



# Homocysteine in Protein Structure/Function and Human Disease: Chemical Biology of Homocysteine-containing Proteins

*Hieronim Jakubowski*

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## **Homocysteine in Protein Structure/Function and Human Disease: Chemical Biology of Homocysteine-containing Proteins** Hieronim Jakubowski

Excess of homocysteine, a product of the metabolism of the essential amino acid methionine, is associated with poor health, is linked to heart and brain diseases in general human populations, and accelerates mortality in heart disease patients. Neurological and cardiovascular abnormalities occur in patients with severe genetic hyperhomocysteinemia and lead to premature death due to vascular complications. Although it is considered a non-protein amino acid, studies over the past dozen years have discovered mechanisms by which homocysteine becomes a component of proteins. Homocysteine-containing proteins lose their normal biological function and become auto-immunogenic and pro-thrombotic. In this book, the author, a pioneer and a leading contributor to the field, describes up-to date studies of the biological chemistry of homocysteine-containing proteins, as well as pathological consequences and clinical implications of their formation. This is a comprehensive account of the broad range of basic science and medical implications of homocysteine-containing proteins for health and disease. ?

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