Competitive/Non-competitive Inhibitor VENN

Slide show by Kelly Riedell/Brookings Biology

2020 CED

LEARNING OBJECTIVE ENE-1.F Explain how changes to the structure of an enzyme may affect its function.

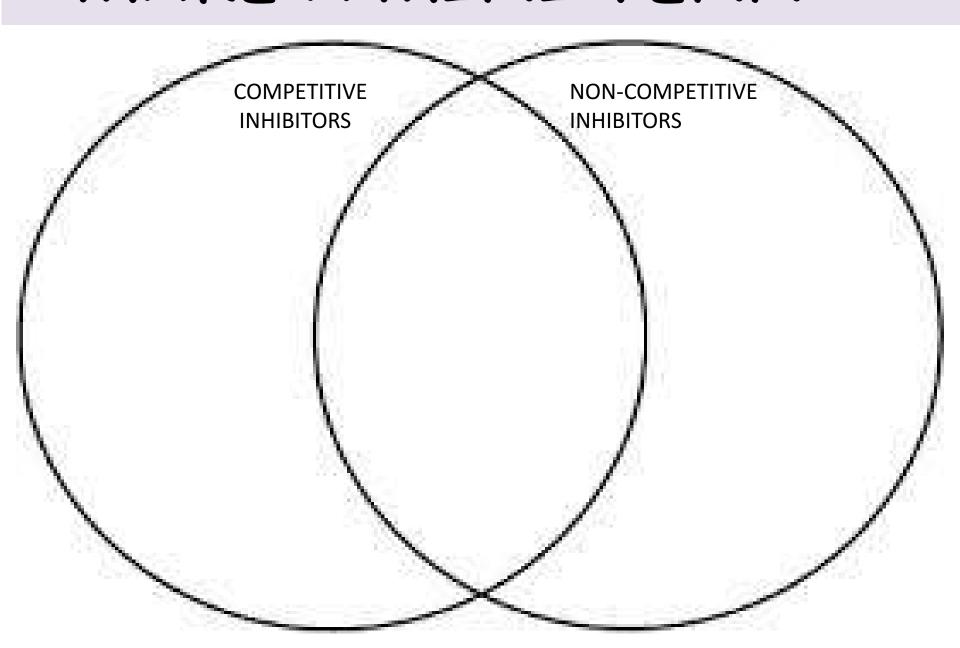
ESSENTIAL KNOWLED

ENE-1.F.1 Change to the molecular structure of a component in an enzymatic system may result in a change of the function or efficiency of the system—

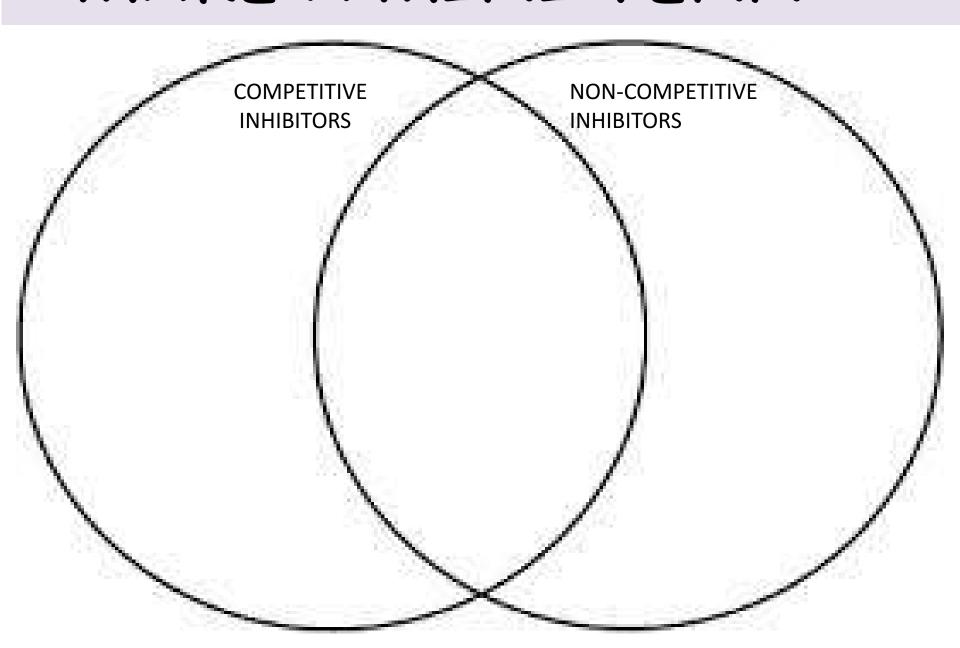
ENE-1G.4 Competitive inhibitor molecules can bind reversibly or irreversibly to the active site of the enzyme. Noncompetitive inhibitors can bind allosteric sites, changing the activity of the enzyme.

SP 2.D Represent relationships within biological models, including b. Diagrams

MAKE A MINI VENN



MAKE A MINI VENN



COMPETITUE INHIBITION

(a) Reaction substrate active site enzyme · Reaction occurs and Substrate molecule binds product molecules are with active site of enzyme (b) Inhibition molecule generated inhibitoractive site enzyme Inhibitor molecule binds Inhibitor molecule prevents the binding of substrate molecule with the active site of enzyme molecule

NON-COMPETITVE (ALLOSTERIC) INHIBITION

