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3: The Evolution and Development of Eusocial Insect BehaviorThe Path from Solitary Life to Advanced Social Living; Eusociality: Defining the Extremes of Social Life; The Starting Point: A Solitary Life Cycle; Aggregations; Communal Nesting; Primitive Eusociality; Advanced Eusociality; Ultimate Explanations for Reproductive Division of Labor; What Could Natural Selection Act Upon to Build Eusocial Insect Societies?; Genomic Approaches; A Targeted Approach: Social Co-Option of Solitary Ground Plans; Reproductive Physiology as a Behavioral Regulator; Reproductive Ground Plan Hypothesis Epigenetics: A New Understanding of the Regulation of Social LifeGenomic Patterns of DNA Methylation: A Substrate for Natural Selection?; The Proposed Functional Roles of DNA Methylation; The Role of DNA Methylation in Eusocial Developmental Plasticity and Evolution; The Putative Role of DNA Methylation in Behavior and Social Behavioral Evolution; Social Insect Evolution: A Quickly Advancing Field; References; 4: Evo-Devo on Chip; Introduction; Interrogating Developmental Mechanisms in Drosophila melanogaster Using Microdevices
Microfluidic Advances for Developmental and Behavioral Studies in C. elegansMicrofluidic Culture Systems for Studying Genetic and Environmental Effects on D. rerio Development; Mammalian Embryonic Development in Microsystems; Conclusion; References; 5: From Black and White to Shades of Gray: Unifying Evo-Devo through the Integration of Molecular and Quantitative Approaches; Introduction; The Geometry of Development: A Quantitative Approach; A Brief Review of GMs; How GM Can Be Used to Study the Evolution of Development Size and Shape Relationships: How Can Allometry Inform Us about the Process of Evolution?

Sommario/riassunto

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 biolo

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