

# CONTENTS

<i>Preface to Fourth Edition</i>	<i>page vii</i>
<i>Acknowledgements</i>	<i>ix</i>
I      INTRODUCTORY CONCEPTS	I
II     FORMATION, MATURATION AND STRUCTURE OF THE GERM CELLS AND OVULATION	14
III    THE FEMALE GENITAL TRACT	35
IV    FERTILIZATION, CLEAVAGE AND FORMATION OF THE GERM LAYERS	54
V     THE IMPLANTATION OF THE BLASTOCYST AND THE DEVELOPMENT OF THE FETAL MEMBRANES, PLACENTA AND DECIDUA	83
VI    PHYSIOLOGY OF THE PLACENTA	132
VII   THE FATE OF THE GERM LAYERS AND THE FORMATION OF THE ESSENTIAL (PRIMARY) TISSUES INCLUDING THE BLOOD	162
VIII   GROWTH OF THE EMBRYO AND FETUS; DEVELOP- MENT OF EXTERNAL FORM; ESTIMATION OF EMBRYONIC AND FETAL AGE	174
IX    DETERMINATION, DIFFERENTIATION, THE OR- GANIZER MECHANISM, ABNORMAL DEVELOP- MENT AND TWINNING	192
X     CARDIO-VASCULAR SYSTEM	228
XI    ALIMENTARY AND RESPIRATORY SYSTEMS, PLEURAL AND PERITONEAL CAVITIES	291

## CONTENTS

XII	THE UROGENITAL SYSTEM	377
XIII	NERVOUS SYSTEM	437
XIV	SKELETAL SYSTEM	526
XV	MUSCLE AND FASCIA	548
XVI	INTEGUMENTARY SYSTEM	566
XVII	COMPARATIVE VERTEBRATE DEVELOPMENT	577
	<i>Index</i>	621