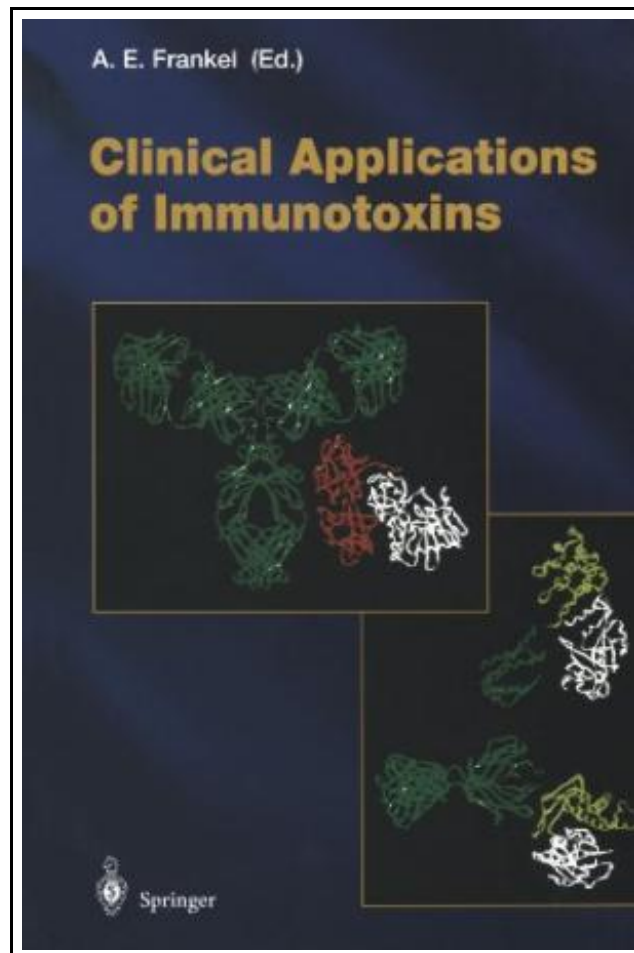


# Clinical Applications of Immunotoxins Current Topics in Microbiology and Immunology



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***(Dominic Collins)***

## CLINICAL APPLICATIONS OF IMMUNOTOXINS CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY



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Springer. Paperback. Book Condition: New. Paperback. 122 pages. Dimensions: 9.0in. x 6.0in. x 0.4in.1 2 D. FITZGERALDI, I. PASTAN , and J. ROBERTUS Introduction . . . . . I 2 Toxin Structure-Function Properties 2 2. 1 Functions. . . . . 2 2. 2 Binding. . . . . 3 3 Intracellular Processing - Cleavage and Reduction . . . . . 4 3. 1 Cytosolic Activity . . . . . 5 4 Immunotoxin Design and Testing. 6 5 Conclusion. . 8 References. . . . . 8 1 Introduction While various treatment approaches for cancer include reversal of the transformed phenotype, stimulation of immune responses, inhibition of metastatic spread and deprivation of key nutrients, the goal of immunotoxin treatment is the direct killing of malignant cells. Because they are enzymatic proteins that act catalytically to kill cells, bacterial and plant toxins are often employed as the cell-killing component of immunotoxins. Here we provide background information into the structure-function relationships of toxins and discuss how they can be combined with cell-binding antibodies or other ligands to generate immunotoxins. Bacterial and plant toxins (e. g. , diphtheria toxin, Pseudomonas exotoxin and ricin) are among the most toxic substances known. However, because they bind to cell surface receptors that are present on most normal cells, unmodified toxins are generally useless as anti-cancer agents. To convert toxins into more selective agents, their binding domains are either eliminated or disabled and replaced...



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