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 ""3.4.1 Hormonal Regulation of Vitellogenesis""""3.4.2 Vitellogenin Pathway""; ""3.4.3 Vitronectin-like Protein in Amphibian Yolk Platelets""; ""3.5 POSTVITELLOGENESIS OR MATURITY""; ""3.5.1 General Morphology of Full Grown Oocyte""; ""3.5.2 Oocyte Metabolism""; ""3.5.3 Oocyte Maturation""; ""3.5.4 Regulation of the Meiotic Cycle""; ""3.6 OOCYTE-SOMATIC CELL INTERACTIONS DURING OOGENESIS ""; ""3.6.1 Cell Interactions during Previtellogenesis""; ""3.6.1.1. Vitelline Envelope Formation""; ""3.6.2 Cell Interactions during Vitellogenesis""; ""3.6.3 Cell Interactions during Postvitellogenesis""  
 ""3.7 SUMMARY""""3.8 ACKNOWLEDGEMENTS""; ""3.9 LITERATURE CITED""; ""4. Endocrinology of Reproduction""; ""4.1 INTRODUCTION""; ""4.2. PINEAL GLAND""; ""4.3 HYPOTHALAMUS""; ""4.4 PITUITARY GLAND""; ""4.5 OVARIAN HORMONES""; ""4.5.1 Gonadal Steroids""; ""4.5.2 Gonadal Peptidic Hormones""; ""4.6 CONTROL OF OOCYTE MATURATION""; ""4.7 OVULATION CONTROL""; ""4.8 ANURAN OVIDUCT""; ""4.8.1 Organization and Function""; ""4.8.2 Annual Oviduct Cycle. Its Connection with the Ovarian Cycle and with the Circulating Sex Steroid Hormones""  
 ""4.8.3 Hormonal Regulation of the Functional Morphology of Anuran Oviduct""""4.9 SERUM BINDING PROTEIN""; ""4.10 STEROID RECEPTORS""; ""4.11 CONCLUSIONS""; ""4.12 ACKNOWLEDGEMENTS""; ""4.13 LITERATURE CITED""; ""5. Spermatogenesis and the Mature Spermatozoon: Form, Function and Phylogenetic Implications""; ""5.1 INTRODUCTION""; ""5.2 SPERMATOGENESIS""; ""5.3 MORPHOLOGY OF THE MATURE SPERMATOZOON ""; ""5.3.1 Introduction""; ""5.3.2 Suborder ""Archaeobatrachia""""; ""5.3.3 Superfamily ""Discoglossoidea""""; ""5.3.4 Family Ascaphidae""; ""5.3.6 Family Discoglossidae""  
 ""5.3.7 Family Leiopelmatidae""

Sommario/riassunto

This book covers the major aspects of phylogeny and reproductive biology of frogs in chapters written by major authorities. Topics treated are: anuran phylogeny, classification and reproductive modes; gross anatomy of the reproductive system; oogenesis; endocrinology of reproduction; spermatogenesis and the mature spermatozoon; breeding glands; internal fertilization and sperm storage, parental care; general development; and molecular development.