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Autor: Gilbert, Scott / Barresi, Michael

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Sinopsis

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Written primarily for undergraduate biology majors, this book can also serve to introduce graduate students and medical students to the field. The completely updated text integrates classical developmental biology with all the incredible advances that have been made in recent years. Dr. Gilbert's unique ability to synthesize the breakthroughs in this rapidly evolving discipline in a succinct, organized manner has made *Developmental Biology* the go-to source for a generation of teachers and nascent developmental biologists. New: "Integration" has emerged as the key theme in developmental biology over the past three years. The mechanisms of transcriptional gene regulation and of aging, the data on amniote limb development, the ways in which fertilization occurs, and the mechanisms of sex determination--each has been integrated. Even developmentally important genes have been "integrated" into genetic regulatory networks. The new Eleventh Edition reflects this exciting new age of genomics, genetic regulatory networks, and digital visualization techniques. Cytoskeletal dynamics, which integrate the genetic regulatory genes with morphogenetic events, has overhauled the discussions of neural development and cell signaling