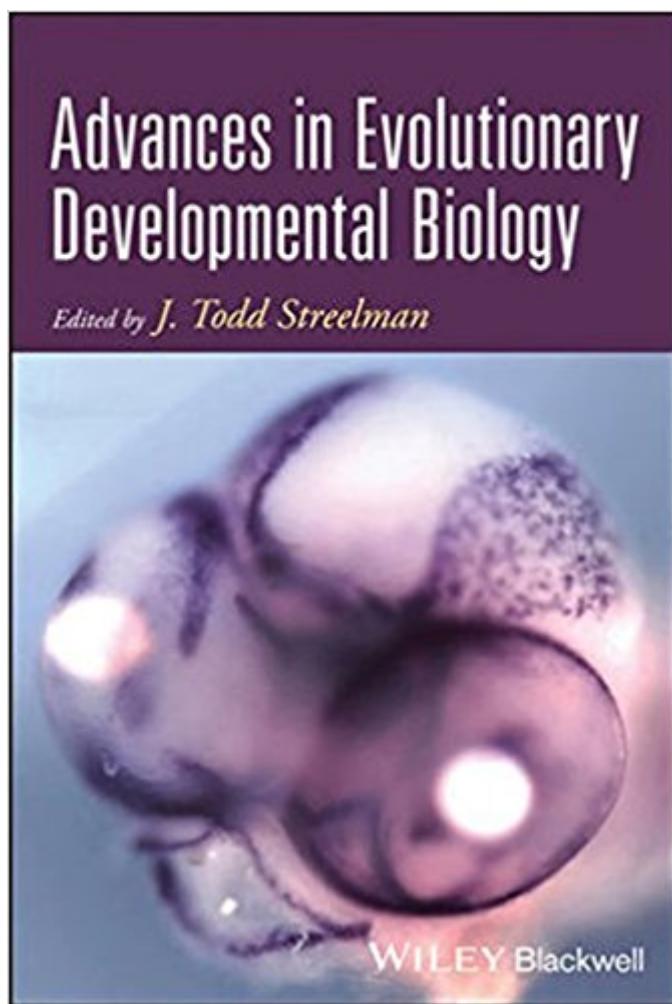


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Advances In Evolutionary Developmental Biology



Synopsis

Providing outstanding breadth of coverage in evo-devo, *Advances in Evolutionary Developmental Biology* provides a comprehensive review of the milestones of research in evolution and development and outlines the exciting research agenda for the field going forward. Compiling the viewpoints of a diverse group of field experts, this timely text expands the now-mature science of evo-devo into more complex areas of research. This essential reference is destined to become the go-to source for ideas and hypotheses for a new generation of graduate students in evolutionary and developmental biology.

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Customer Reviews

âœAll in all, this book is a nice resource for nascent evo-devo students who would like to get to know the history of their field, or for outsiders to evodevo who would like to know some of the major contributions.â• (The Quarterly Review of Biology, 1 October 2015) â

An outstanding look at the complex field of evo-devo; from traditional avenues of research to more novel topics; as reported and speculated on by a panel of scientific experts. The process of development transforms small single-cell zygotes into large complex animals and plants. The way this happens represents a visually stunning synchrony of processes from cell growth to cell death and differentiation. The modification of developmental trajectories can result in evolutionary change. Evo-devo thus sits at the intersection of research into the processes and mechanisms of

development and the processes and mechanisms of evolution. Providing outstanding breadth of coverage in evo-devo, *Advances in Evolutionary Developmental Biology* presents a comprehensive review of the milestones of research in evolution and development and outlines the exciting research agenda for the field going forward. Compiling the viewpoints of a diverse group of field experts, this timely text expands the now-mature science of evo-devo into more complex areas of research and offers eye-opening chapters on: "The genetic tool-kit": the life history of an important metaphor The evolution of sex determination in animals The evolution and development of eusocial insect behavior Evo-devo on chip From black and white to shades of gray: unifying evo-devo through the integration of molecular and quantitative approaches Advances in understanding limb regeneration in a developmental and evolutionary context Ectodermal organ stem cells: morphogenesis, population regenerative behavior, and evo-devo Perspectives in evo-devo of the vertebrate brain Evolution and development of language Advancing evolutionary developmental biology *Advances in Evolutionary Developmental Biology* is an essential reference destined to become the go-to source for ideas and hypotheses for a new generation of graduate students in evolutionary and developmental biology.

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