

Molecular Developmental Biology, Second Edition



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Reviews

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(Johanna Roberts)

MOLECULAR DEVELOPMENTAL BIOLOGY, SECOND EDITION



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Narosa Publishing House, 2011. Softcover. Book Condition: New. 2nd edition. MOLECULAR DEVELOPMENTAL BIOLOGY comprises of chapters that deal with key steps in the transformation of the single-celled zygote into the complex, multicellular, adult animal. The chapter on gametogenesis has received special treatment, reflecting authors expertise in this field. The book also brings out latest information relating to the genetic basis of developmental processes, along with examples of genetic diseases and the underlying developmental defects. Chapters on stem cell biology, apoptosis, ageing, evolutionary developmental biology, environmental influence of development as well as plant development add new colour in attracting students of related subjects like cell and molecular biology, environmental and evolutionary biology as well as medicine. Both undergraduate and post-graduate students, together with teachers in specific subjects of developmental biology, as well as life sciences in general, will find it to be most useful. NEW TO THE SECOND EDITION: Chapters on ? Stem Cell Biology ? Therapeutic use of Mesenchymal Stem Cells ? Cancer Biology ? Molecular and Evolutionary Developmental Biology ? Ecological Developmental Biology ? Teratogenesis and Medical Embryology Table of Contents Preface to the Second Edition / Preface to the First Edition / Introduction / Gametogenesis / Spermatogenesis / Oogenesis / Fertilization / Cleavage / Gastrulation / Embryonic Induction and Neurulation / Neural Crest Cells / Cell Differentiation / Developmental Gradients / Axis Specification / Developmental Cycle and Morphogenesis in the Slime Mould Dictyostelium Discoideum / Organogenesis / Pattern Formation and Development of Limb / Development of Immune System / Embryonic Nutrition / Extra Embryonic Membranes / Placentation / Growth / Metamorphosis / Regeneration / Experimental Embryology / Stem Cell Biology / Therapeutic use of Mesenchymal Stem Cells / Cancer Biology / Molecular and Evolutionary Developmental Biology / Ecological Developmental Biology / Teratogenesis and Medical Embryology / Programmed Cell..



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