



ADP-Ribosylation Reactions: Biology and Medicine (Molecular Biology)

Osamu Hayaishi, Kunihiro Ueda

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ADP-Ribosylation Reactions: Biology and Medicine deals with the biochemical and physiological aspects of poly(ADP-ribose) and ADP-ribosylation of proteins. Topics covered range from pyridine nucleotide metabolism and ADP-ribosylation to the structure and properties of poly(ADP-ribose), along with acceptor proteins of poly(ADP-ribose). ADP-ribosyl protein linkages and poly(ADP-ribose) synthetase are also discussed.

Comprised of 39 chapters, this book begins with a historical background on the discovery of poly(ADP-ribose) and the significance of poly- and mono(ADP-ribosyl)ation reactions in molecular biology. The next section explores the role of ADP-ribosylation in NAD metabolism, paying particular attention to poly(ADP-ribose) synthetase-DNA interaction and the link between chromatin structure and poly(ADP-ribosyl)ation. Subsequent chapters focus on subfractions and subcellular distribution of mono(ADP-ribosyl) proteins in eukaryotic cells; polyadenylation and ADP-ribosylation of reovirus proteins; poly(ADP-ribose) synthesis in plants; and immunohistochemistry of poly(ADP-ribose). The final chapter analyzes the ADP-ribosylation activity of toxin A and exoenzyme S in *Pseudomonas aeruginosa*.

This monograph is written for students, practitioners, and researchers in fields such as molecular biology, medical chemistry, and biochemistry.

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