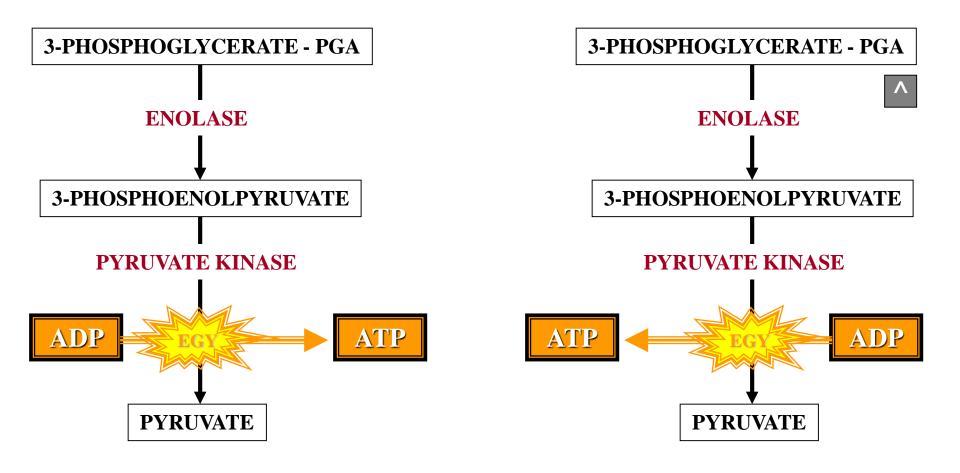


CONSISTS: SPECIFIC SEQUENCE BIO-CHEM RXTS

BLACK = SUBSTRATE/PRODUCT

RED = ENZYME



CONSISTS: SUBSTRATE & ENZYME REACTIONS

BLACK = SUBSTRATE/PRODUCT

RED = ENZYME

SUBSTRATES & ENZYMES

SUBSTRATE

SUBSTRATE

BIOCHEMICAL COMPOUND ACTED UPON BY AN ENZYME

SUBSTRATE

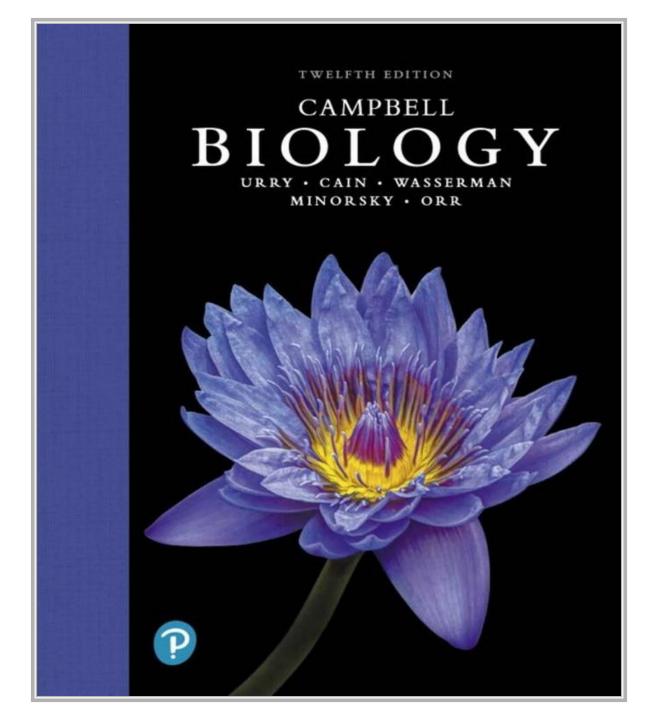
ENZYME



ENZYME

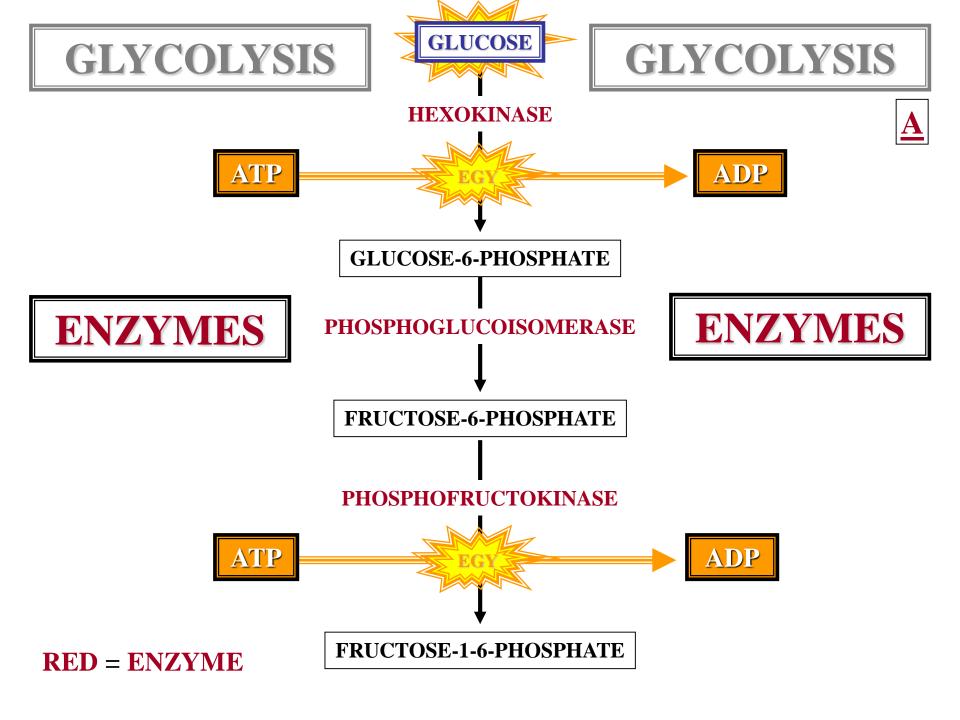
PROTEIN BIOCHEMICAL CATALYST

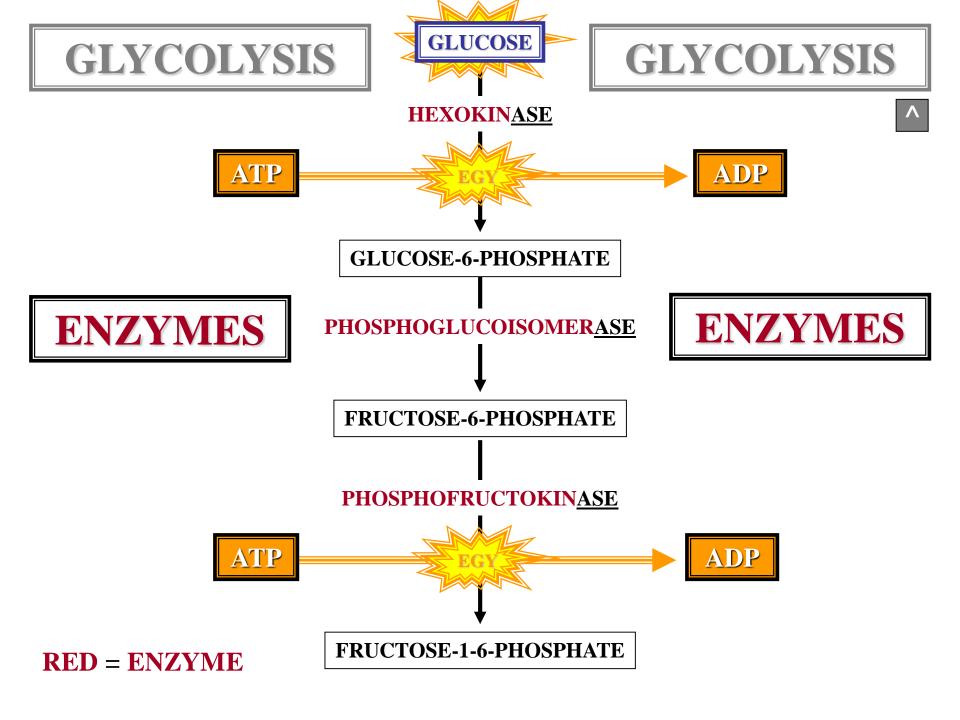
ENZYME











SUGAR-



SUGAR-OSE



SUGAR-

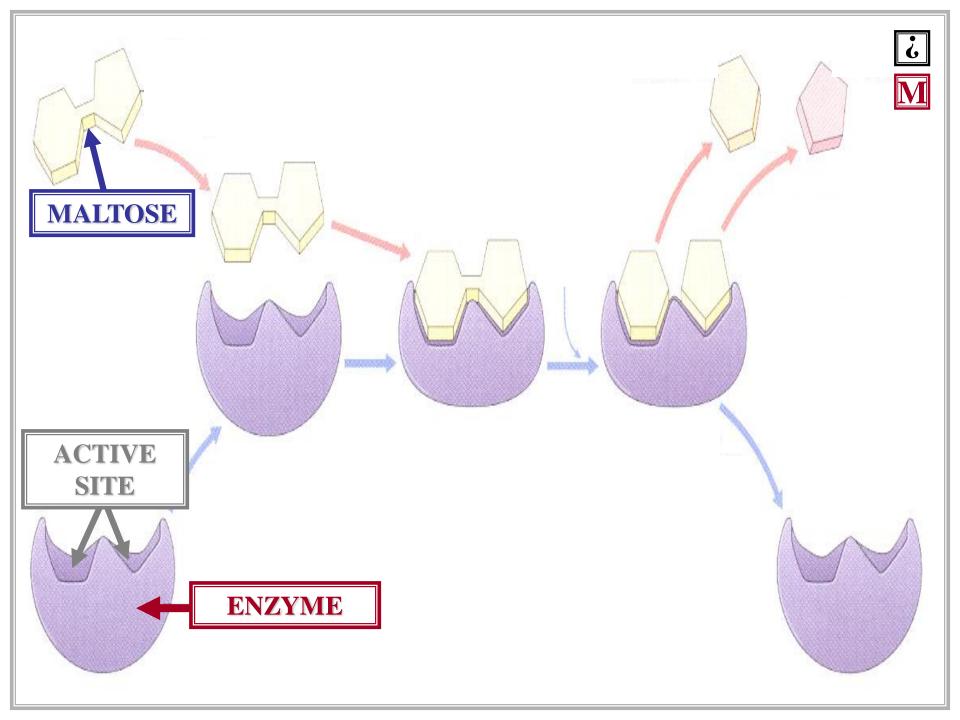


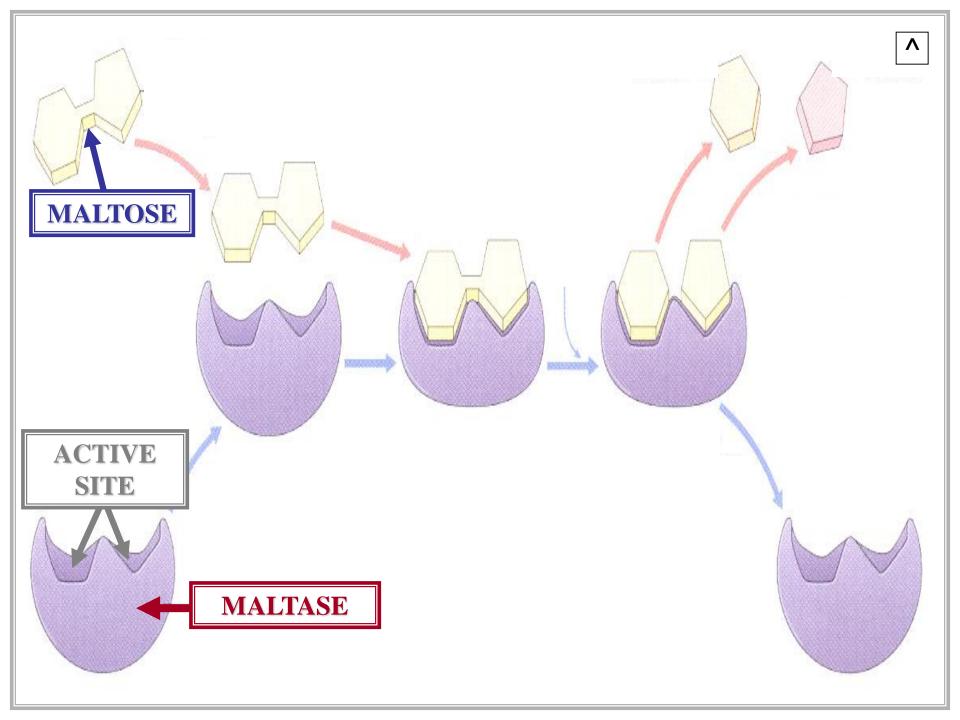
SUGAR-ASE

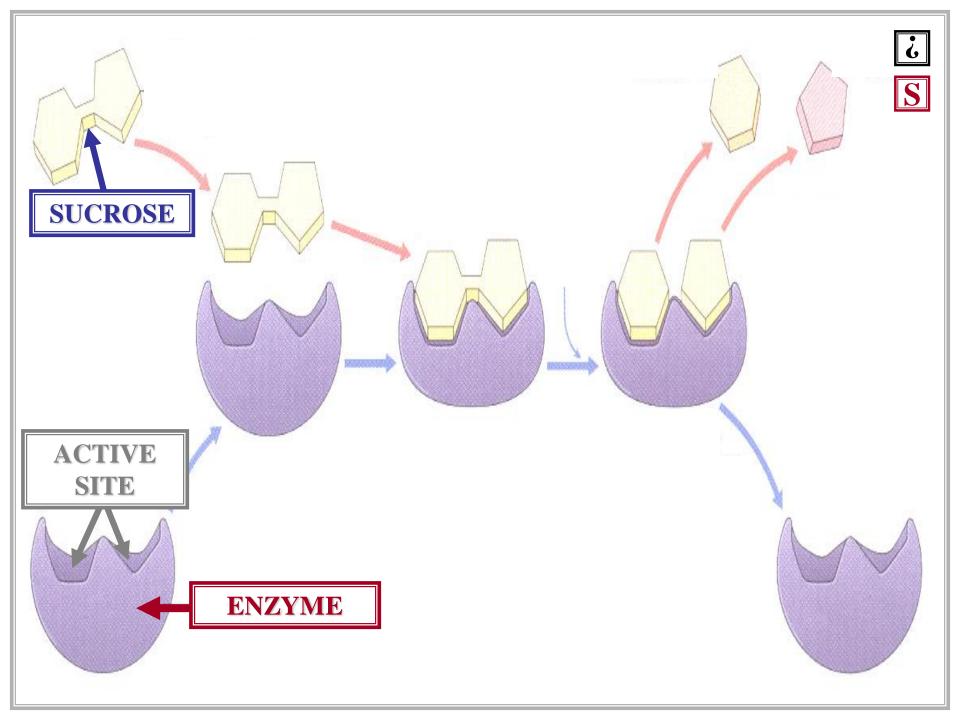


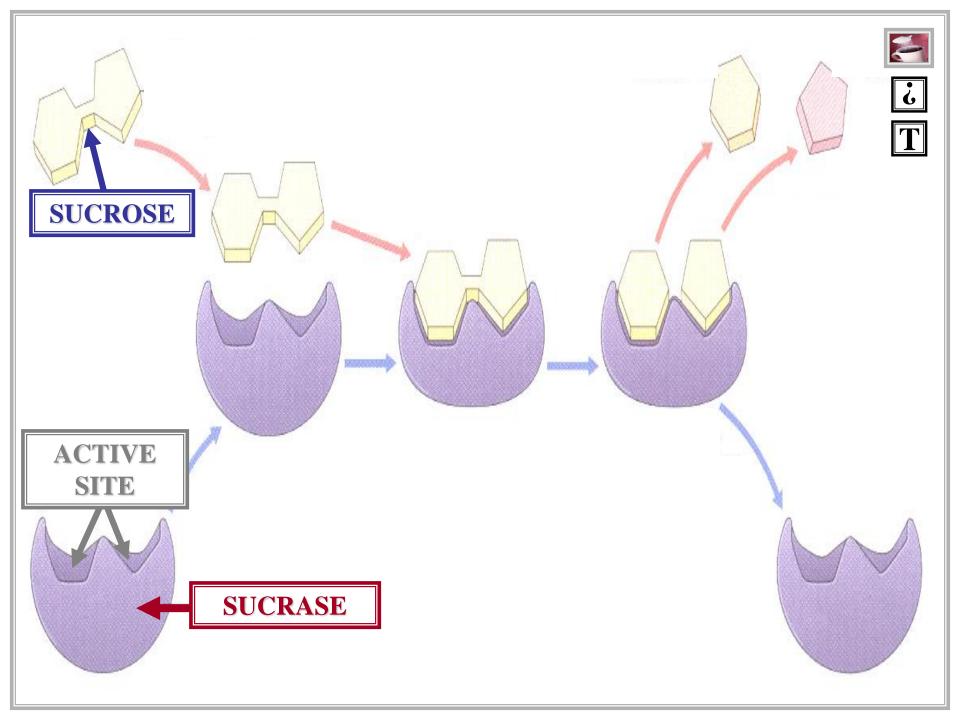


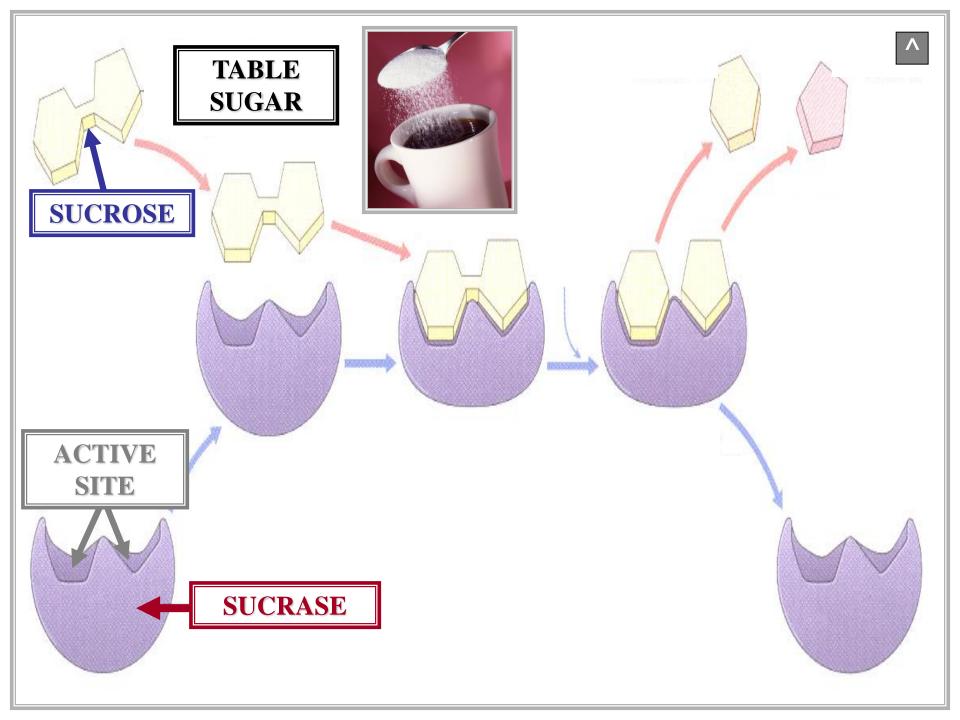
SUGAR ENZYMENAME EXAMPLES





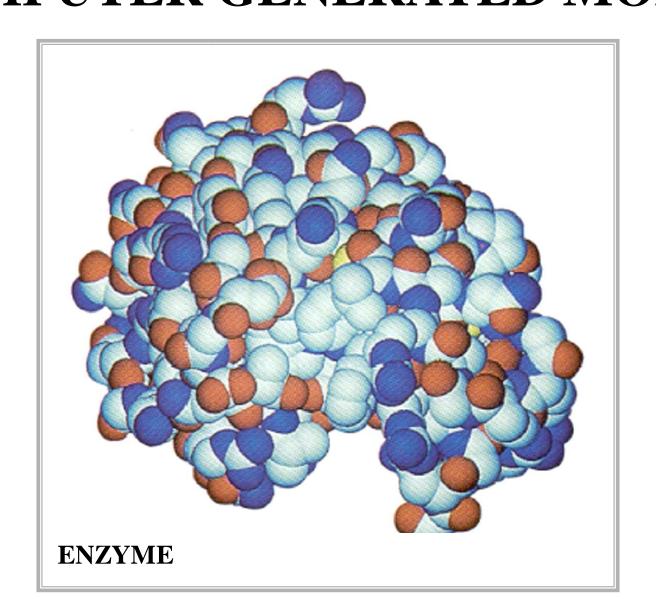


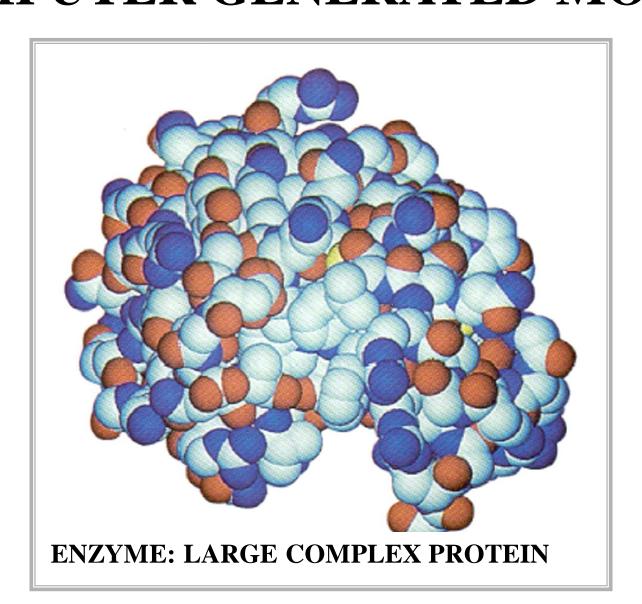


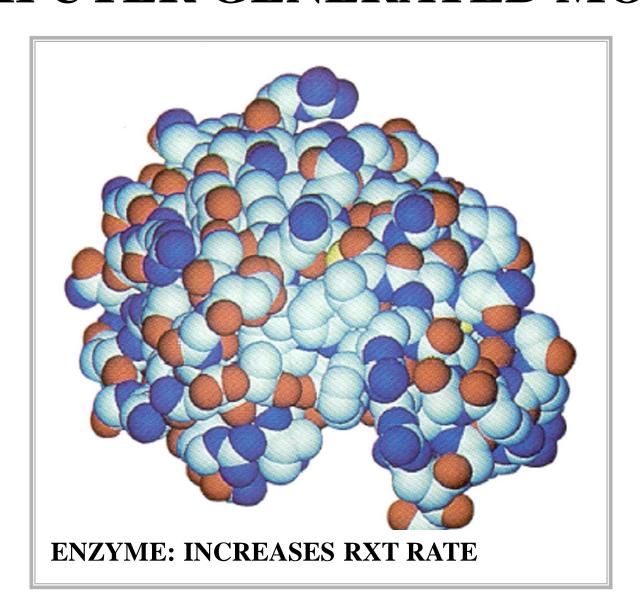


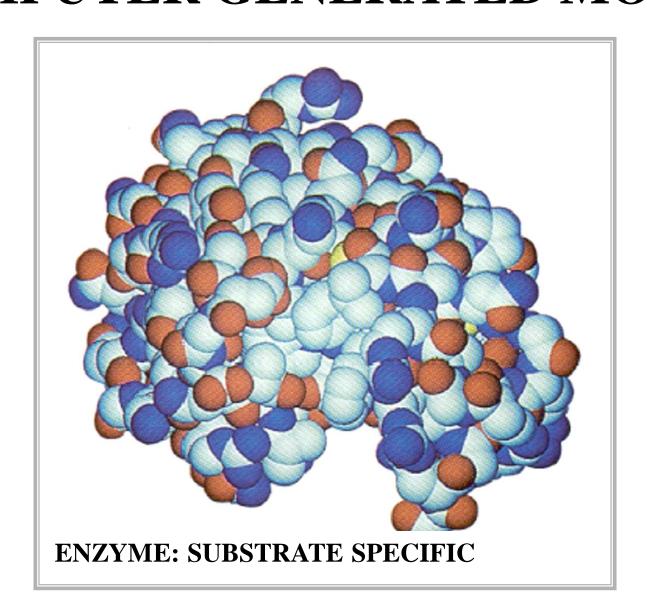


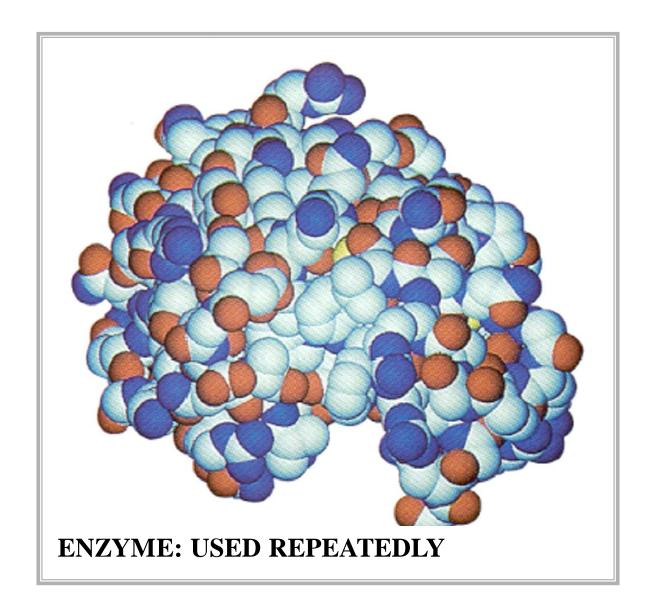
ENZYME FEATURES





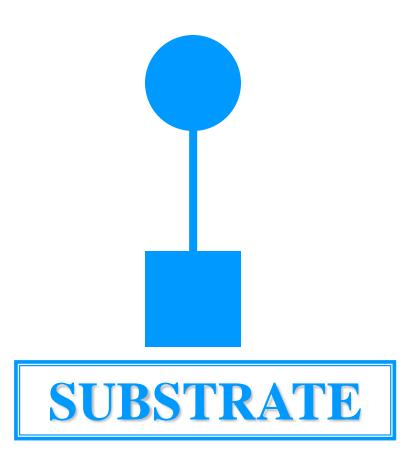




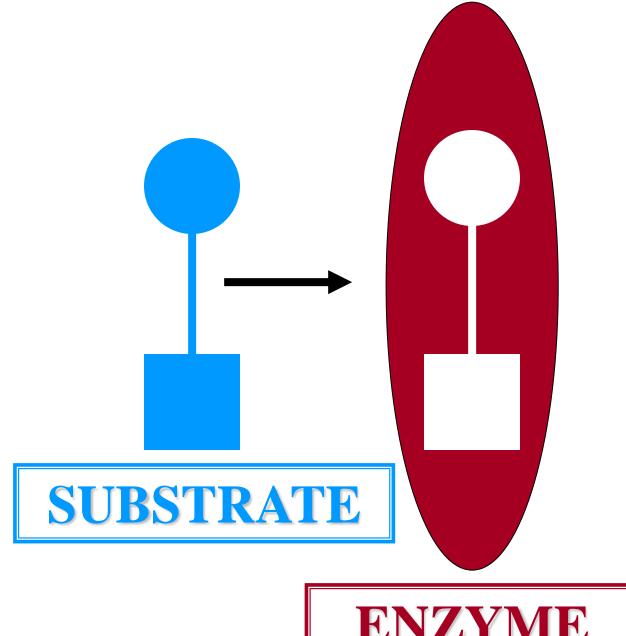




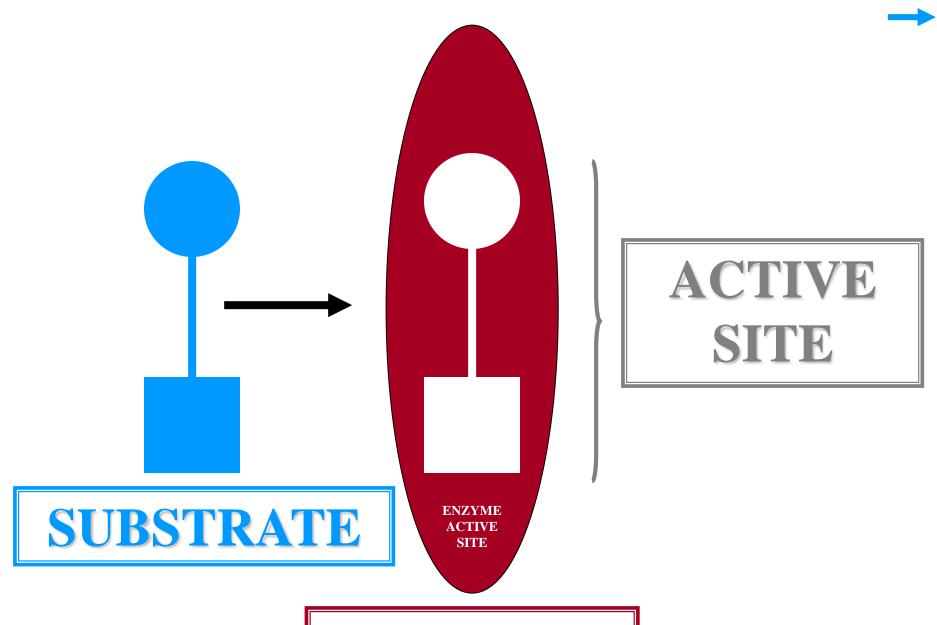
SUBSTRATE R ENZYME INTERACTION



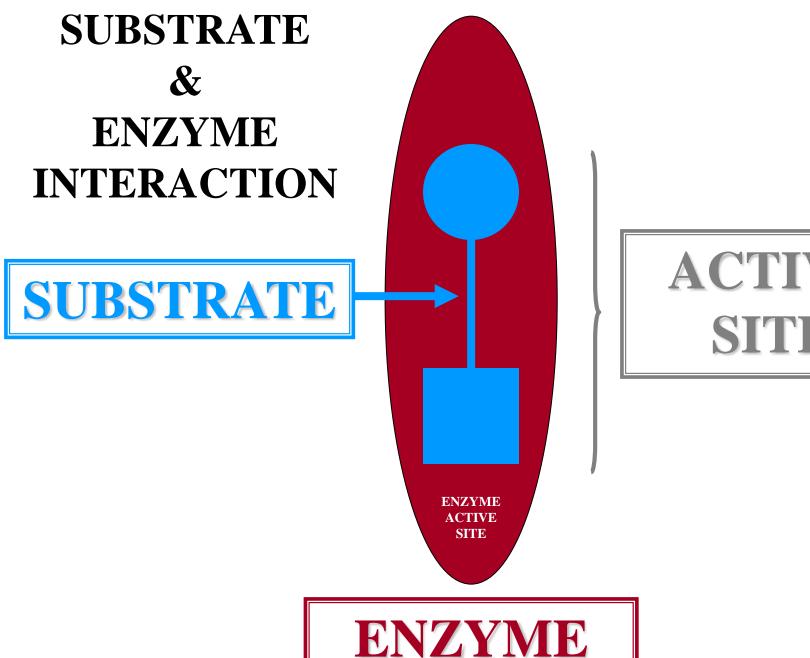




ENZYME



ENZYME



ACTIVE SITE



ENZYME ACTIVE SITE

ACTIVE SITE

ACTIVE SITE

ENZYME REGION

ACTIVE SITE

ACTIVE SITE

ENZYME REGION

INTERACTS WITH SUBSTRATE ->

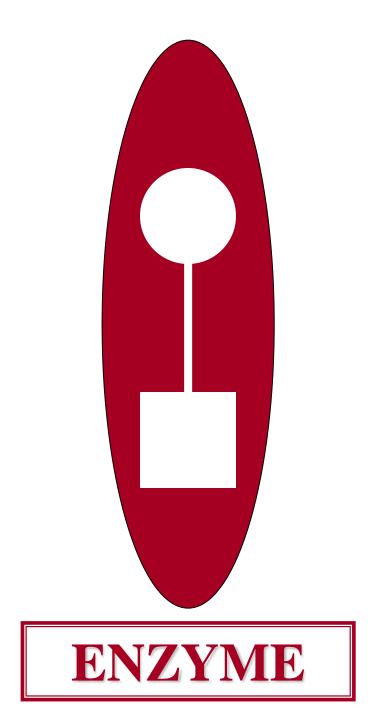
ACTIVE SITE

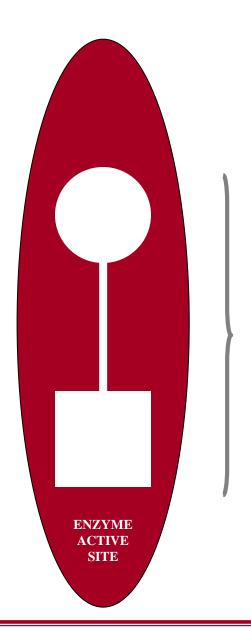
ACTIVE SITE ENZYME REGION

INTERACTS WITH SUBSTRATE ->

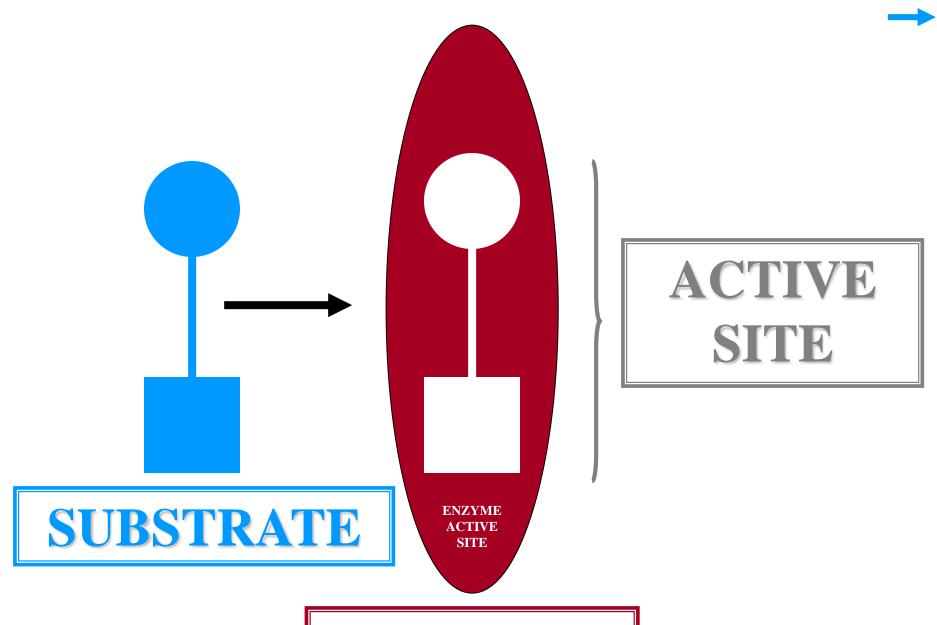
SUB/ENZ COMPLEX
ACTIVE SITE

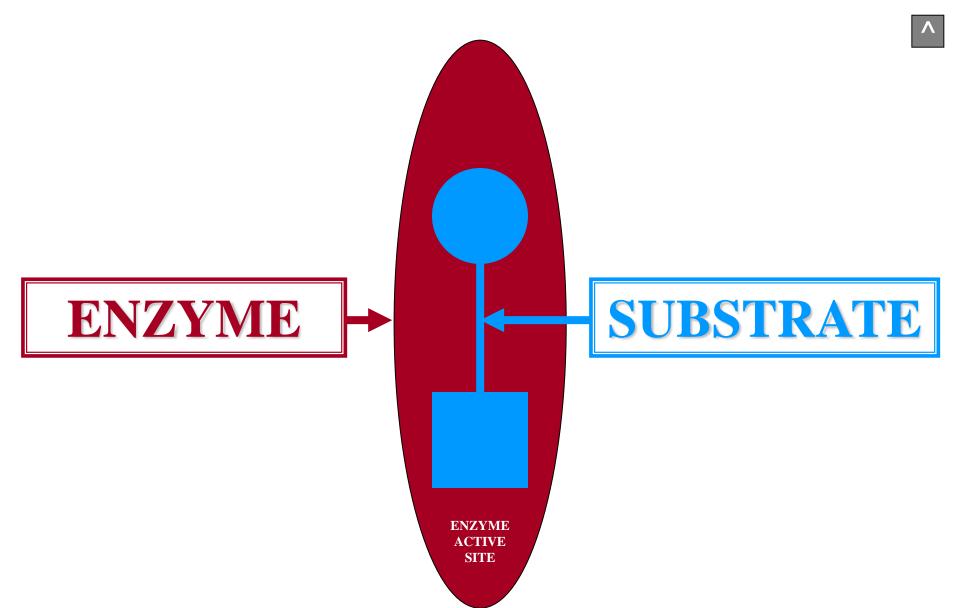






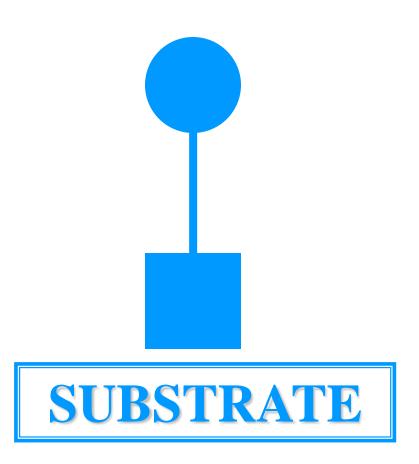
ACTIVE SITE



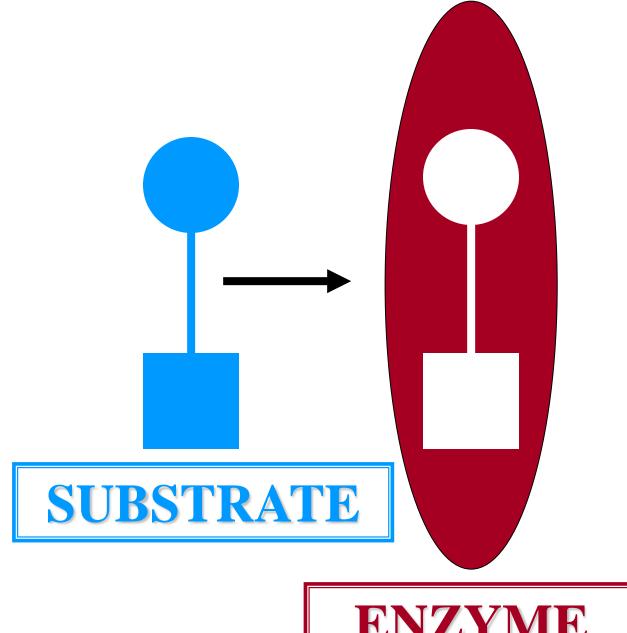


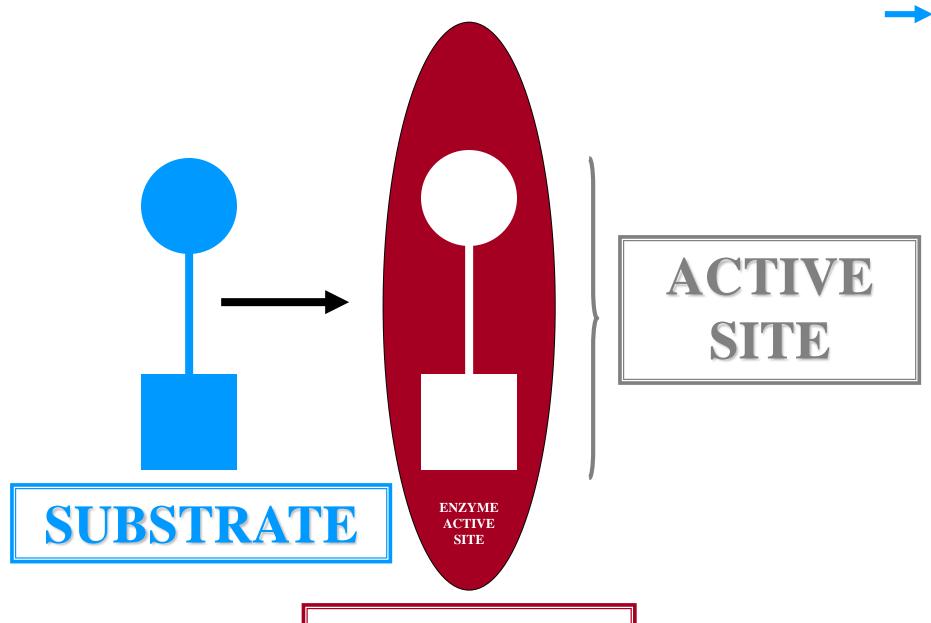
"IOCK & KEY" ANALOGY OR "INDUCED FIT" ANALOGY

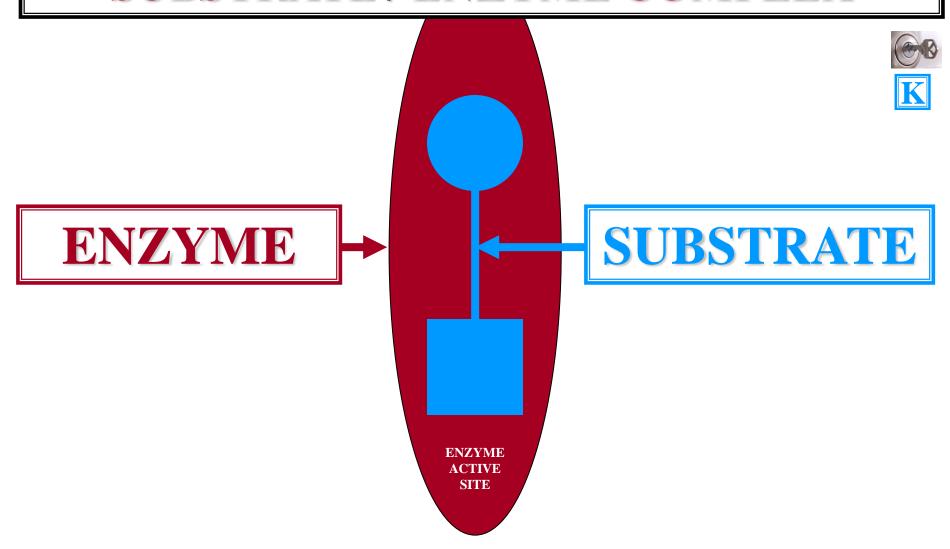
"LOCK&KEY" ANALOGY



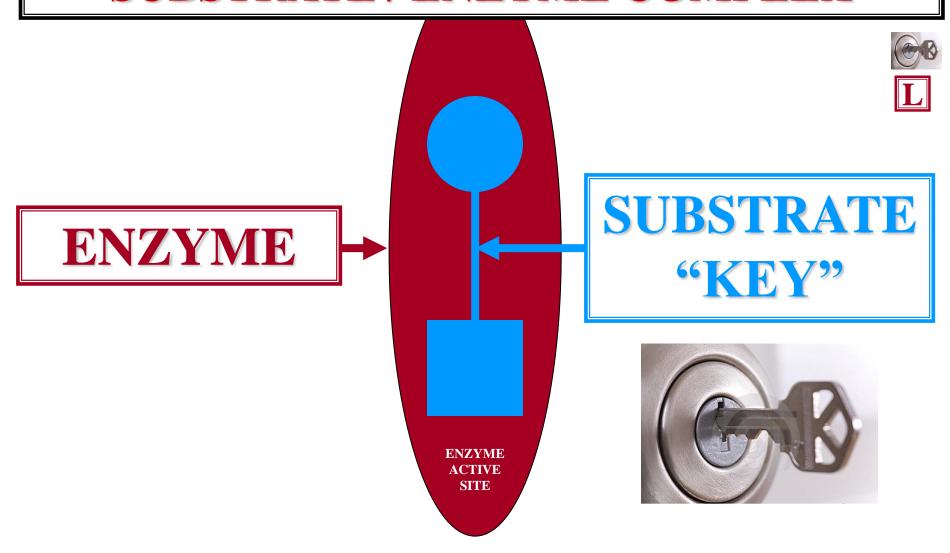




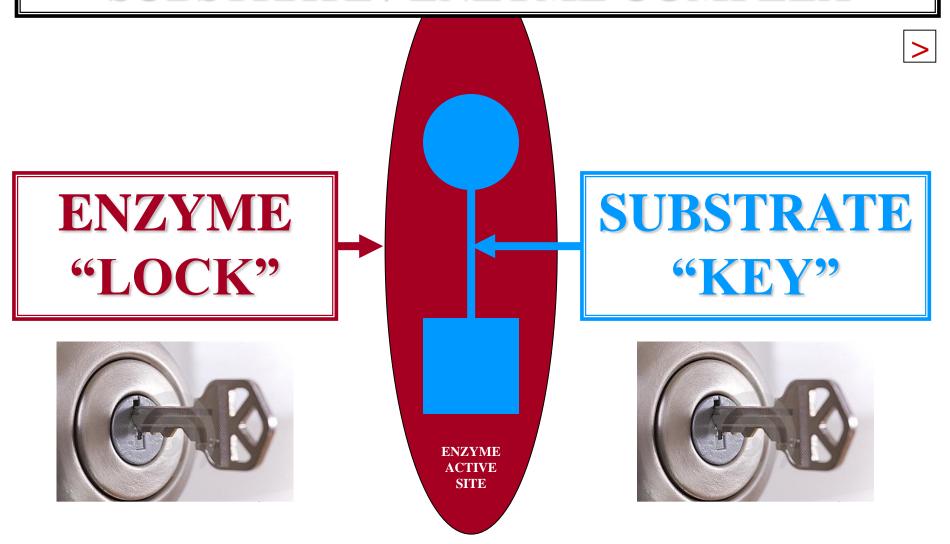




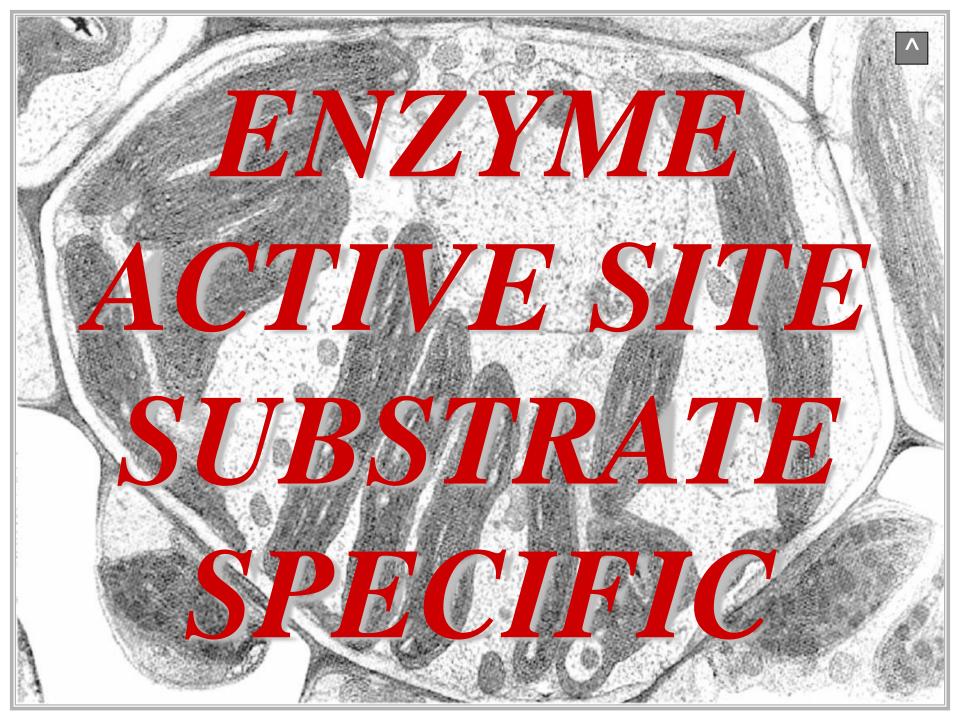
LOCK & KEY ANALOGY



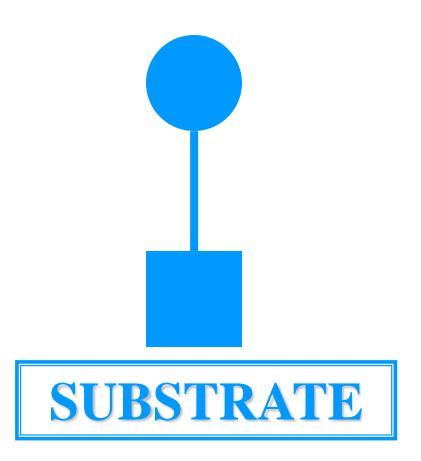
LOCK & KEY ANALOGY

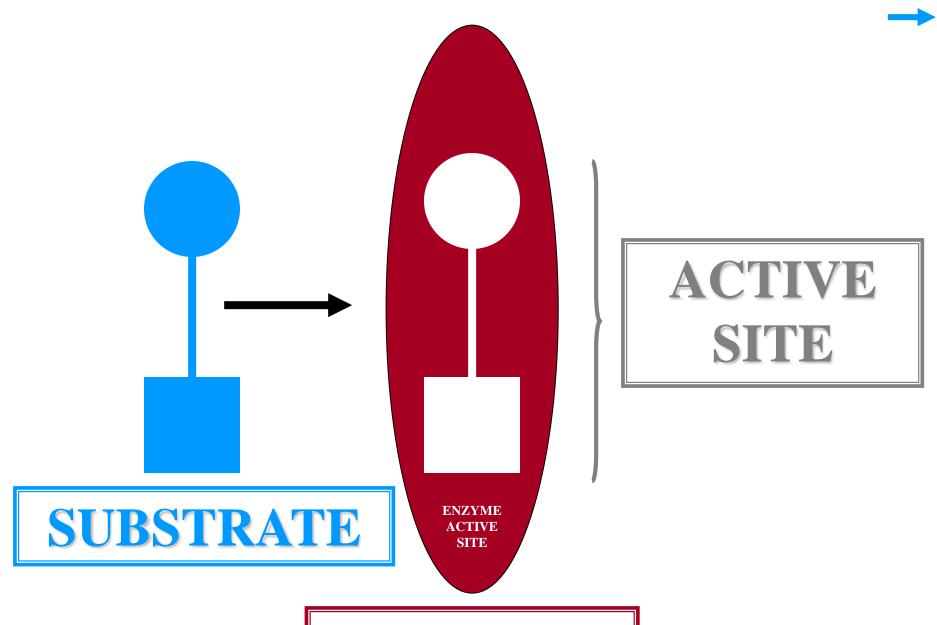


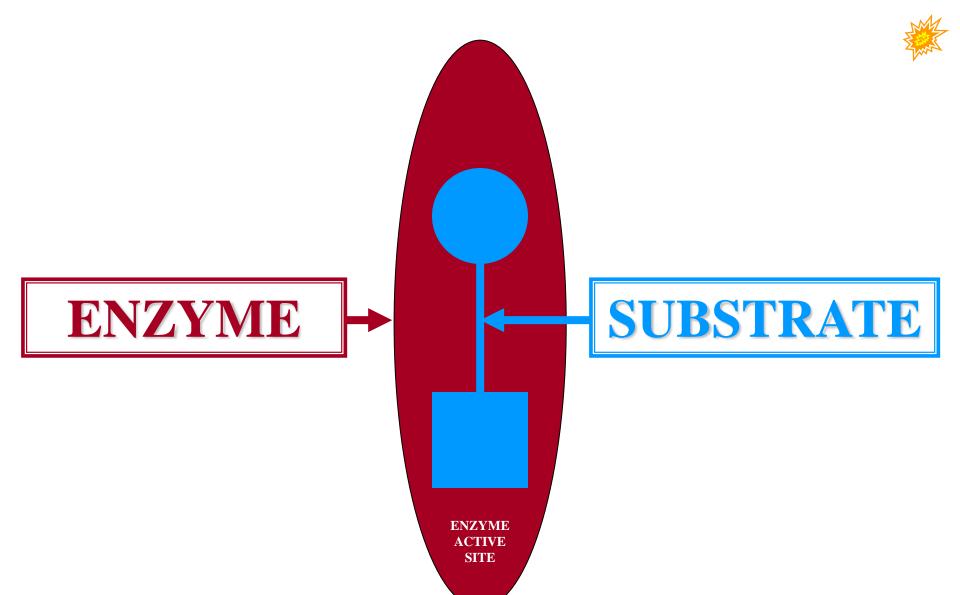
LOCK & KEY ANALOGY

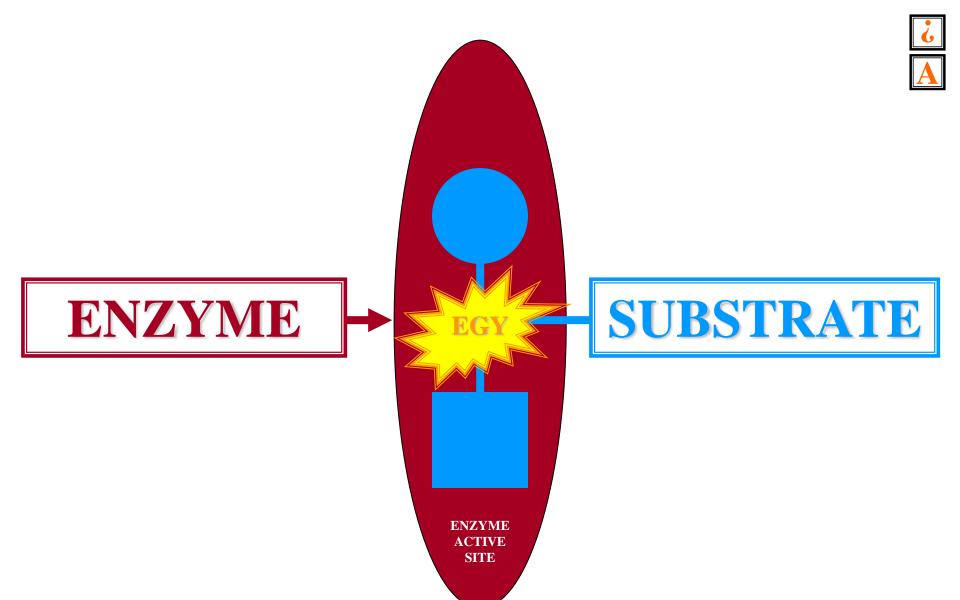


SUBSTRATE ENZYME INTERACTION APPLIED



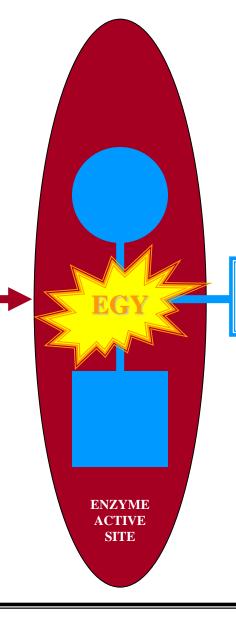






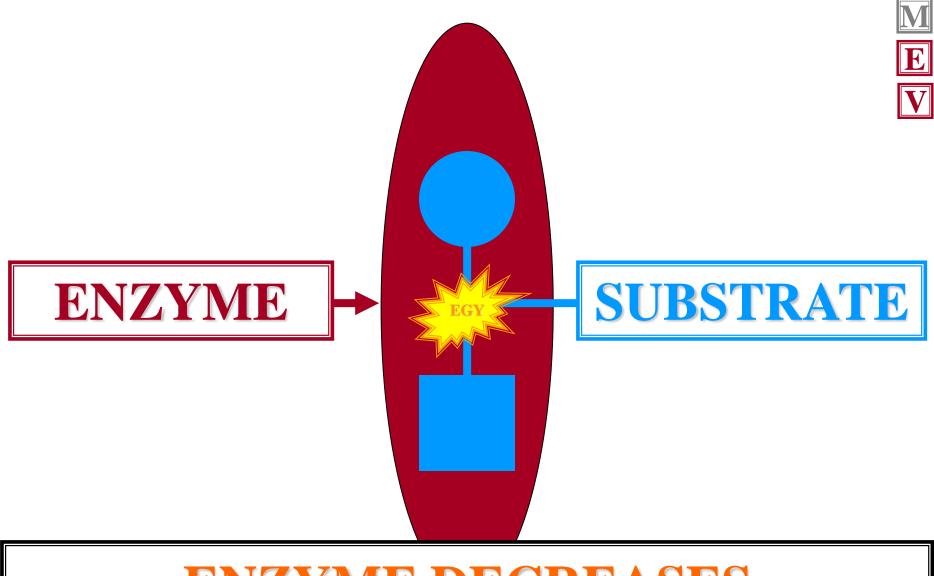
ENERGY INPUT



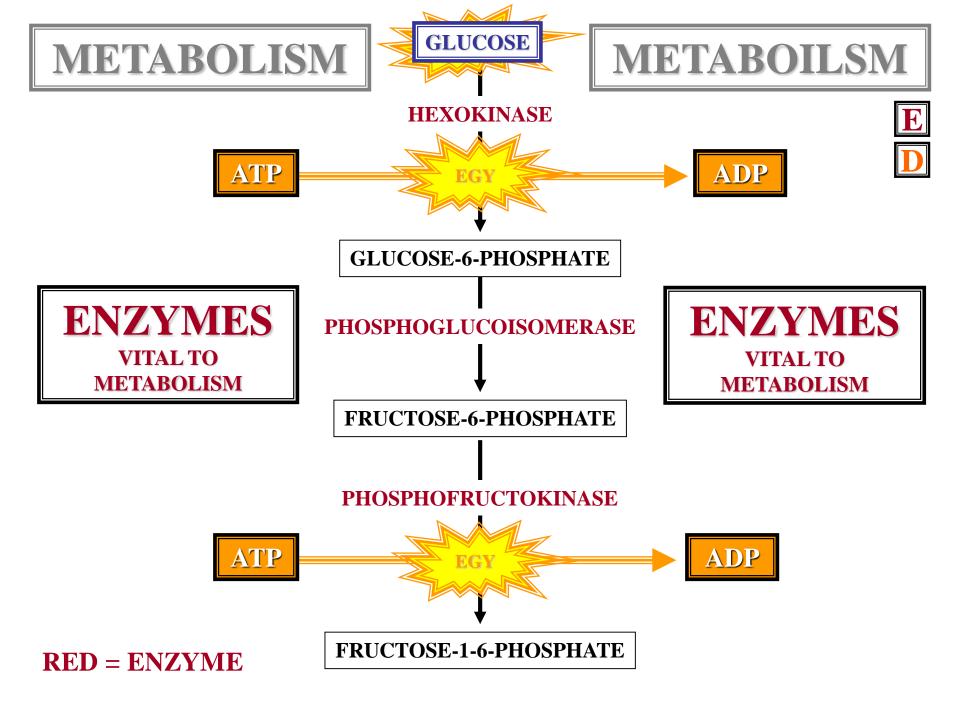


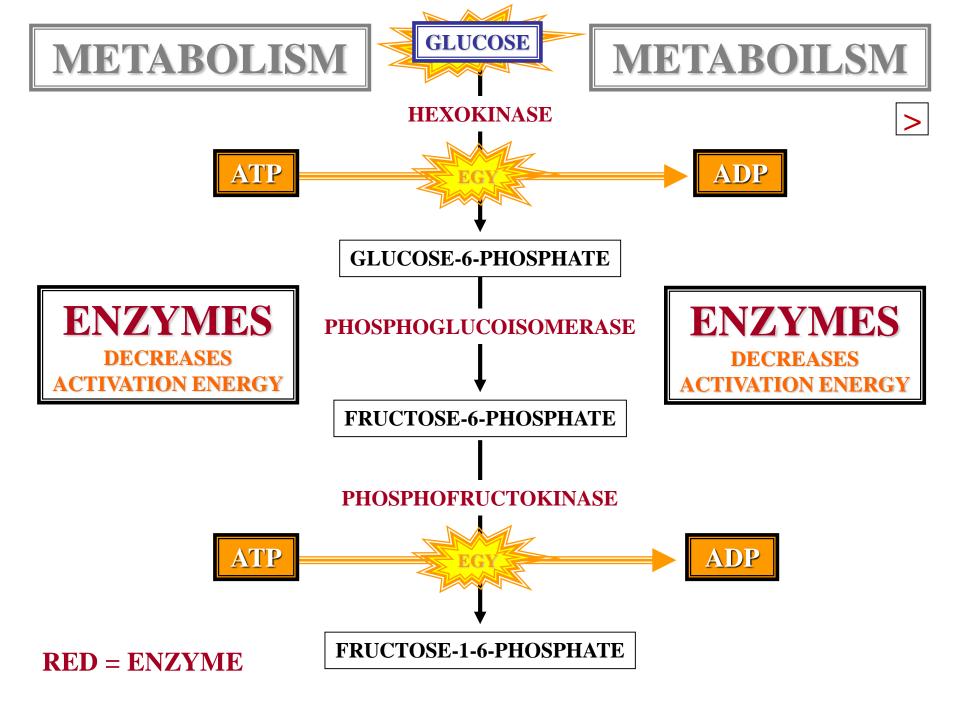
SUBSTRATE

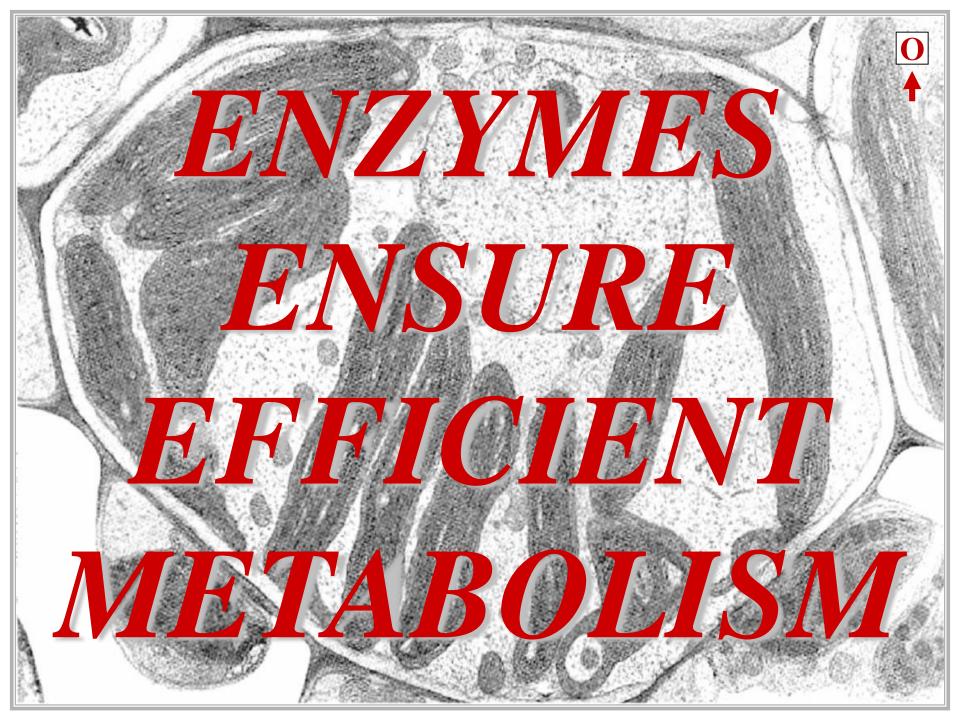
ACTIVATION ENERGY

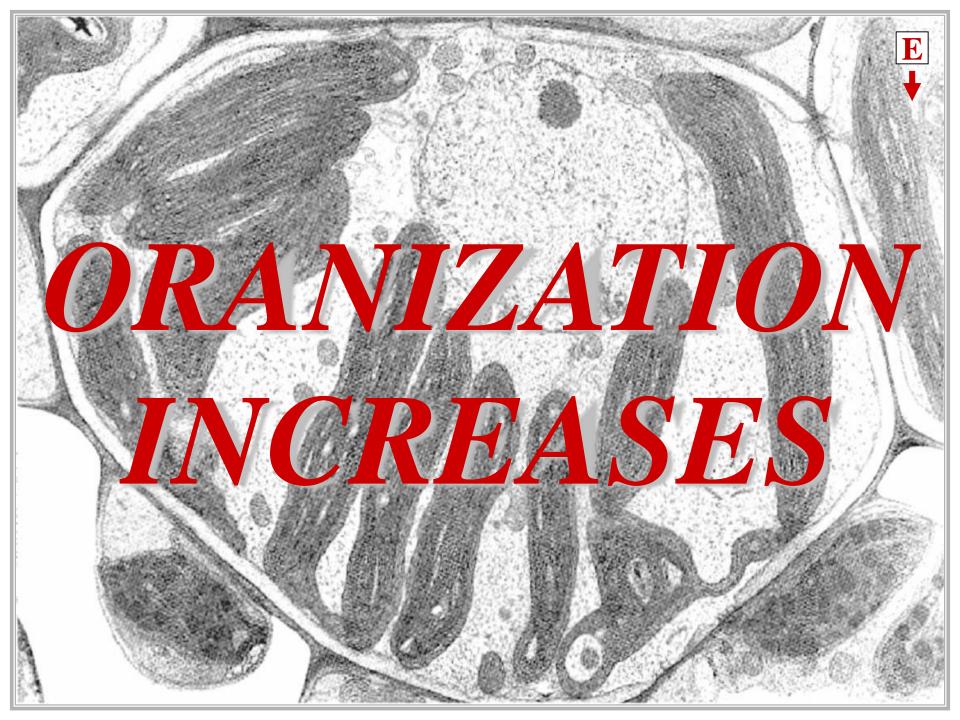


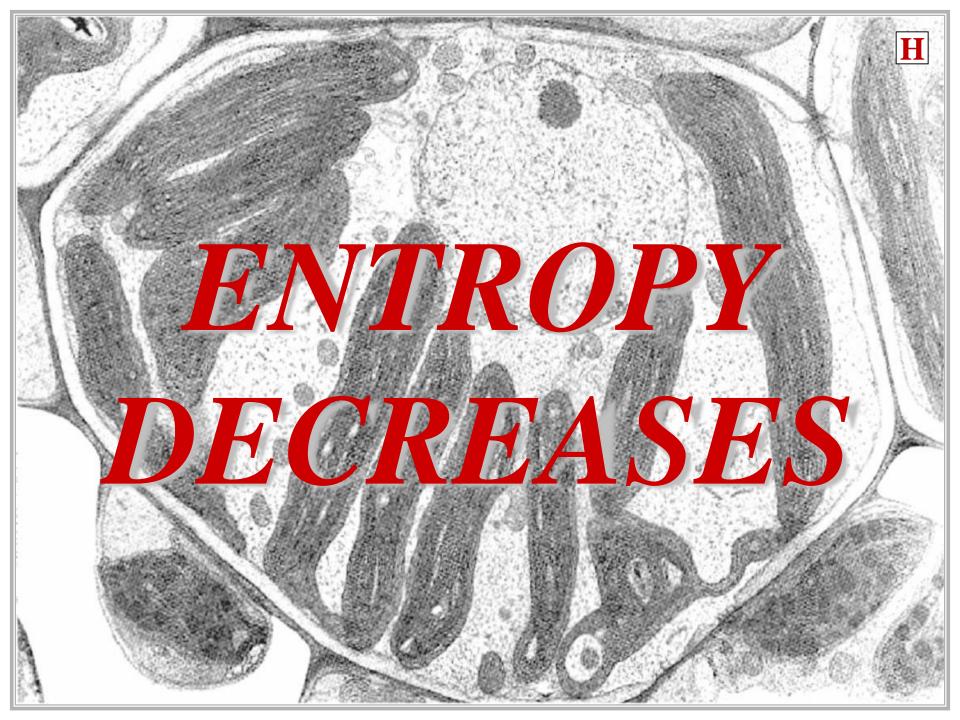
ENZYME DECREASES ACTIVATION ENERGY







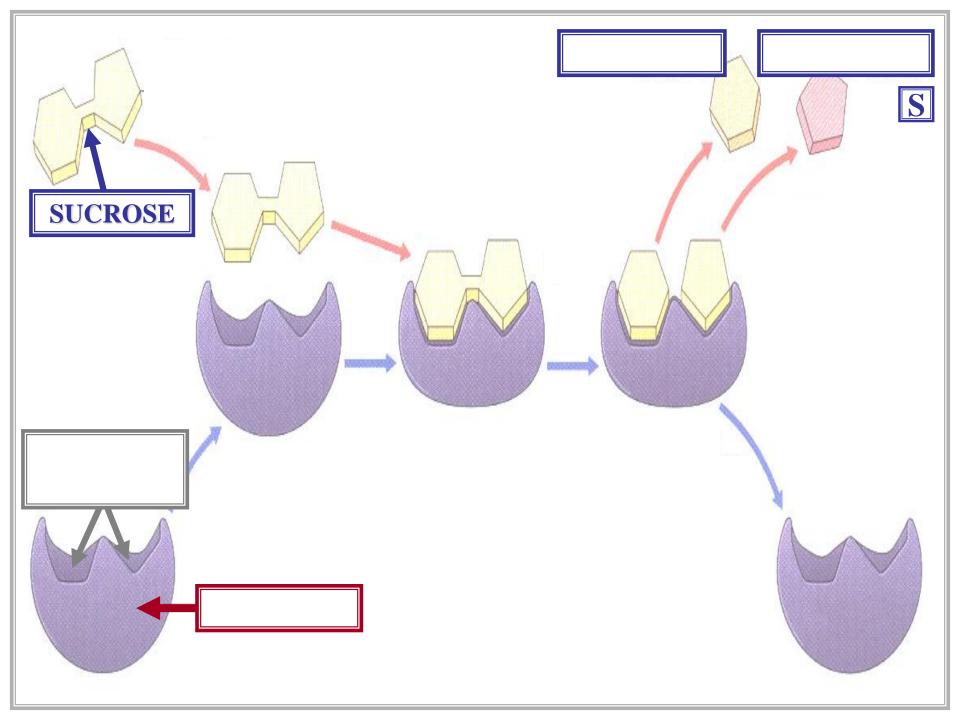


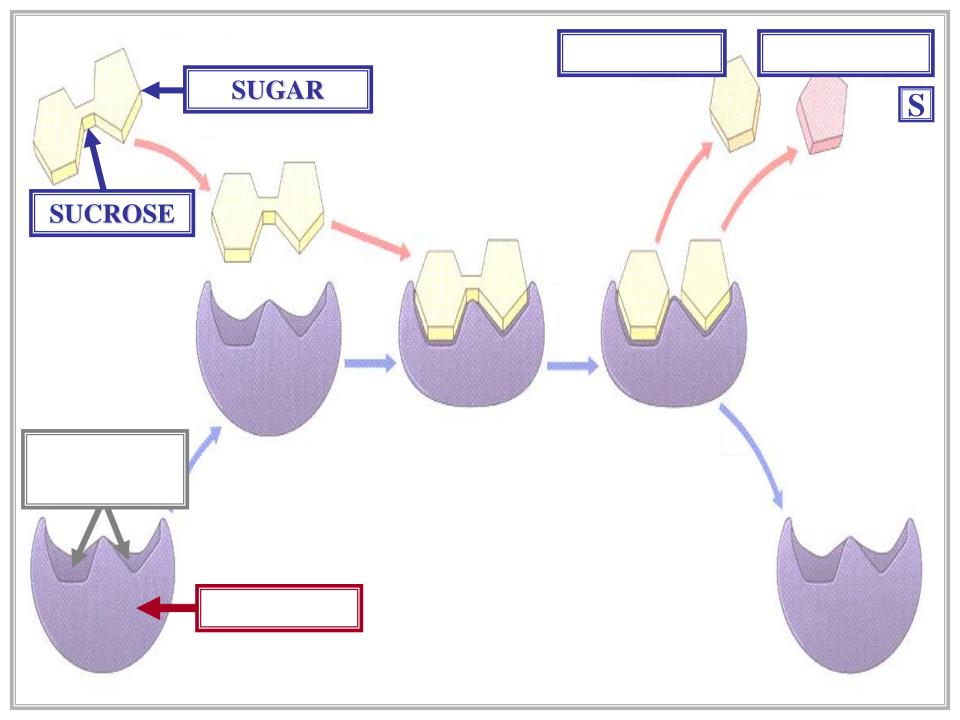


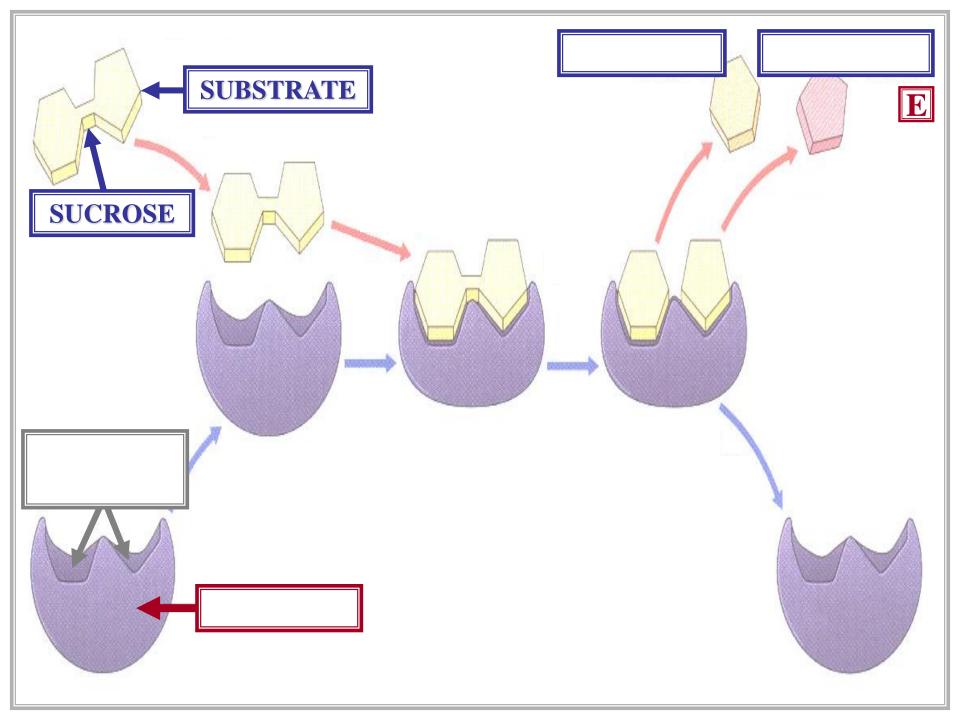


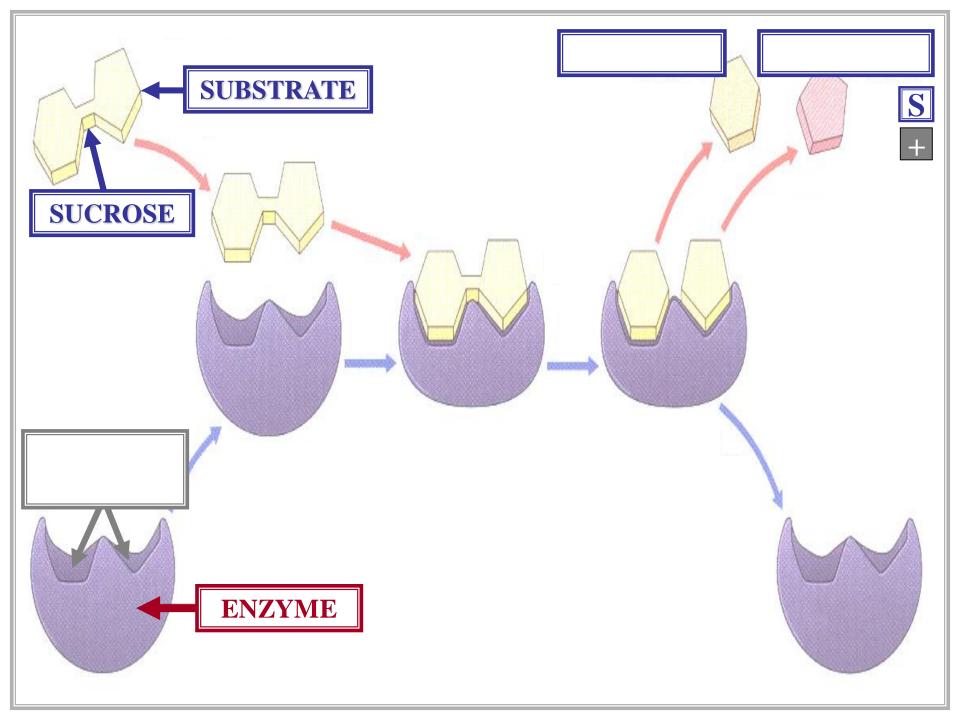


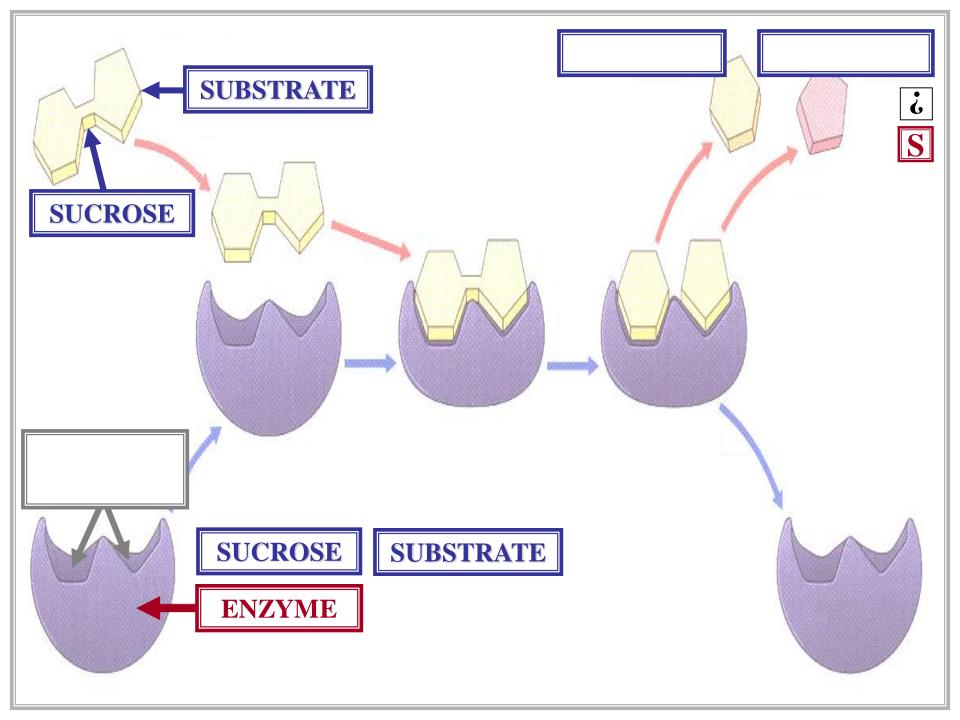
SUBSTRATE N. ENZYME INTERACTION SUMMARY

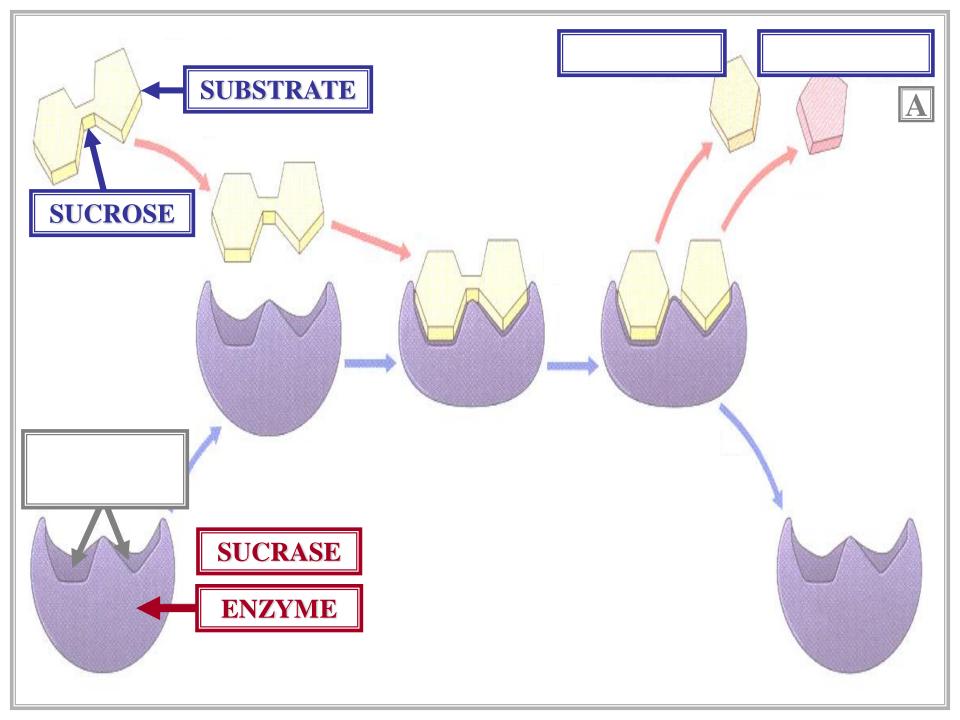


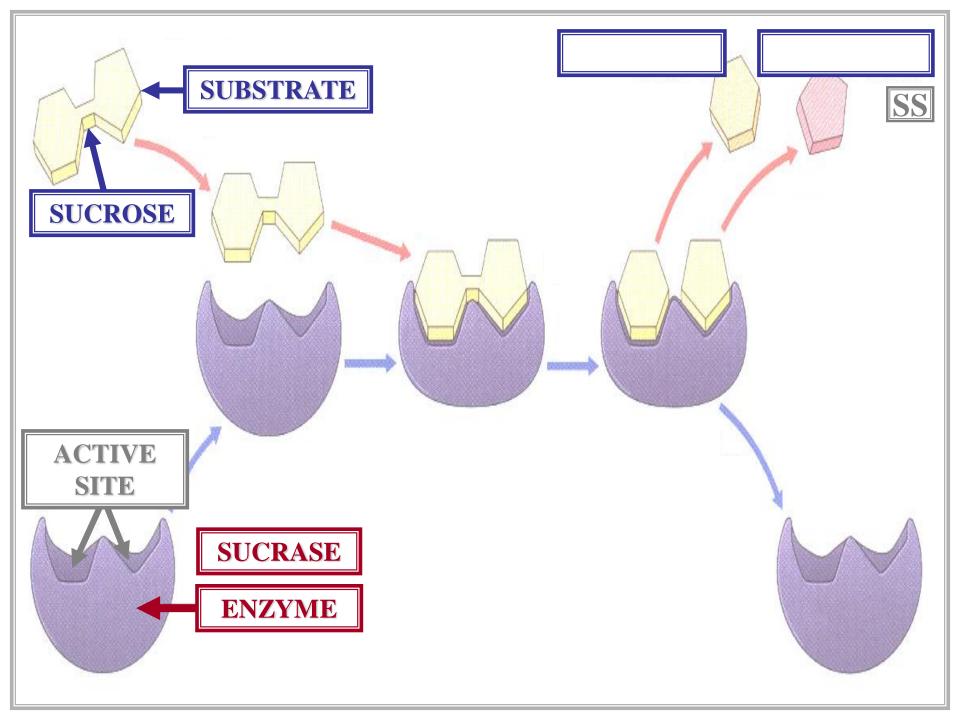


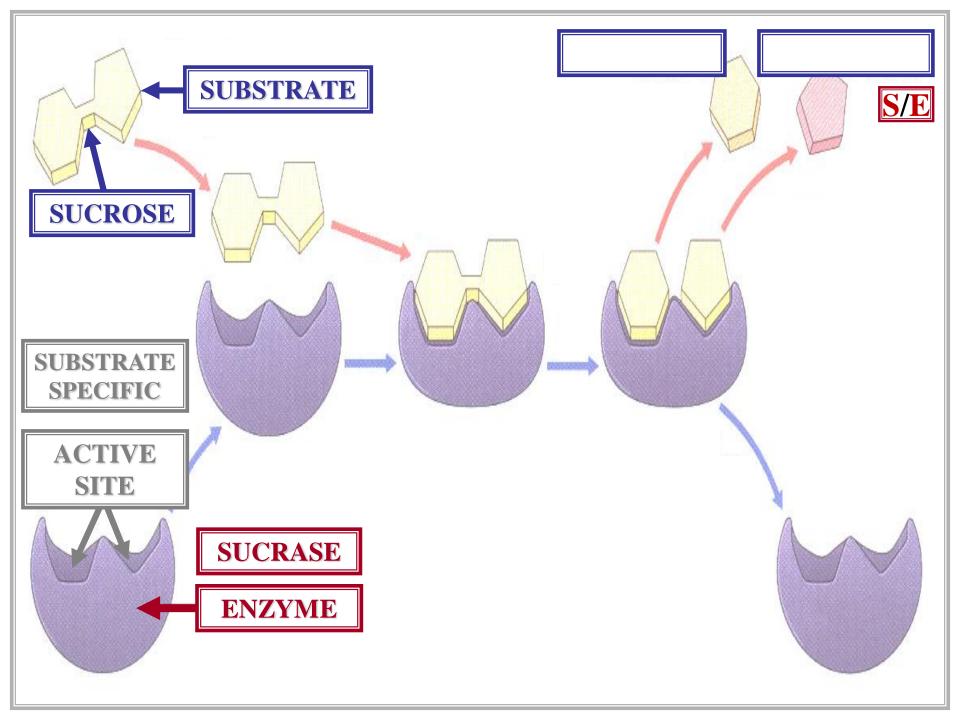


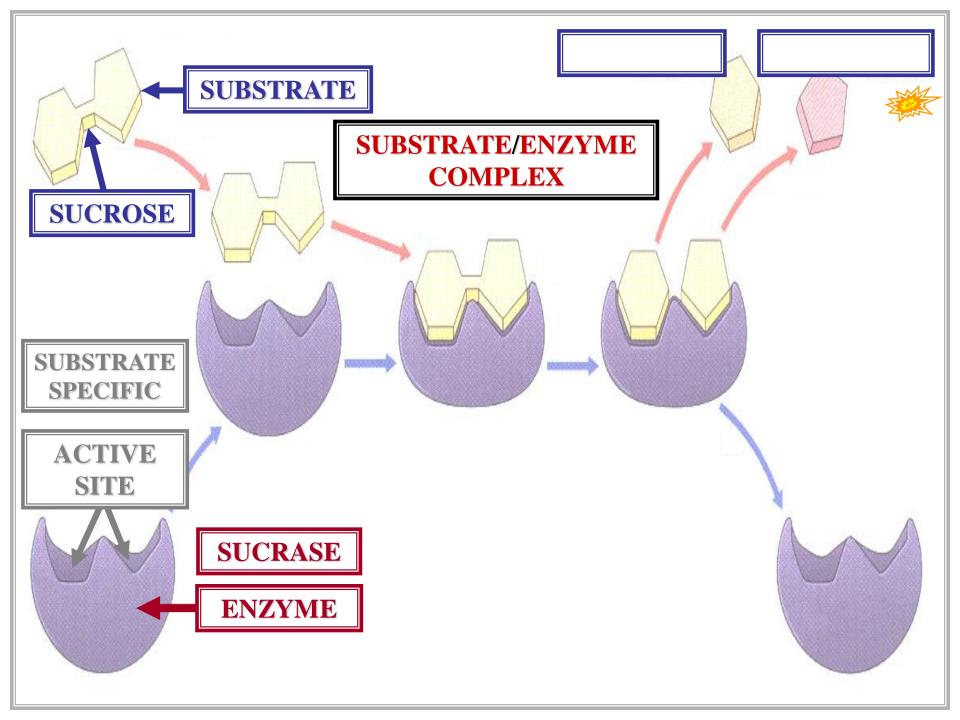


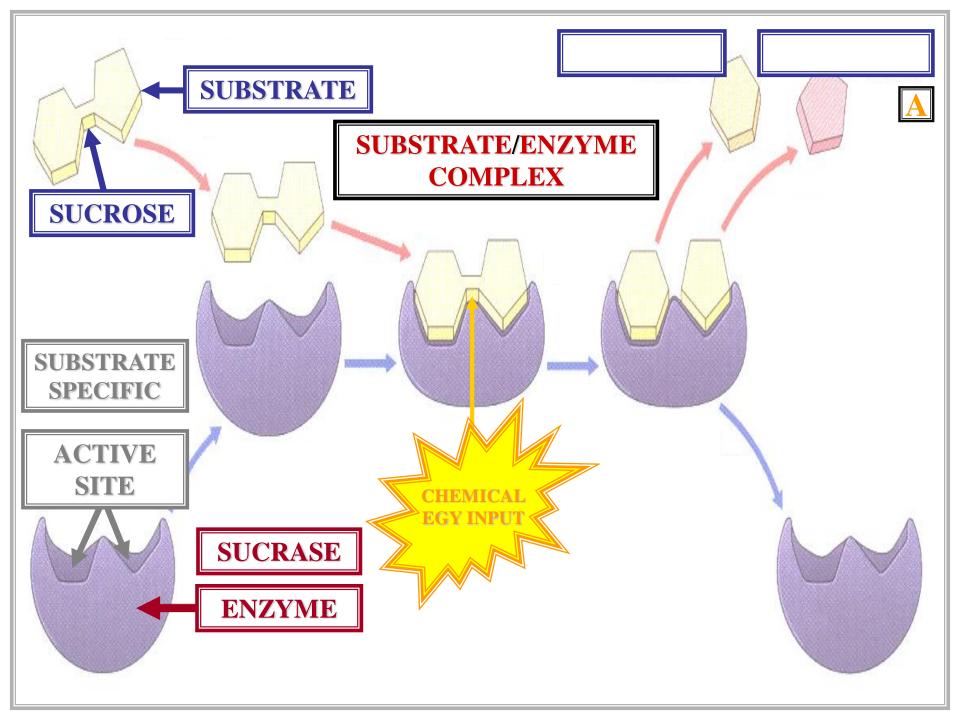


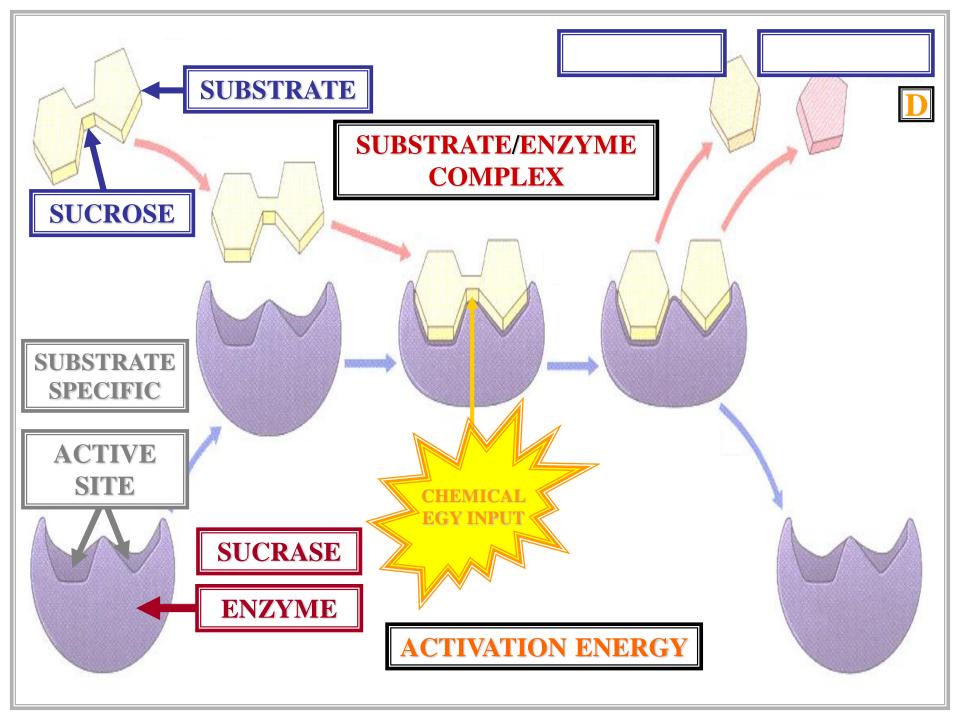


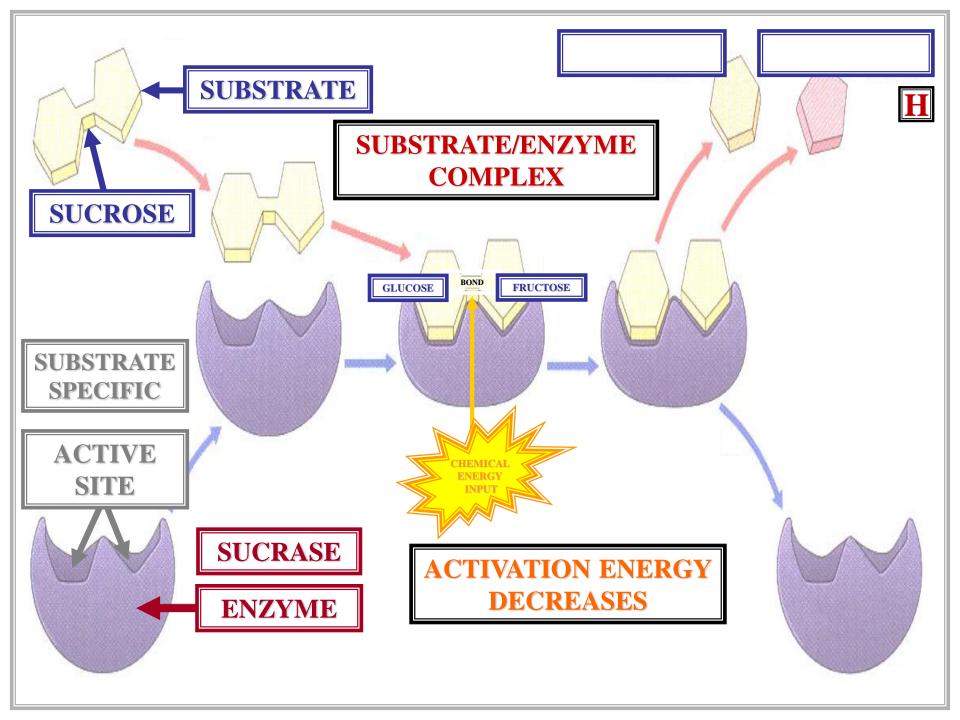


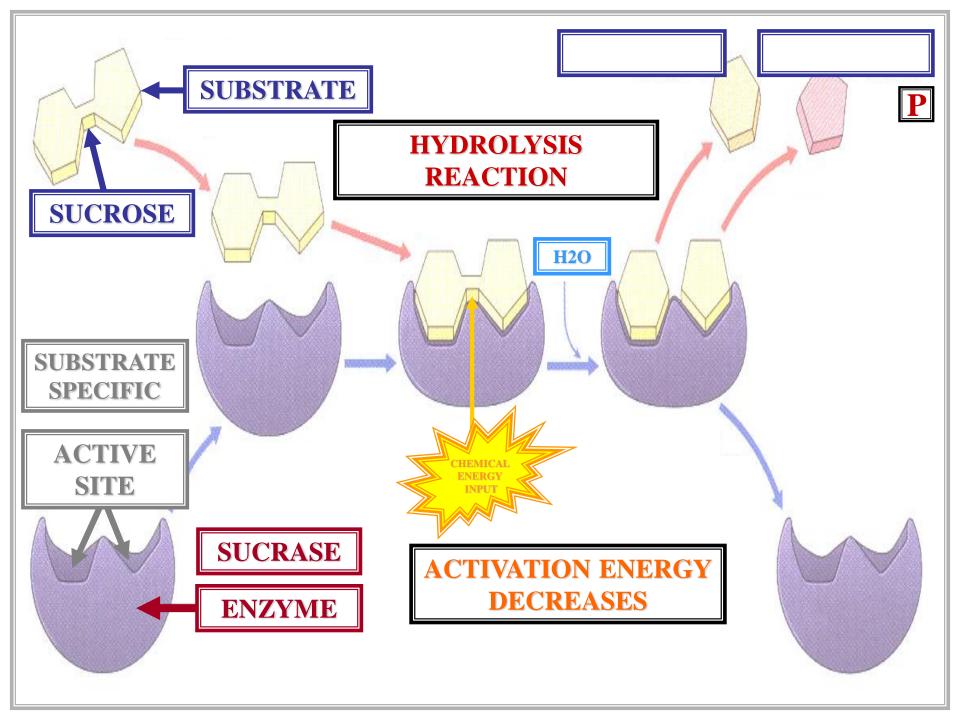


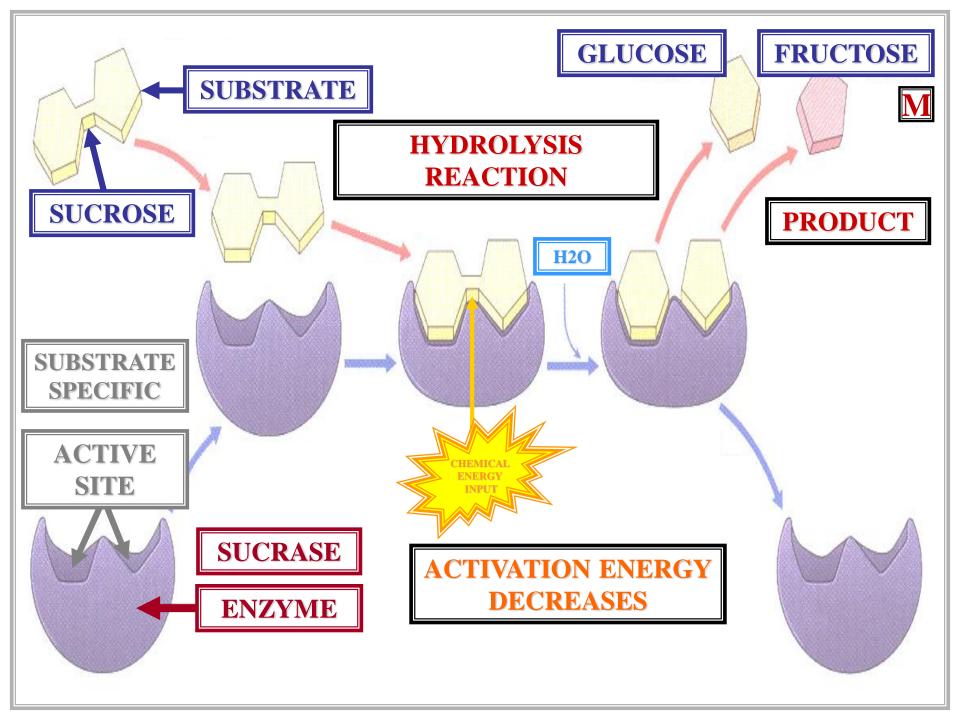


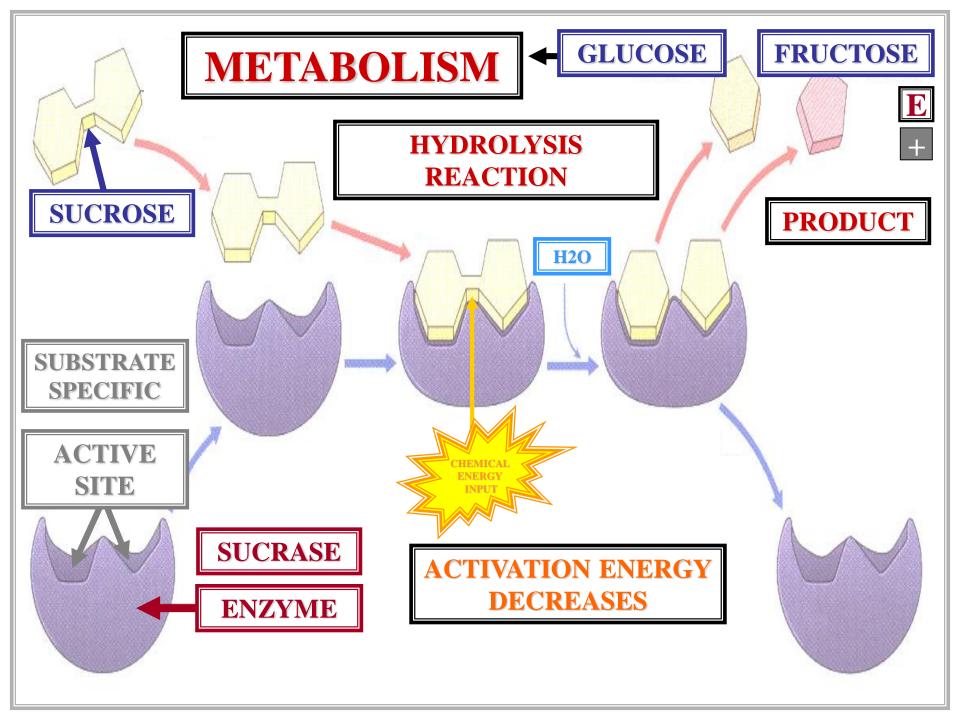


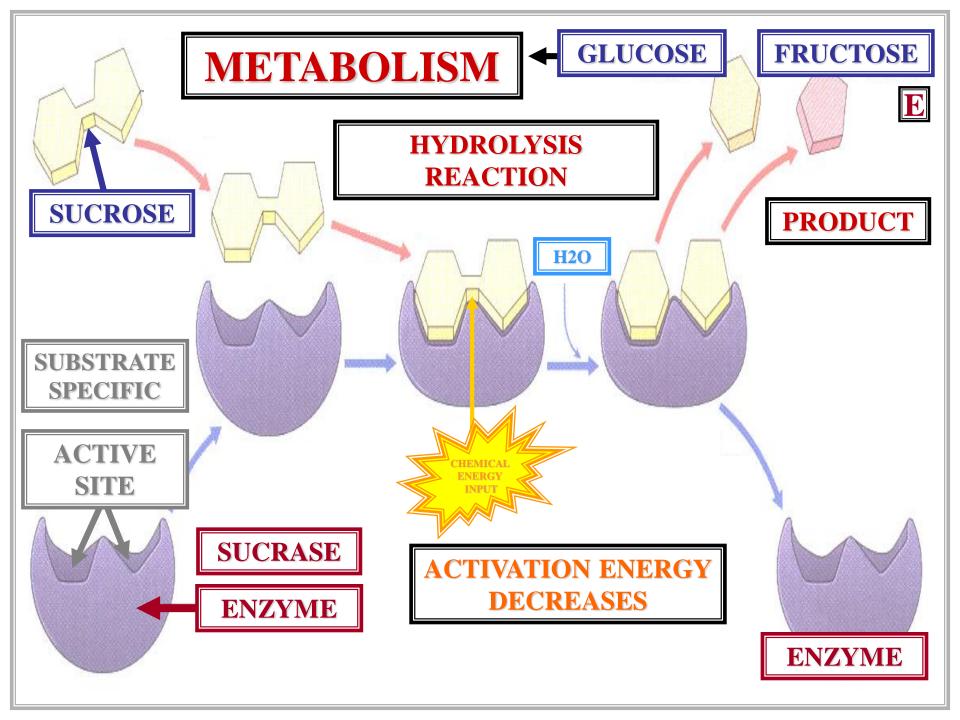


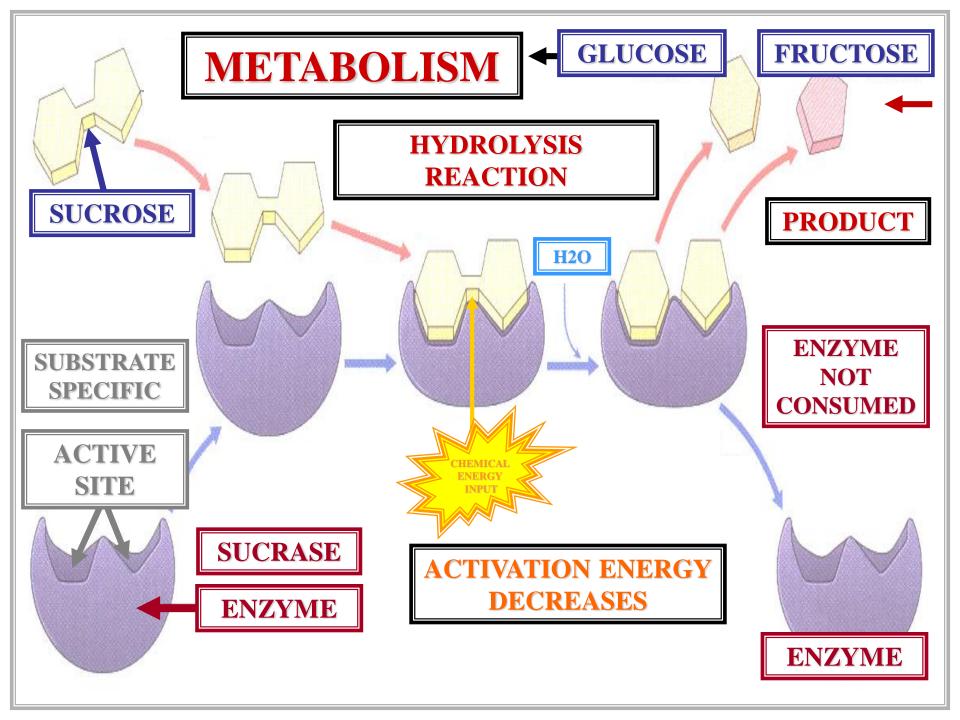


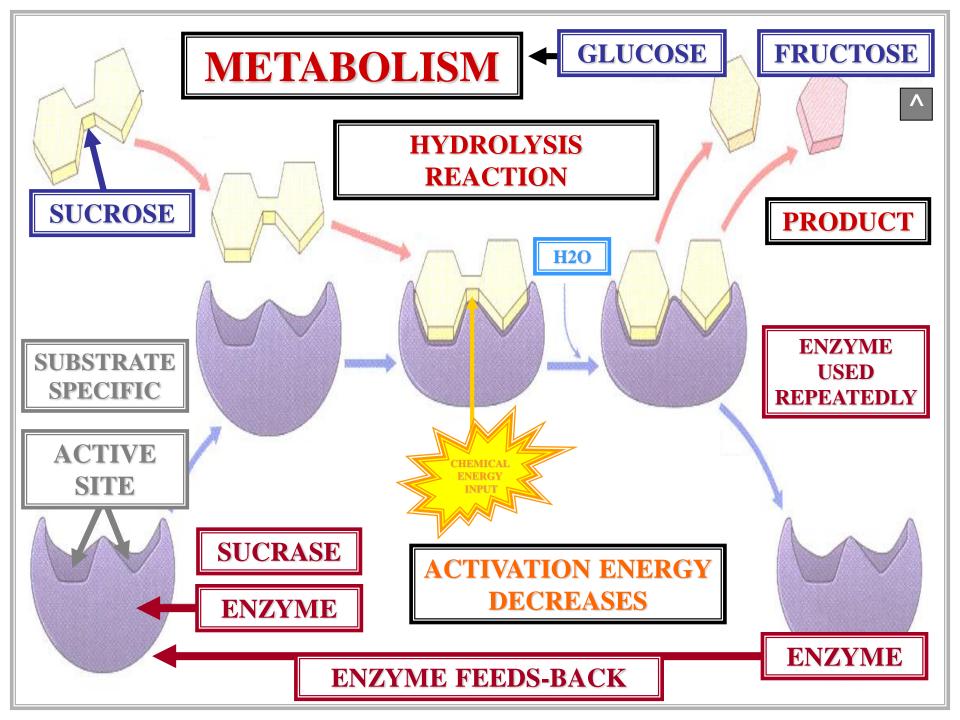














CO-FACTORS

CO-FACTOR

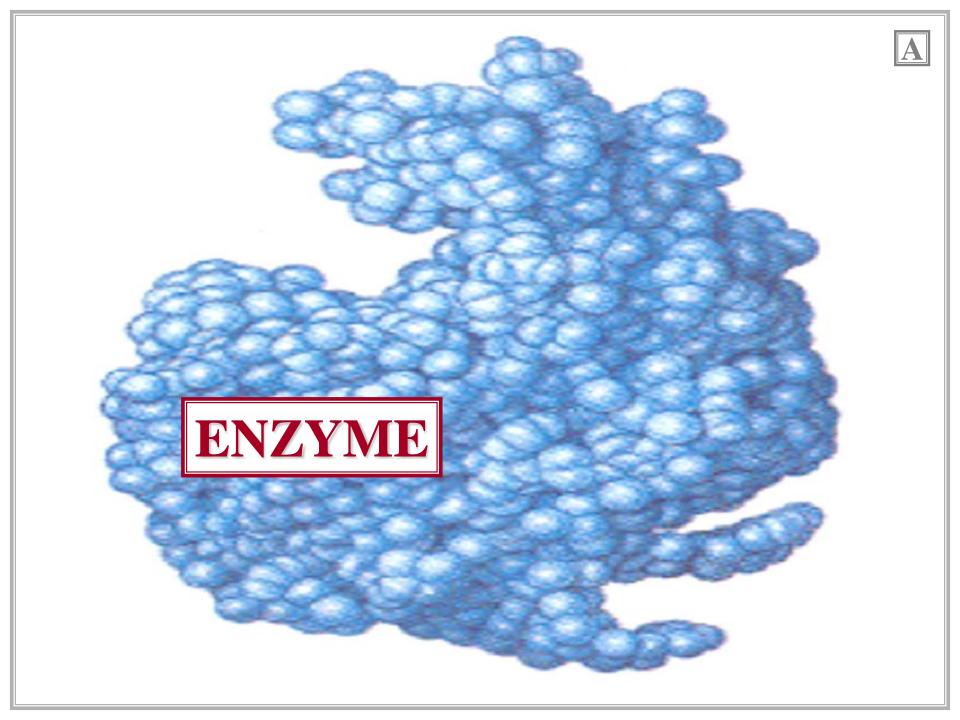


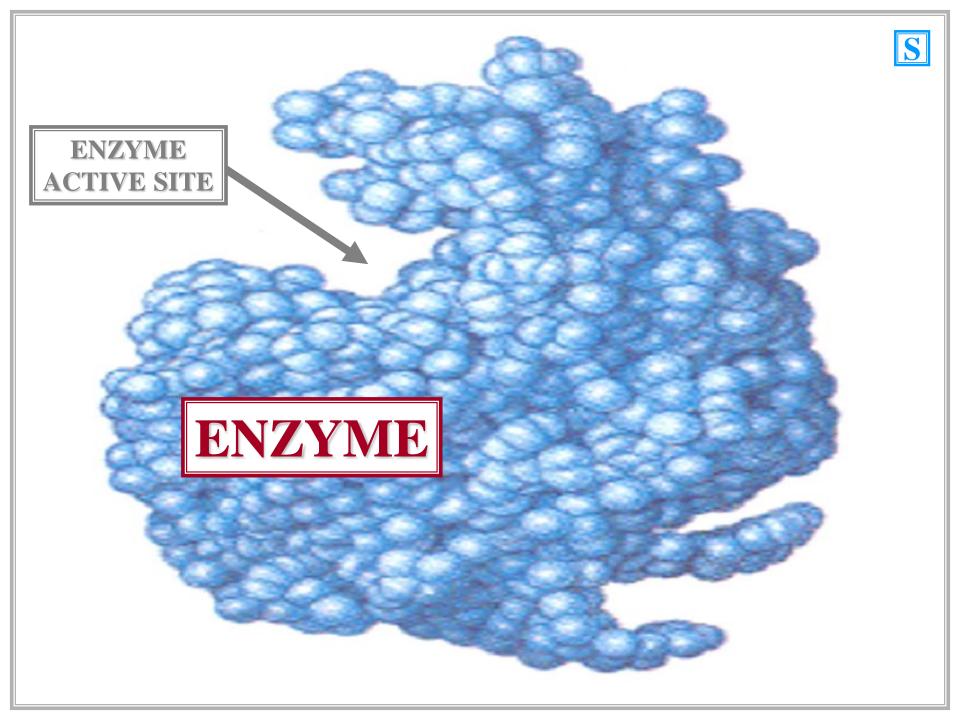


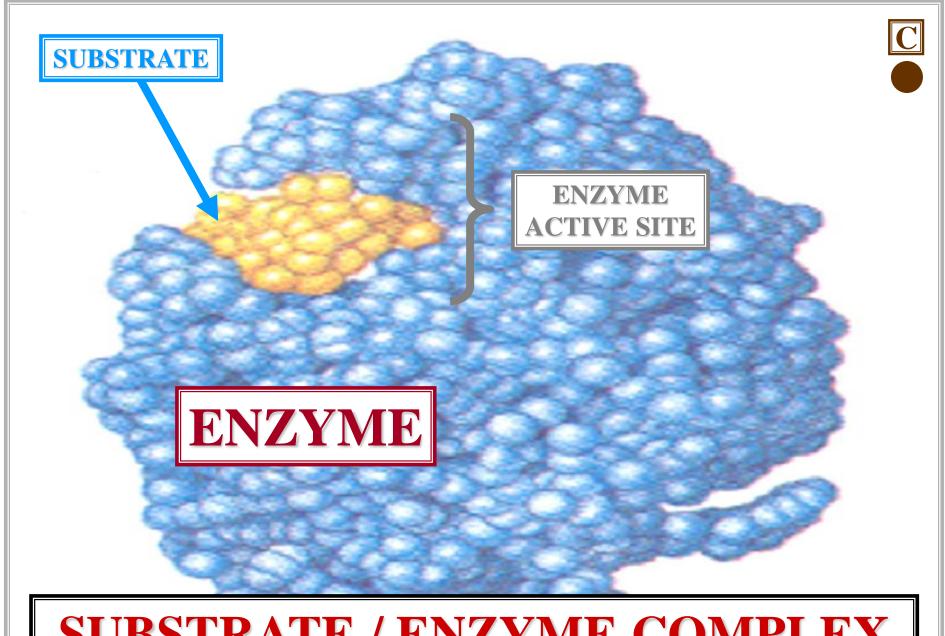
CO-FACTOR

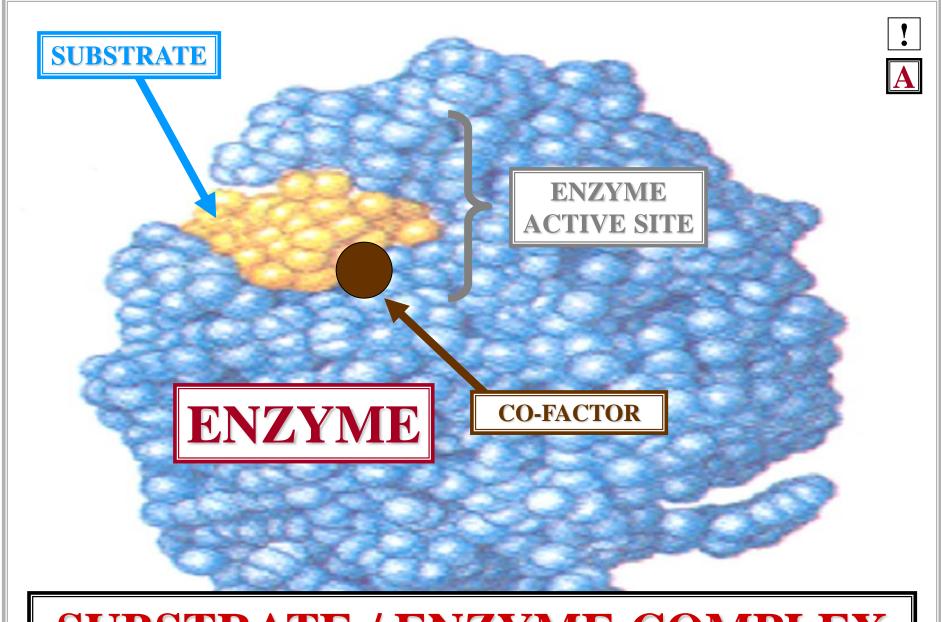
INORGANIC OR ORGANIC ENZYME PROMOTOR

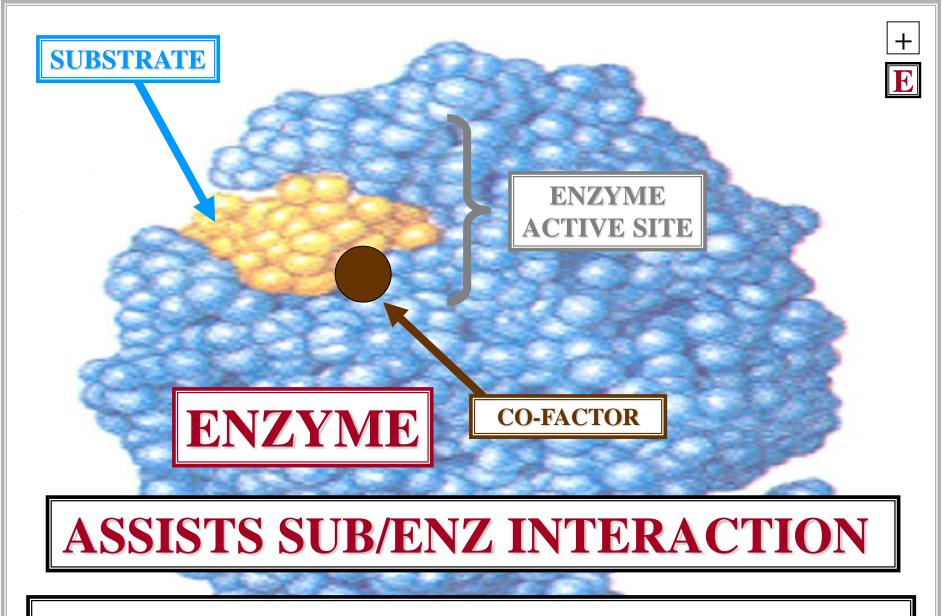
CO-FACTOR

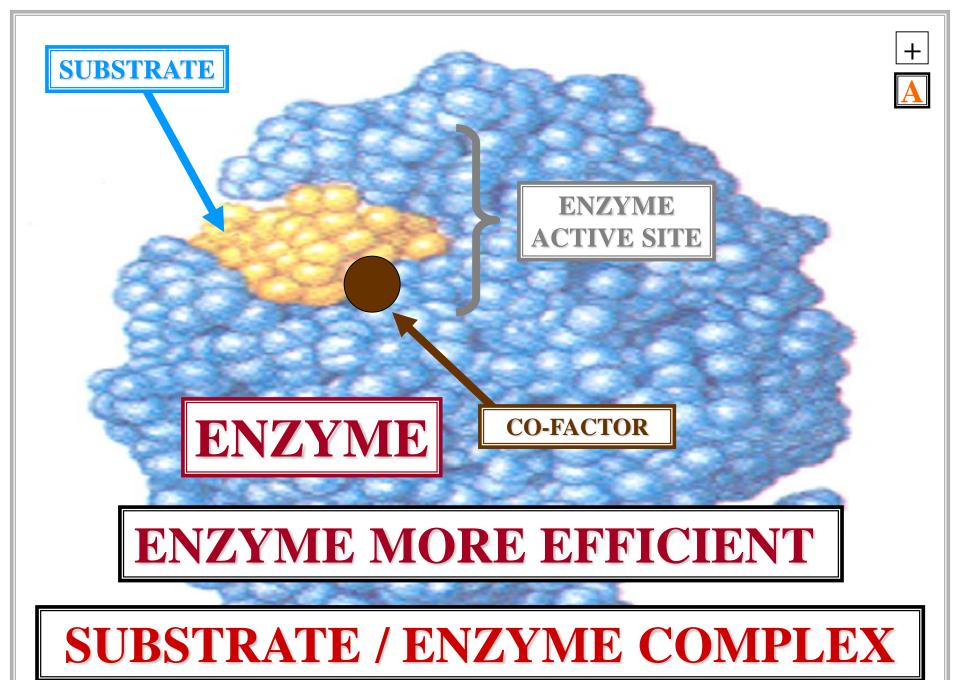


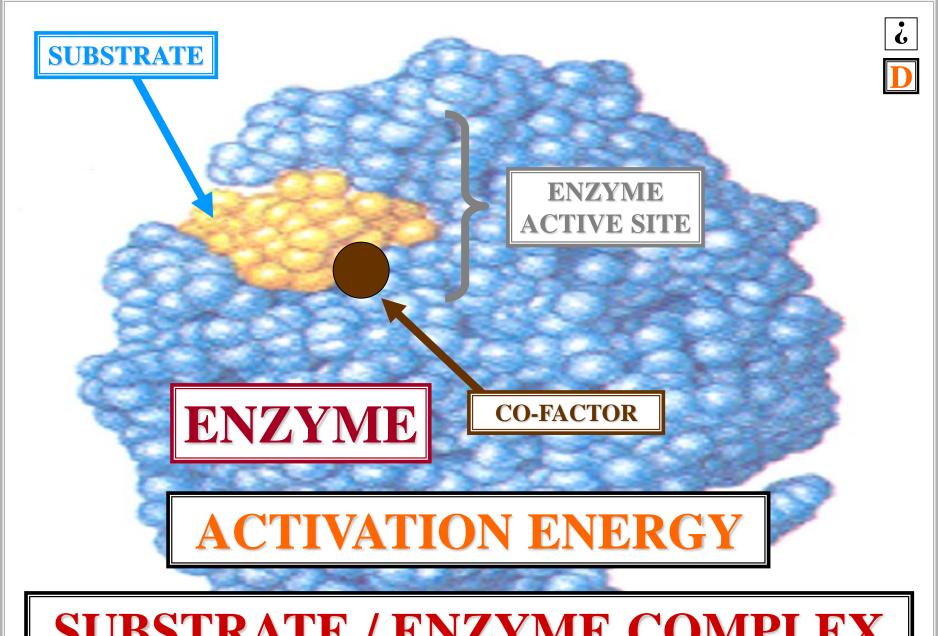


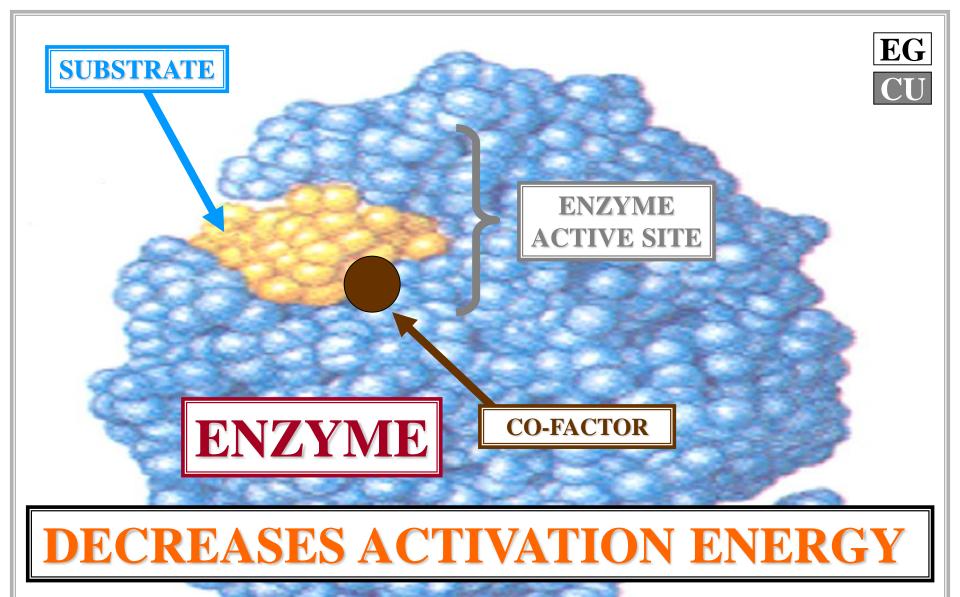


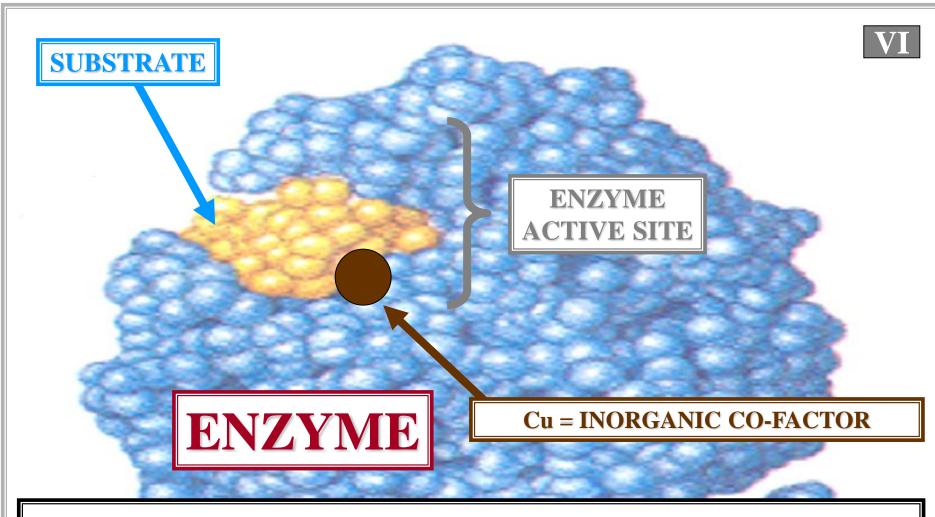




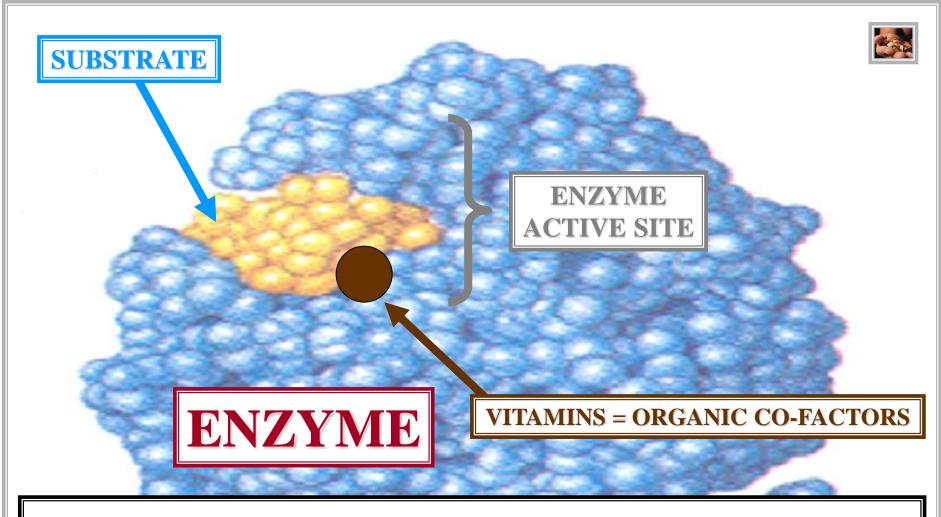




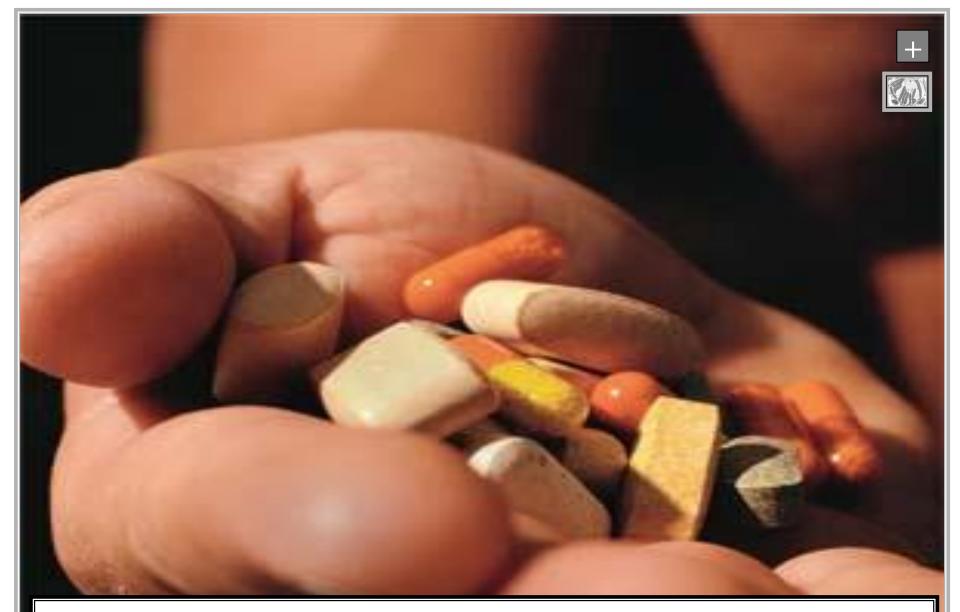




DECREASES ACTIVATION ENERGY



DECREASES ACTIVATION ENERGY



VITAMINS = ORGANIC COFACTORS

