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Nota di contenuto	Bacterial Toxins; Contents; CHAPTER 1 . Cholera Toxin: Mechanism of Action and Potential Use in Vaccine Development; 1.1 Introduction; 1.2 Molecular Aspects of Cholera Toxin Action; 1.2.1 Structure and Relationship to Other Toxins; 1.2.2 Toxin Entry into Cells and Events Leading to Pathogenesis; 1.2.3 Enzymology of Cholera Toxin; 1.2.4 In Vitro Stimulation of Cholera Toxin Activity by ARF; 1.3 Practical Aspects of Cholera Toxin Use; 1.3.1 Vaccine and Vaccine Development; 1.3.2 Cholera Toxin as a Molecular Tool; 1.4 Summary CHAPTER 2 . Cholera Toxin and Escherichia coli Heat-labile Enterotoxin: Biochemical Methods for Assessing Enzymatic Activities2.1 Introduction; 2.2 General Information on CT. LT. ARF and Reagents; 2.2.1 Sources, Purification, and Activation of CTA and LTA; 2.2.2 Sources and Purification of ARF; 2.2.3 Reagents and Materials; 2.2.4 Stock Solutions; 2.3 Assay 1 : The Gsa Assay; 2.3.1 Additional Reagents and Materials Required; 2.3.2 Protocol; 2.4 Assay 2: The Agmatine Assay; 2.4.1 Additional Reagents and Materials Required; 2.4.2

Protocol; 2.5 Assay 3: Auto-ADP-ribosylation Assay
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 Assay 4: NAD Glycohydrolase Assay; 2.6.1 Additional Reagents and
 Materials Required; 2.6.2 Protocol; 2.7 Comments and Considerations;
 2.7.1 Appropriate Controls and Analysis of Data; 2.7.1.1 Controls;
 2.7.1.2 Data analysis; 2.7.2 Optimization Interfering Substances,
 Troubleshooting, and Assay; 2.7.2.1 Interfering substances; 2.7.2.2
 Troubleshooting; 2.7.2.3 Assay optimization; 2.7.3 Consideration for
 the Use of ARF; 2.7.3.1 Lipid/Detergent and Nucleotide Requirements;
 2.7.3.2 Development of other Assay Conditions
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 PAGE; 4.3.6 Cleavage of ADP-ribose from Ga Subunits; 4.4 SDS-Gel
 Electrophoresis; 4.5 Reagents and Chemicals; CHAPTER 5 . Clostridium
 botulinum ADP-ribosyltransferase C3; 5.1 Introduction
 5.2 The Family of C3-like Transferases

Sommario/riassunto

This is a survey of well characterized and recently discovered bacterial protein toxins. Leading investigators of the respective toxins review the various molecular mechanisms of action, ranging from toxin-induced ADP-ribosylation up to membrane perforation by pore-forming toxins. They also describe the consequences on host physiology before focusing on potential applications as cell biological and pharmacological tools for research and medical applications. Detailed descriptions of the methodology include the engineering and use of modified and chimeric toxins for better performance. A soli

2. Record Nr.	UNISA996396606003316
Autore	Fox George <1624-1691.>
Titolo	The spiritual man Christ Jesus [[electronic resource]] : the blessed seed, light of life, purger of conscience, healer of nations, and restorer of mankind / / by G. Fox
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Descrizione fisica	10 p
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