



Molecular Action of Toxins and Viruses (Molecular Aspects of Cellular Regulation)

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Molecular Action of Toxins and Viruses investigates the molecular action of bacterial toxins and viruses and its striking similarity to the mechanisms by which many neural and hormonal stimuli control normal cell functions. Topics covered include the biological activity of diphtheria toxin; the role of cholera toxin in the regulation of hormone-sensitive adenylate cyclase; toxic lectins and related proteins; and bacterial cytolysins (membrane-damaging toxins).

Comprised of nine chapters, this volume begins with a discussion on the biosynthesis and biological activity of diphtheria toxin, toxin-resistant mutant cells, and the entry of toxin into cells and fragment A in the cytoplasm of living cells. The reader is then systematically introduced to the use of cholera toxin as a probe to study the regulation and interaction of adenylate cyclase components; the toxic action of lectins and related proteins such as abrin, ricin, and modeccin; and the ability of bacterial cytolysins to damage cell membranes. The remaining chapters focus on the mechanism of action of colicin E2, colicin E3, and cloacin DF13; similarities in the action of different bacterial toxins; the role of cell membranes in infection with bacterial viruses and colicins; and the life cycle and infection mechanisms of bacteriophage T4. The book concludes with an analysis of the involvement of protein kinases in viral transformation.

This monograph will be of interest to students, practitioners, and researchers in fields ranging from molecular biology and biochemistry to cell biology, bacteriology, and physiology.

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