



Determinants of Neuronal Identity

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Determinants of Neuronal Identity brings together studies of a wide range of vertebrate and invertebrate organisms that highlight the determinants of neuronal identity. Emphasis of this book is on how neurons are generated; how their developmental identities are specified; and to what degree those identities can be subsequently modified to meet the changing needs of the organism. This book also considers various techniques used in the analysis of different organisms.

This volume is comprised of 15 chapters; the first of which introduces the reader to the specification of neuronal identity in *Caenorhabditis elegans*. The discussion then turns to neurogenesis and segmental homology in the leech, as well as intrinsic and extrinsic factors influencing the development of Retzius neurons in the leech nervous system. *Drosophila* is discussed next, with particular reference to neuronal diversity in the embryonic central nervous system, cell choice and patterning in the retina, and development of the peripheral nervous system. Other chapters explore endocrine influences on the postembryonic fates of neurons during insect metamorphosis; neuron determination in the nervous system of *Hydra* and in the mammalian cerebral cortex; and segregation of cell lineage in the vertebrate neural crest.

This book will help scientists and active researchers in synthesizing a conceptual framework for further studies of neuronal specification.

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