Table of Contents

Preface

- 1. Principles of Medical Genetics and Genomics
- 2. Non-Mendelian Genetics
- 3. Principles of Genetic Counseling
- 4. Cytogenetics: Part 1, General Concepts and Aneuploid Conditions
- 5. Cytogenetics: Part 2, Structural Rearrangements and Reproductive Impact
- 6. Molecular Genetics
- 7. Carrier Screening
- 8. Serum and Ultrasound Based Screening Tests for Aneuploidy
- 9. Cell Free DNA Screening
- 10. Ultrasound Markers for Aneuploidy
- 11. Genetic Evaluation of Fetal Sonographic Abnormalities
- 12. Chromosomal Microarray Analysis
- 13. Exome and Genome Sequencing
- 14. Prenatal Diagnostic Testing
- 15. Preimplantation Genetic Screening and Diagnosis
- 16. Fetal Treatment of Genetic Disorders