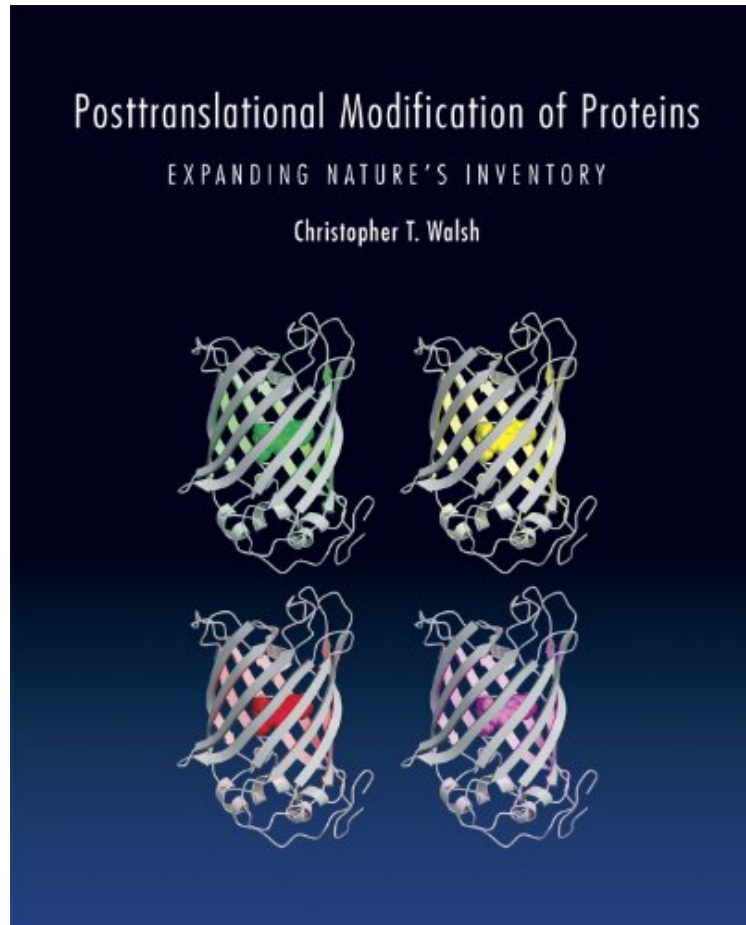


# Posttranslational Modification of Proteins: Expanding Nature's Inventory

Christopher Walsh

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**Christopher Walsh : Posttranslational Modification of Proteins: Expanding Nature's Inventory** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Posttranslational Modification of Proteins: Expanding Nature's Inventory:

0 of 0 people found the following review helpful. Five Stars By Customer Excellent overview of the most common modifications.

The number of protein isoforms in proteomes can be two to three orders of magnitude higher than the number of genes in the genomes. This is in large part due to posttranslational modifications of proteins that provide covalent alterations to protein backbones and side chains that increase proteome complexities. Greater than 5% of the genes in the human genome encode enzymes that perform such modifications, including hundreds of protein kinases and opposing

phosphatases, ubiquitinyl ligases, acetylases and deacetylases, methyl transferases and glycosyl transferases. The major classes of posttranslational modifications (PTM) are codified according to types of residues modified, underlying chemistry, PTM catalysts, and biological consequences. This is the first comprehensive treatment of this burgeoning area of proteome diversification.

"Christopher Walsh, an acclaimed scientist, has written yet another outstanding book. It surveys the vast field of chemical modifications that proteins undergo in living cells. The book's depth of coverage and clarity of exposition will make it an indispensable text for both students and active researchers." Alexander Varshavsky, Smits Professor of Cell Biology, California Institute of Technology