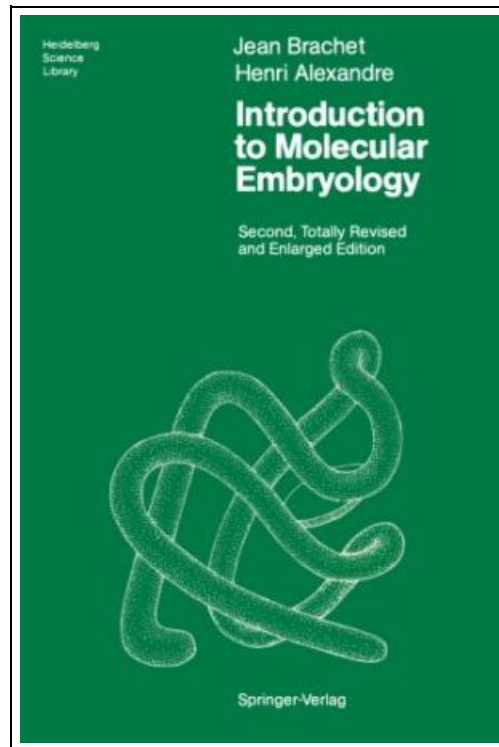


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Reviews

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Condition: New. Publisher/Verlag: Springer, Berlin | Nearly 10 years have elapsed since I finished writing the first edition of Introduction to Molecular Embryology. During this period, molecular embryology has made great strides forward, but without undergoing a major revolution; therefore, the general philosophy and outline of the book have remained almost unchanged. However, all the chapters had to be almost completely rewritten in order to introduce new facts and to eliminate findings which have lost interest or have been disproved. There was a major gap in the first edition of this book: very little was said about mammalian eggs despite their obvious interest for mankind. Research on mammalian eggs and embryos is so active today that this important topic deserves a full chapter in a book concerned with molecular embryology. Therefore, I am very thankful to my colleague Dr. Henri Alexandre, who has written a chapter on mammalian embryology (Chap. 9) and has prepared all the illustrations for this book. | I From Descriptive to Molecular Embryology.- II How Genes Direct the Synthesis of Specific Proteins in Living Cells.- III How Eggs and Embryos Are Made.- 1 Theories of Embryonic Differentiation.- 1.1 Summary of Descriptive Observations.- 1.2 A Few Important Experimental Facts.- 1.3 Genetic Theories of Morphogenesis.- IV Gametogenesis and Maturation: The Formation of Eggs and Spermatozoa.- 1 Oogenesis.- 1.1 Cytoplasm.- 1.2 The Nucleus (Germinal Vesicle: GV).- 1.2.1 The Nuclear Membrane.- 1.2.2 Chromosomes.- 1.2.3 Nucleoli.- 1.2.4 Nuclear Sap (Nucleoplasm).- 1.2.5 Xenopus Oocytes as Test-Tubes.- 2 Maturation of Xenopus Oocytes.- 3 Spermatogenesis.- V Fertilization: How the Sleeping Egg Awakes.- 1 General Outlook.- 2 The Fertilizin Problem.- 3 Physical and Chemical Changes at Fertilization.- 3.1 Early Changes.- 3.2 Later Biochemical Changes.- 3.2.1 Oxygen Consumption.- 3.2.2 Carbohydrate Metabolism.- 3.2.3 Protein Metabolism.- 3.2.4 Lipid Metabolism.- 4 Nucleic Acid and Protein...

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