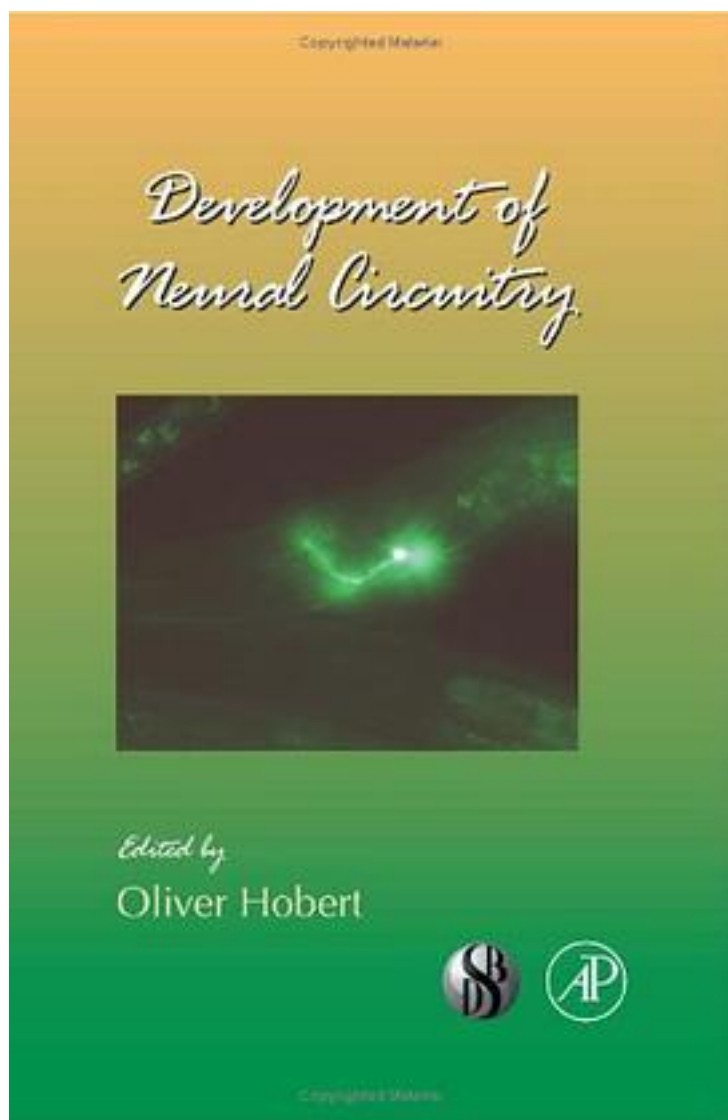


# Development of Neural Circuitry



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The nervous system is highly complex both in its structural order and in its ability to perform the many functions required for survival and interaction with the environment; understanding how it develops has proven to be one of the greatest challenges in biology. Such precision demands that key events at every developmental stage are executed properly and are coordinated to produce the circuitry underlying each of the adult nervous system's functions. This work describes the latest research on the cellular and molecular mechanisms of neural circuitry development, while providing researchers with a one-stop overview and synthesis of contemporary thought in the area. It reviews current research findings on the development of neural circuitry, providing researchers an overview and synthesis of the latest contemporary thought in the cellular and molecular mechanisms that underlie the development of neural circuitry. This book: includes chapters discussing topics such as the guidance of nerve growth and the formation of plasticity of synapses, helping researchers better understand underlying mechanisms of neural circuit development and maintenance that may play a role in such human diseases/conditions as depression, anxiety, and pain; and carries chapters that make use of a variety of human and animal models, allowing researchers to compare and contrast neural circuitry development across a wide spectrum of models.

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