 344
- 5 *Comparison of Replicate Counts* 352
- Index* 357