

Homework 9

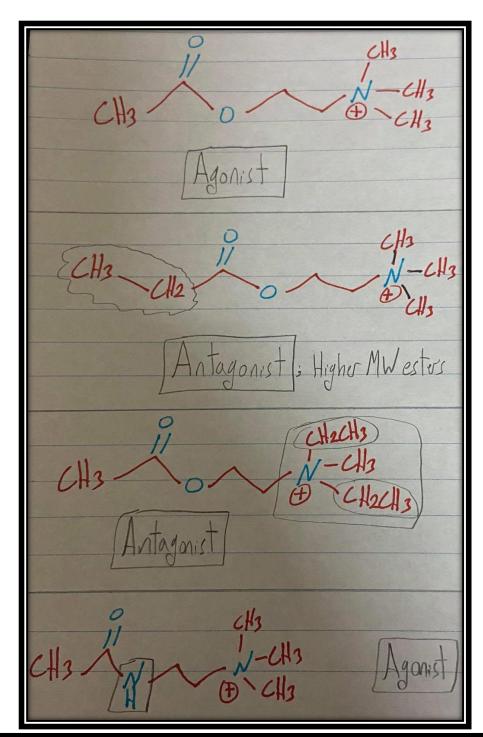
Medicinal Chemistry 1

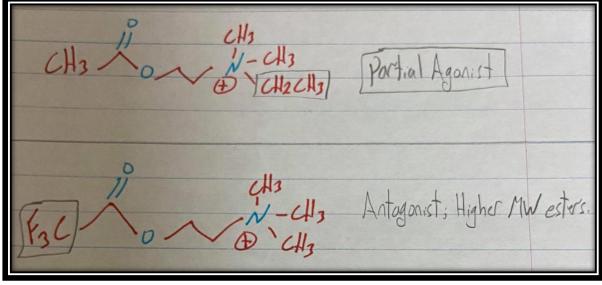
Cholinergics, Anticholinergics and Anticholinesterases

Instructor Amin Thawabteh

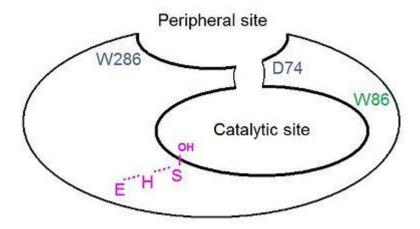
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2- (4) There are many of binding interaction that holding Ach in binding site of AChE. Tryptophan residue forms π - cation interaction(N on the Ach has a positive charge and active site of AChE has a negative charge so do ionic interaction with N-cationic Quternery Amine, Histidine acts as Acid-Base catalyst, Serine acts as nucleophile, Aspartate residue interacts with Histidine residue to orientate and active the ring



3- (6) Selective to M2 receptor, no effect of ionic strength because of the distance between N and O. However, Pilocarpine does not have quaternary ammonium group. (!)