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Chromosomes"; "3.3.2 Oocyte Localization of Maternal mRNAs"; "3.3.3 Amplified Nucleoli"; "3.3.4 The Nuclear Envelope"; "3.4 VITELLOGENESIS"; "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 Discoglossioidea"; "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.