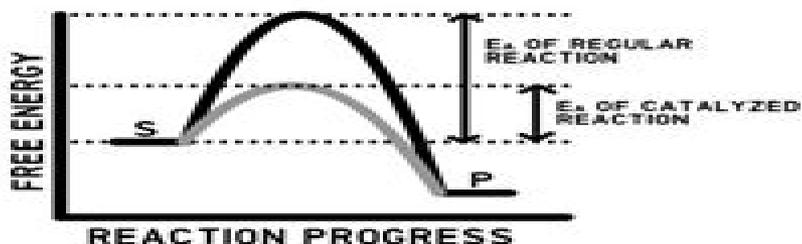


ENZYME KINETICS

QUICK REFERENCE SHEET

WHAT DO ENZYMES DO?



ENZYMES CATALYZE BIOCHEMICAL REACTIONS BY STABILIZING THE TRANSITION STATE

VARIABLES TO KNOW

S - SUBSTRATE E - ENZYME P - PRODUCT

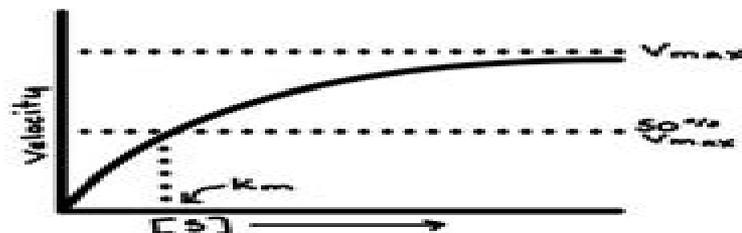
V_{MAX} - MAXIMUM VELOCITY, WHEN ALL ENZYMES ACTIVE SITE ARE FILLED WITH SUBSTRATE

K_M - SUBSTRATE CONCENTRATION AT 50% V_{MAX}

K_{CAT} - RATE SUBSTRATE IS CONVERTED TO PRODUCT

K_I - INHIBITOR CONCENTRATION AT 50% ENZYME INHIBITION

MICHAELIS-MENTEN KINETICS



TYPES OF INHIBITION



PHYSICALLY BLOCKS ACTIVE SITE

COMPETITIVE

$K_{M,IC}$: INCREASES

V_{MAX} : UNAFFECTED

FITS IN ALLOSTERIC SITE



CHANGES ACTIVE SITE SHAPE

NONCOMPETITIVE

$K_{M,IC}$: UNAFFECTED

V_{MAX} : DECREASES

BINDS TO ES COMPLEX



UNCOMPETITIVE

$K_{M,IC}$: DECREASES

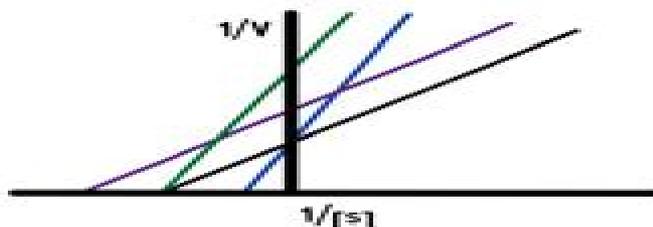
V_{MAX} : DECREASES

LINEWEAVER-BURK PLOT

SLOPE: K_M/V_{MAX}

X-INTERCEPT: $-1/K_M$

Y-INTERCEPT: $1/V_{MAX}$



- NO INHIBITOR
- COMPETITIVE INHIBITOR
- NONCOMPETITIVE INHIBITOR
- UNCOMPETITIVE INHIBITOR

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Yi-Tong Ma



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