



Endogenous ADP-Ribosylation

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Monografía

This volume gathers the latest exciting findings on ADP-ribosylation from renowned experts in the field. It includes ten chapters, organized into the following three thematic sections: Evolution and detection of endogenous ADP-ribosylation ADP-ribosylation by the ARTC family of ADP-ribosyltransferases (R-S-E ARTs) ADP-ribosylation by the ARTD family of ADP-ribosyltransferases (H-Y-E ARTs) The book will provide readers a better understanding of ADP-ribosylating toxins and their endogenous relatives. This provides a basis for developing novel toxin-neutralizing drugs and drugs targeting endogenous ADP-ribosyltransferase relatives

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Contenido: The natural history of ADP-ribosyltransferases and the ADP ribosylation system -- Identification and Analysis of ADP-ribosylated Proteins -- Photorhabdus luminescens toxins TccC3 and TccC5: Insecticidal ADP-ribosyltransferases that modify threonine and glutamine -- Reaction mechanism of mono-ADP-ribosyltransferase based on structures of the complex of enzyme and substrate protein -- Regulation of nitrogenase by reversible mono-ADP-ribosylation -- ADP-ribosylation of P2X7: a matter of life and death for regulatory T cells and natural killer T cells -- Pierisins and CARP-1: ADP-ribosylation of DNA by ARTCs in butterflies and shellfish -- Comparative structural analysis of the putative mono-ADP-ribosyltransferases of the ARTD/PARP family -- Function and regulation of the mono-ADP-ribosyltransferase ARTD10 -- Regulation of nucleocytoplasmic transport by ADP-ribosylation: the emerging role of karyopherin-1 mono-ADP-ribosylation by ARTD15

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