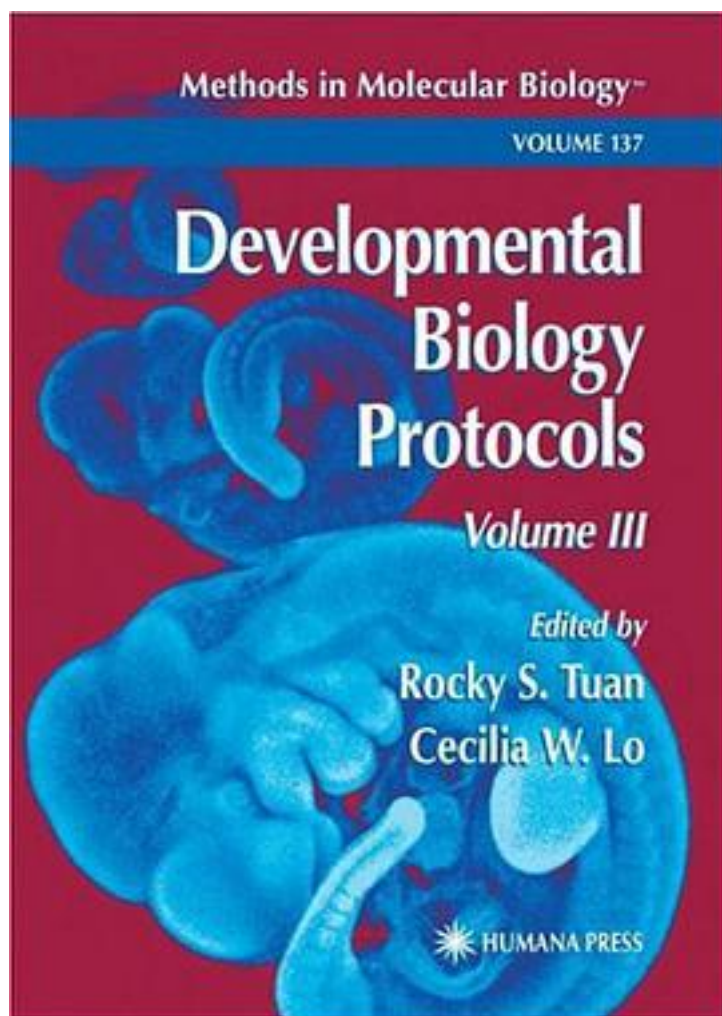


Developmental Biology Protocols



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Drawing on state-of-the-art cellular and molecular techniques as well as new and

sophisticated imaging and information technologies, this comprehensive, three-volume collection of cutting-edge protocols provides readily reproducible methods for studying and analyzing the events of embryonic development. volume 1 (ISBN: 089603-574-3) contains techniques for establishing and characterizing several widely used experimental model systems, for the study of developmental patterns and morphogenesis, and for the examination of embryo structure and function. There are also step-by-step methods for the analysis of cell lineage, the production and use of chimeras, and the experimental and molecular manipulation of embryos, including the application of viral vectors. volume 2 (ISBN: 0-89603-575-1) describes state-of-the-art methods for the study of organogenesis, the analysis of abnormal development and teratology, the screening and mapping of novel genes and mutations, and the application of transgenesis, including the production of transgenic animals and gene knockouts. No less innovative, volume 3 (ISBN: 0-89603-576-X) introduces powerful techniques for the manipulation of developmental gene expression and function, the analysis of gene expression, the characterization of tissue morphogenesis and development, the in vitro study of differentiation and development, and the genetic analysis of developmental models of diseases. Highly practical and richly annotated, the three volumes of Developmental Biology Protocols describe multiple experimental systems and details techniques adopted from the broadest array of biomedical disciplines.

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