

## Purine Metabolism in Man



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## PURINE METABOLISM IN MAN



Book Condition: New. Publisher/Verlag: Springer, Berlin | Enzymes and Metabolic Pathways | Gout and uric acid lithiasis are known to have affected mankind for thousands of years. It is only recently, however, that great progress has been made in the understanding of the processes involved in purine metabolism and its disorders in man. The key enzymes active in the various pathways of purine synthesis and degradation have become known and their properties are the subject of intensive study. Major contributions to the knowledge of normal purine metabolism in man have derived from the study of inborn errors in patients with purine disorders, specifically complete and partial hypoxanthine-guanine phosphoribosyltransferase deficiency. Mutations of other enzymes involved in purine metabolism are being discovered. A great step forward has been made in the treatment of gout with the introduction of uricosuric drugs and more recently of the hypoxanthine analogue allopurinol, a synthetic xanthine oxidase inhibitor. Furthermore, the complex nature of the renal handling of uric acid excretion, although still posing difficult problems, appears to approach clarification. | of Volume 41A.- Enzymes and Metabolic Pathways in Purine Metabolism.- Purine Phosphoribosyltransferases.- Human Hypoxanthine-Guanine Phosphoribosyltransferase (HGPRT): Purification and Properties.- Stabilization by PRPP of Cellular Purine Phosphoribosyltransferases Against Inactivation by Freezing and Thawing. Study of Normal and HypoxanthineGuanine Phosphoribosyltransferase Deficient Human Fibroblasts.- Purification and Characterization of a Neural Hypoxanthine-GuaninePhosphoribosyltransferase (HGPRT).- Human Adenine Phosphoribosyltransferase: Purification, Subunit Structure and Substrate Specificity.- Genetic Control of Bacterial Purine Phosphoribosyltransferases and an Approach to Gene Enrichment.- Glutamine-PRPP Amidotransferase.- Human Glutamine Phosphoribosylpyrophosphate (PP-ribose-P) Amidotransferase: Kinetic, Regulation and Configurational Changes.- Xanthine Oxidase.- Xanthine Oxidase and Aldehyde Oxidase in Purine and Purine Analogue Metabolism.- Regulation of Xanthine Dehydrogenase and Purine Nucleoside Phosphorylase Levels in Chick Liver.- Xanthine Oxidase Activity of Mammalian Cells.- PRPP Synthetase and PRPP.- Human Phosphoribosylpyrophosphate (PP-Ribose-P) Synthetase: Properties and Regulation.- Regulatory Aspects...



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