Contents

Contributors *ix*
Forewords *xi, xiii*
Preface *xv*
Acknowledgments *xvii*

Section 1: Incretins: An Introduction

1. **History of Incretins** **3**
Shivaprasad C

2. **Physiology of Incretins** **9**
Shivaprasad C

3. **Incretins Hormones: Effects Beyond Glycemic Control** **18**
Shivaprasad C

Section 2: Clinical Pharmacology of GLP-1 Analogues

4. **GLP-1 Analogues: An Overview** **29**
Sanjay Kalra

5. **GLP-1 Analogues: Monotherapy** **35**
Ravi Ghanghas, Sanjay Kalra

6. **GLP-1 Analogues: Combination Therapy** **42**
Girish T Raparti, Vageesh S Ayyar

7. **GLP-1 Analogues and Insulin Combination** **50**
Vishal Gupta

Section 3: Clinical Pharmacology of DPP-4 Inhibitors

8. **DPP-4 Inhibitors: An Overview** **61**
Jubbin J Jacob, Navjot Singh

9. **DPP-4 Inhibitors: Monotherapy** **74**
Navjot Singh, Jubbin J Jacob

10. **DPP-4 Inhibitors: Combination Therapy** **85**
Navjot Singh, Jubbin J Jacob

Section 4: Pleiotropic Effects of Incretins

11. Cardiovascular Effects of Incretins **103**
Vishal Gupta

12. Neurological Effects of Incretins **113**
Vishal Gupta

13. Gastrointestinal and Hepatobiliary Effects of Incretins **117**
Vishal Gupta

14. Incretins and Insulin Sensitivity **123**
Vishal Gupta

15. Incretins and Obesity **131**
Vishal Gupta

Section 5: Comparative Pharmacology

16. GLP-1 Analogues vs. DPP-4 Inhibitors **139**
Sakthivel Sivasubramanian

17. Choosing a GLP-1 Analogue **146**
Suyog Jain, Sanjay Kalra

18. Choosing a DPP-4 Inhibitor **154**
Vishal Gupta

19. Future of Incretin Therapies **163**
Ambika G Unnikrishnan, Sanjay Kalra

Index *167*