



# Cellular and Molecular Biology of Neuronal Development

*Ira Black*

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## **Cellular and Molecular Biology of Neuronal Development** Ira Black

A central problem in neurobiology concerns mechanisms that generate the profound diversity and specificity of the nervous system. What is the substance of diversification and specificity at the molecular, cellular, and systems levels? How, for example, do 10<sup>11</sup> neurons each form approximately 10<sup>11</sup> interconnections, allowing normal physiological function? How does disruption of these processes result in human disease? These proceedings represent the efforts of molecular biologists, embryologists, neurobiologists, and clinicians to approach these issues. In this volume are grouped by subject to present the varieties of methods used to approach each individual area. Section I deals with embryogenesis and morphogenesis of the nervous system. In Chapter 3, Weston and co-workers describe the use of monoclonal antibodies that recognize specific neuronal epitopes (including specific gangliosides) for the purpose of defining heterogeneity in the neural crest, an important model system. Immunocytochemical analysis reveals the existence of distinct subpopulations within the crest at extremely early stages; cells express neuronal or glial binding patterns at the time of migration. Consequently, interactions with the environment may select for predetermined populations. Le Douarin reaches similar conclusions in Chapter 1 by analyzing migratory pathways and developmental potentials in crest of quail-

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