Contents

1. **Semen Analysis and Sperm Preparation** 1
   Hetal Shukla, Deven Patel, Preeti Shah

2. **Cryopreservation of Semen Samples** 27
   Pallavi Menon, Carol Rubina D'Souza

3. **New Techniques for Sperm Selection in the Andrology Laboratory** 48
   Cristina González-Ravina, Alberto Pacheco, Irene Rubio Palacios, Javier Herrero Zapata

4. **From the Gamete to the Zygote** 63
   Alberto Tejera, Belén Aparicio, Mª José de los Santos

5. **Embryo Culture** 78
   Deven Patel, Preeti Shah, Aditi Kotdawala

6. **Embryo Selection and Transfer** 97
   Anisha Uberoi, Himani Agnihotri

7. **Oocyte and Embryo Vitrification** 123
   Ana Cobo, Aila Coello

8. **Embryo Biopsy and Tubing** 139
   Rishina Bansal, Shridutt Gaitonde, Navin Desai

9. **Time-lapse Imaging: A New Technology for Embryo Development** 157
   Carmela Albert, Pilar Gámiz, Natalia Basile, Marcos Meseguer

10. **Design, Equipment and Personnel Management** 181
    Irene Rubio Palacios, Javier Herrero Zapata

11. **Future Perspectives: Developing Gametes from Stem Cells** 201
    José V Medrano, Carlos Simón

Index 217