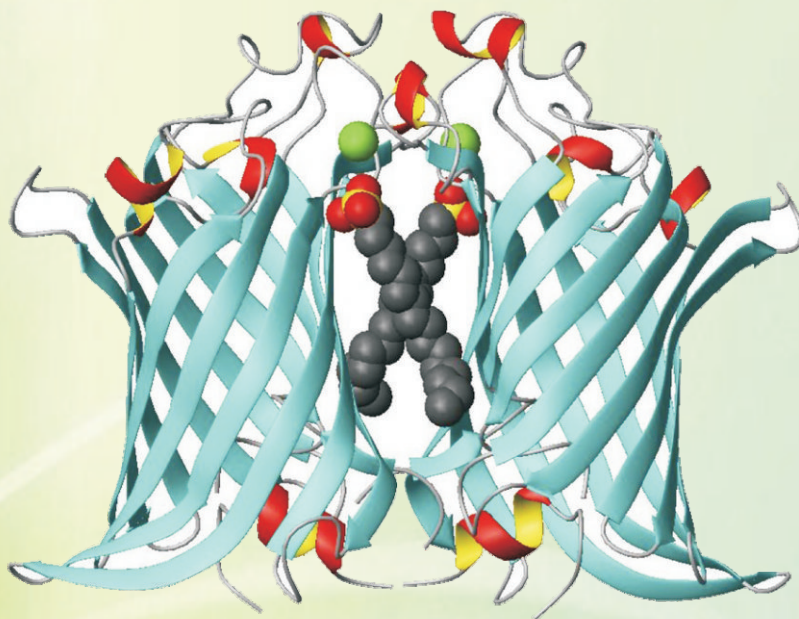


# ENZYMOLOGY - A QUICK REVIEW



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# Enzymology – A Quick Review

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### Enzymes as therapeutic agents

Enzyme	Therapeutic Application
Streptokinase / Urokinase	Acute MI, Pulmonary embolism, DVT(Deep vein thrombosis)
Trypsin, lipase and amylase	Pancreatic insufficiency
Asparaginase / Glutaminase	Acute lymphoblastic leukemias
Hyaluronidase	Enhanced local anesthesia and for easy diffusion of fluids
Papain	Anti inflammatory
Chymotrypsin	Pain killer and Anti inflammatory
Alpha - 1 Antitrypsin	Deficiency and Emphysema
Serrapeptidase	Pain killer and Anti inflammatory

### Summary – Enzymes as diagnostic markers

Name of the Enzyme	Conditions in which level of activity in serum is elevated
Aspartate Amino transferase (AST)	Myocardial infarction, Liver disease especially with liver cell damage
Serum glutamate – oxaloacetate transaminase (SGOT)	
Alanine Amino transferase (ALT)	Liver disease especially with liver cell damage
Alkaline Phosphatase (ALP)	Liver disease-biliary obstruction Osteoblastic bone disease-rickets
Acid Phosphatase (ACP)	Prostatic carcinoma
**glutamyl Transferase (** GT)	Liver disorder like liver cirrhosis and alcoholism
Creatine kinase (CK)	Myocardial infarction and skeletal muscle disease (muscular dystrophy)
Lactate Dehydrogenase (LDH)	Myocardial infarction other diseases like liver diseases same blood.

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