

Contents

List of Contributors vii

Section I Hormones in the Physiology and Pharmacology of Pregnancy

- 1 The Neuroendocrinology of Pregnancy 1
Silvia Vannuccini, Irene Paternò, John R. G. Challis, and Felice Petraglia
- 2 The Placenta as an Endocrine Organ/Placental Endocrinology 13
Roger Smith
- 3 The Role of Oxytocin in Pregnancy 20
Kiichiro Furuya and Richard Ivell
- 4 The Role of Human Chorionic Gonadotropin in Pregnancy 33
Keiichi Kumashawa and Yutaka Osuga
- 5 The Role of Estrogens in Pregnancy 42
Nadia Berkane, Yveline Ansaldi, and Nicola Pluchino
- 6 The Role of Progesterone in Pregnancy 50
Sam Mesiano
- 7 Hormones and Cardiovascular Systems in Pregnancy 61
Daniele Farsetti and Herbert Valensise

Section II Hormones and Gestational Disorders

- 8 Prolactin, Prolactinoma, and Pregnancy 73
Dominique Maiter and Philippe Chanson
- 9 Growth Hormone Disorders in Pregnancy 87
Marie Helene Schernthaner-Reiter, Greisa Vila, Peter Wolf, and Anton Luger

- 10 Gestational Diabetes 91
Serena Ottanelli, Federico Mecacci, and Moshe Hod
- 11 Obesity and Metabolic Syndrome in Pregnancy 107
Kent L. R. Thornburg, Amy M. Valent, Nicole E. Marshall, and Jonathan Q. Purnell
- 12 Hormones and Pre-term Birth 120
Emily M. Frier, Sarah J. Stock, Stephen Lye, and Oksana Shynlova
- 13 Thyroid Dysfunction in Pregnancy and Postpartum 140
Luigi Bartalena, Eliana Piantanida, Adriana Lai, and Maria Laura Tanda
- 14 The Role of Hormones in Hypertensive Disorders of Pregnancy 151
Leslie Myatt and James M. Roberts
- 15 Adrenal Disease in Pregnancy 164
Jack Lockett, Warrick Inder, David H. McIntyre, Helen L. Barrett, Sailesh Kumar, and Vicki Lee Clifton
- 16 Hormones and Multiple Pregnancy 183
Viola Seravalli, Noemi Strambi, and Mariarosaria Di Tommaso
- 17 Hormones in Pregnancy and the Developmental Origins of Health and Disease 189
John R. G. Challis, Felice Petraglia, Deborah M. Sloboda, Victor K. M. Han, and Judith G. Hall

Index 199