

FUNCTIONS OF THE PLACENTA	234
TRANSPORT AND METABOLISM	234
Different types of placentas	234
Transport of respiratory gases	240
Oxygen transfer	240
Transport and metabolism of carbohydrates	240
Glucose transfer	240
Transport and metabolism of amino acids	241
Transport and metabolism of lipids	242
Transfer of water, inorganic ions, minerals and vitamins	243
Sodium	243
Other ions	243
Water transfer	244
ENDOCRINE FUNCTIONS OF THE PLACENTA	244
Hypophyseal hormones	245
Human chorionic gonadotropin (hCG)	245
Human chorionic somatomammotropin (hCS)	245
Prolactin (PRL)	246
Other pituitary-like peptides	246
$\beta$ -endorphin	246
Steroidogenesis in the maternal-fetal-placental unit	246
Progesterone	247
Estrogens	247
Growth hormone	248
Placental peptides similar to hypothalamic factors	248
Human chorionic gonadotropin releasing factor (GnRH)	248
Chorionic thyrotropin releasing hormone (chorionic TRH)	248
Chorionic somatostatin (CS)	249
Chorionic corticotropin releasing hormone (chorionic CRH)	249
Oxytocin	249
Other chorionic cytokines, growth factors, and peptides	249
Leptin	250
Growth factors	250
Relaxin	250
Inhibin and activin	251
Vasoactive peptides	251

Eicosanoids and prostanoids	251
PROTECTIVE FUNCTIONS OF THE PLACENTA	253