Contents

1. **Introduction** 1
   Sapna Gandhi, Chand Mohammed, Keshav Malhotra
2. **Assisted Reproductive Technology Laboratory Designing and Work Station** 7
   Ajay Srivastava, Kruthi KB
3. **Staffing and Qualifications of the ART Team** 13
   Sweta Gupta
4. **SOPs and Policy Manual Writing: Why are they Important and How to Implement in Your Laboratory?** 19
   Shreyas Padgaonkar
5. **Data Management in the ART Laboratory: Requirements, Solutions and Benefits** 24
   Sanjeev Maheshwari
6. **Implementing a Quality Program in Your Laboratory** 29
   Alex Steinleitner
7. **Troubleshooting** 40
   Keshav Malhotra
8. **Semen Analysis** 45
   Charudutt Joshi
9. **Different Semen Washing Techniques** 55
   Pratixa Joshi
10. **Sperm DNA Fragmentation Analysis** 60
    Himanshu Patel
11. **Clinical Implications of DNA Fragmentation Test** 64
    Laxmi Shrikhande
12. **Reactive Oxygen Species (ROS) Determination** 67
    Vidisha Bhatt
13. **Semen Freezing** 69
    Komal Patel
14. **Incubators in ART** 72
    Anjali Awasthi Joshi
15. **Handling of Gametes and Embryos** 84
    Anjali Awasthi Joshi
16. **Embryo Transfer** 90
    Sarita Sukhija, Bhavana Mittal