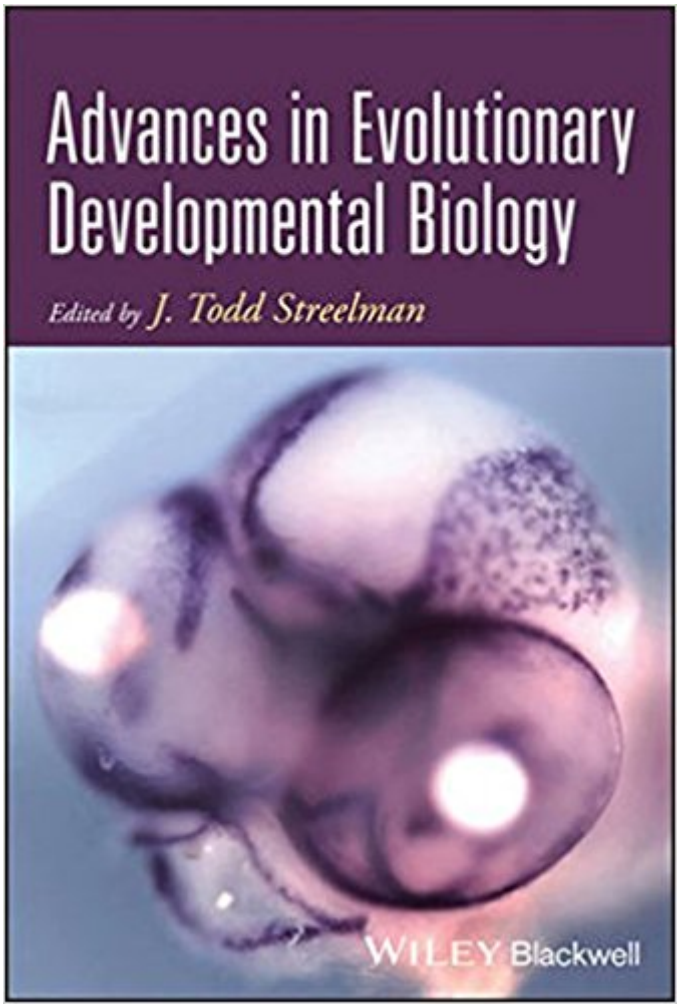
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Advances In Evolutionary Developmental Biology



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Synopsis

Providing outstanding breadth of coverage in evo-devo,Ã Â Advances in Evolutionary Developmental BiologyÃ Â 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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Ã¢â ¬Å“All 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.Ã¢â ¬Â•Ã Â (The Quarterly Review of Biology, 1 October 2015) Ã 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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