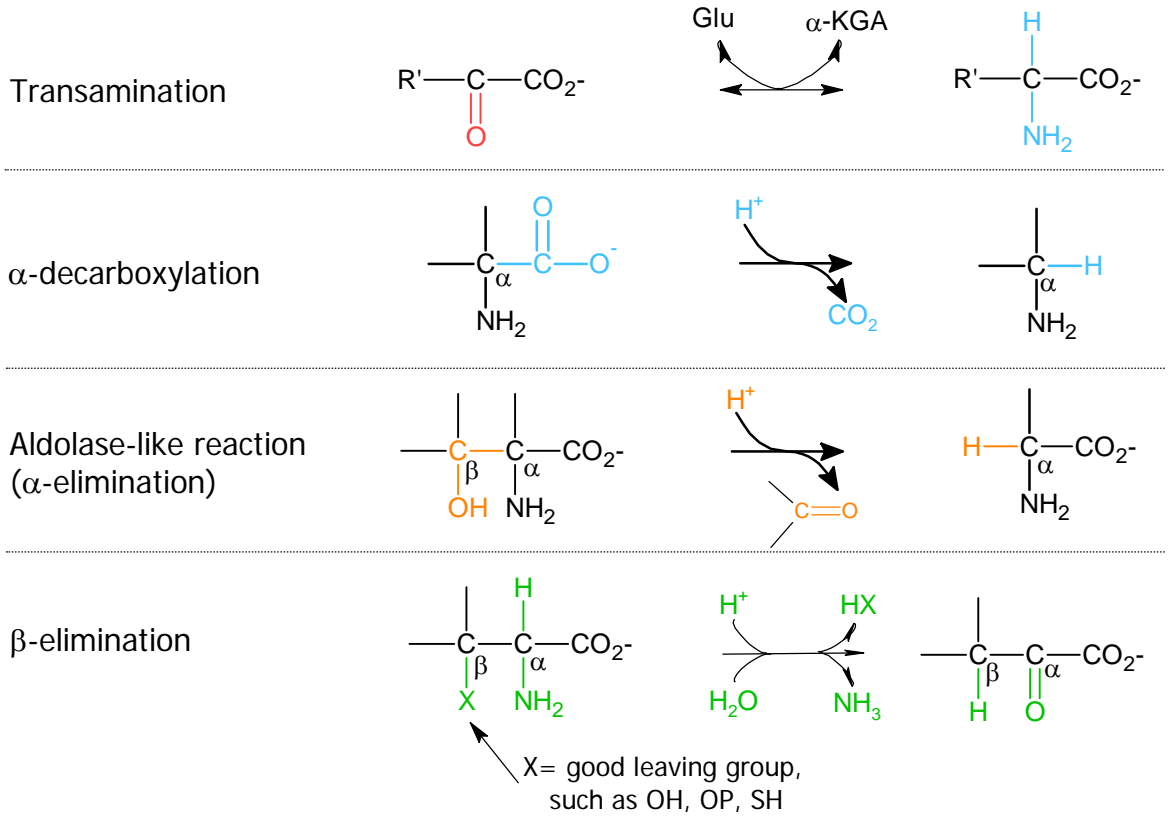


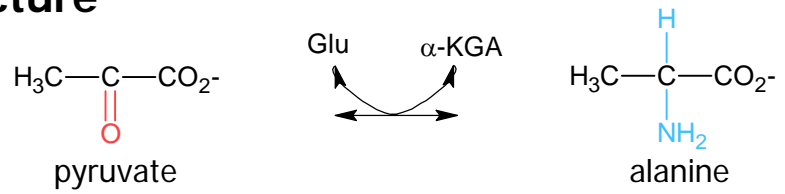
Pyridoxal-P (PLP)

Generalized Reactions

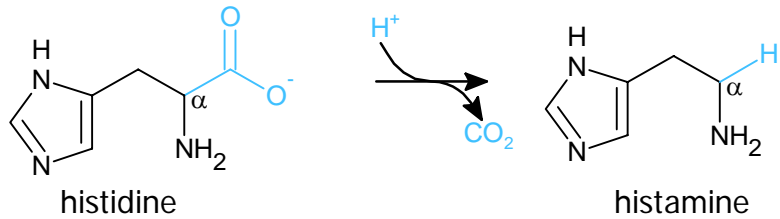


Examples presented in lecture

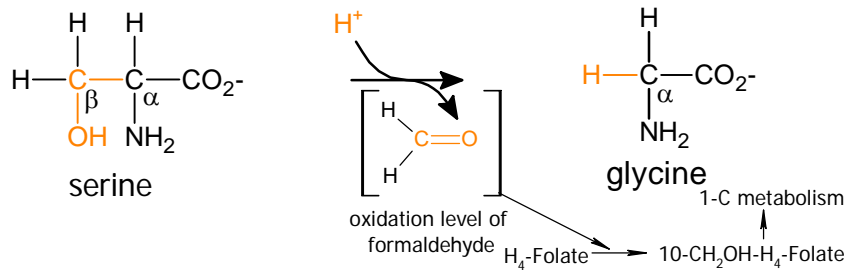
Transamination



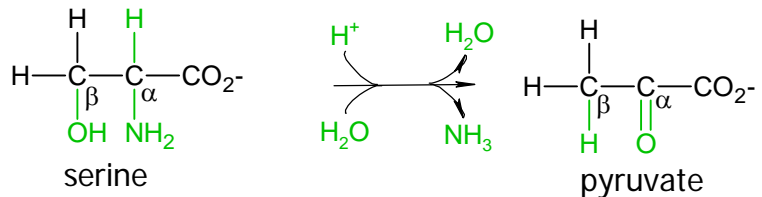
α -decarboxylation histidine decarboxylase



Aldolase-like rxn (α -elimination) serine hydroxymethylase

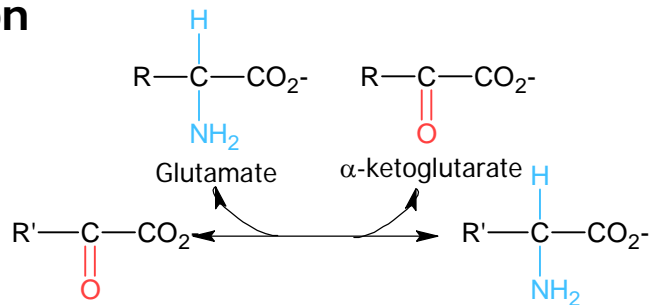


β -elimination serine dehydrase

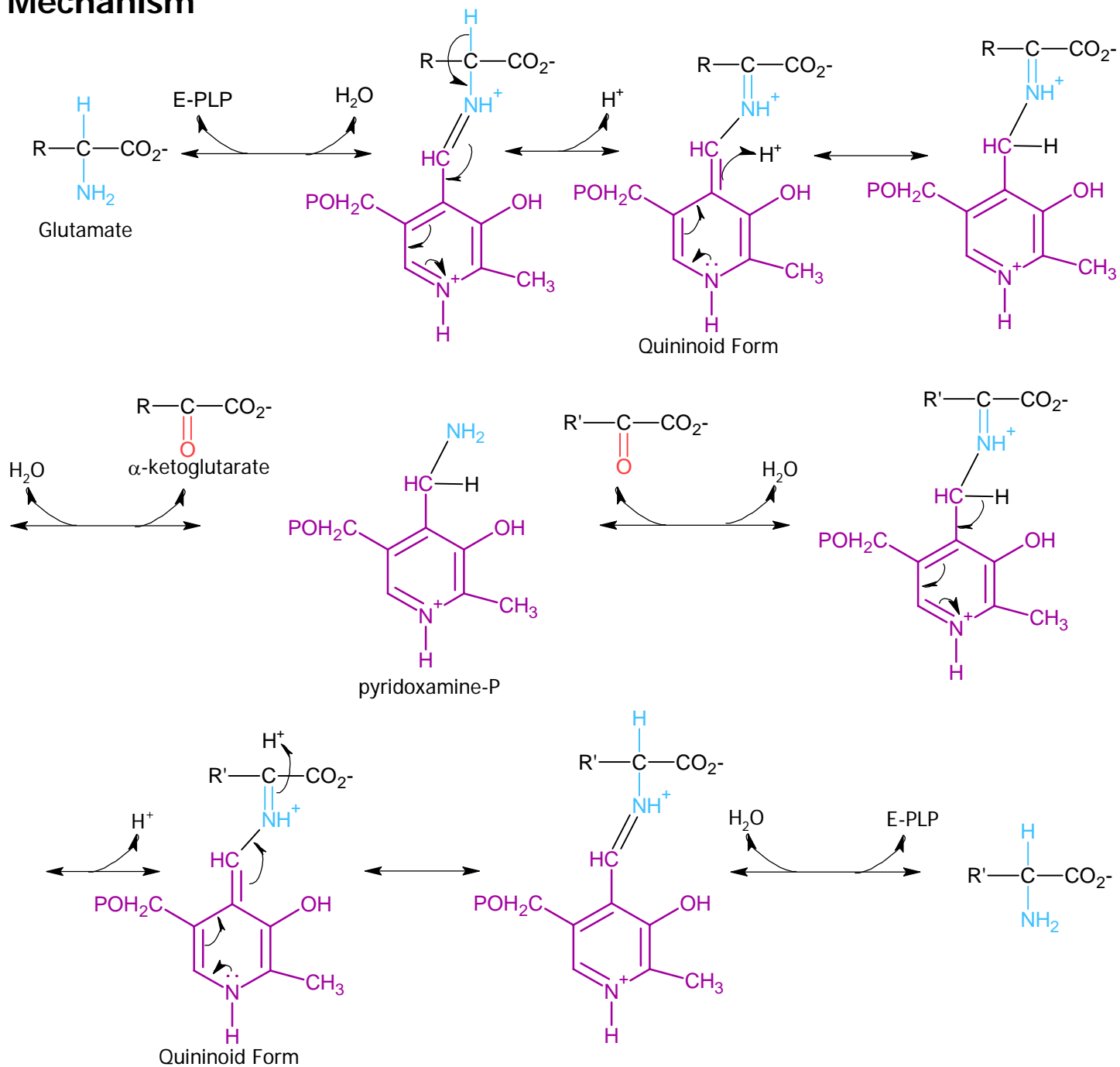


Pyridoxal-P (PLP): Transamination

Summary of Reaction

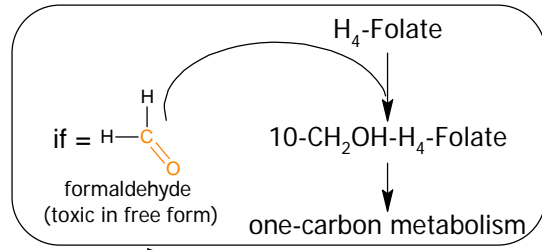
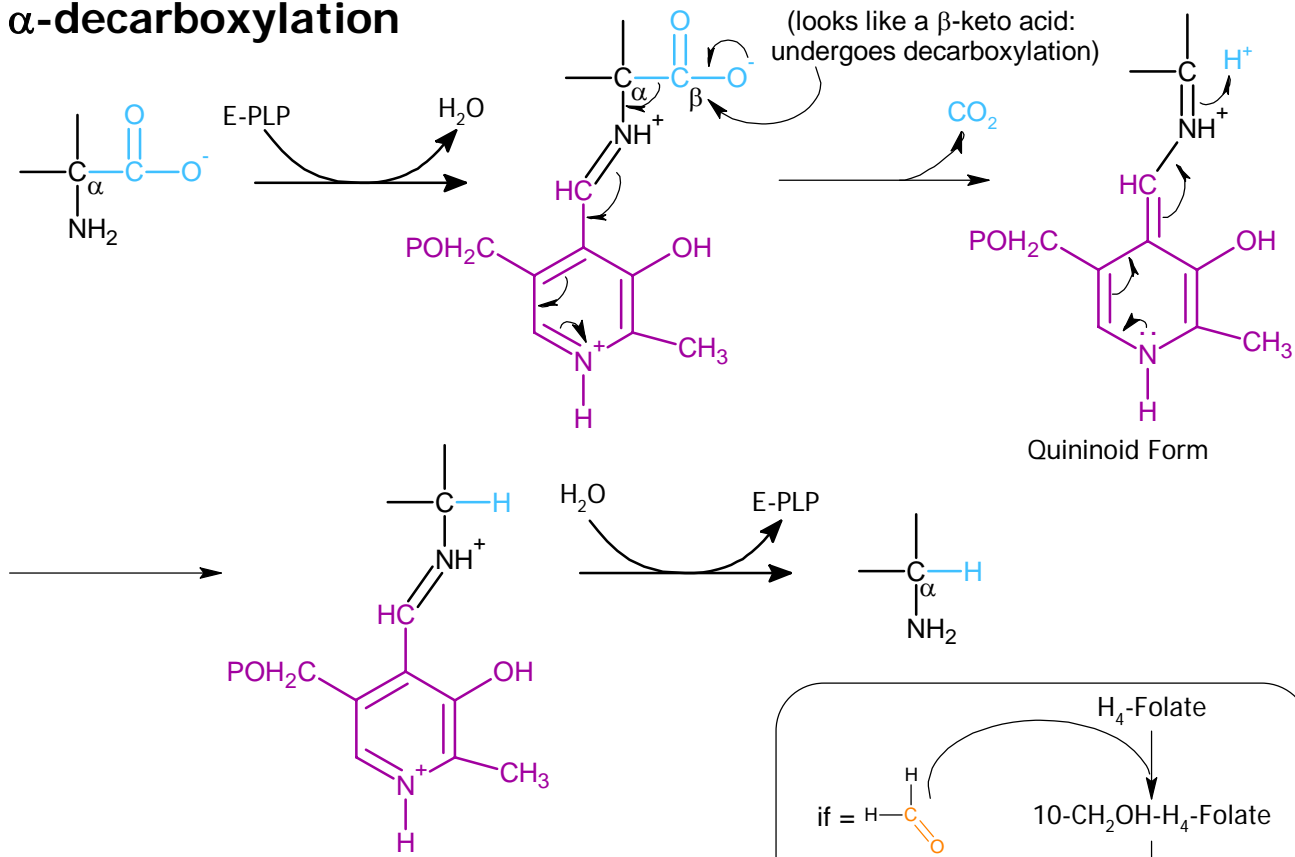


Mechanism

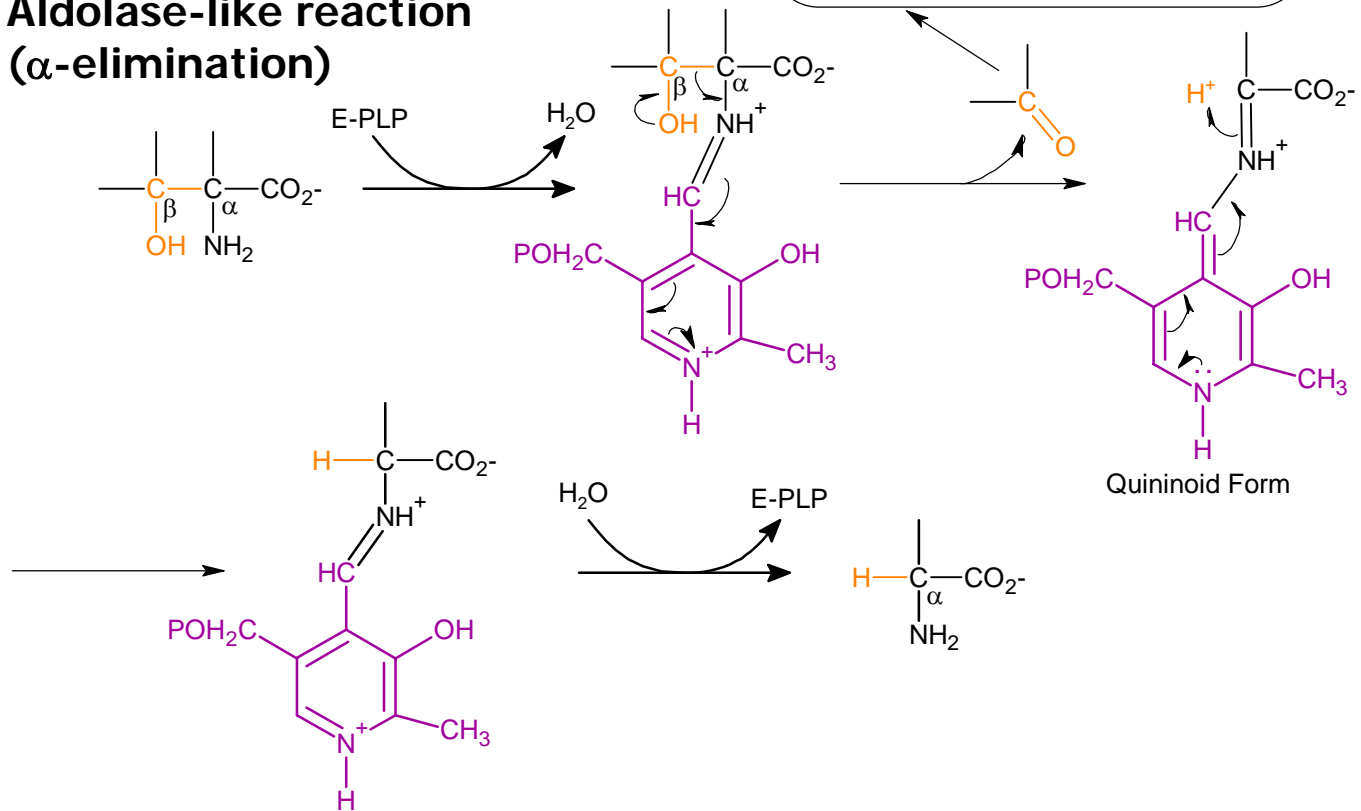


Pyridoxal-P (PLP): The α 's

α -decarboxylation



Aldolase-like reaction (α -elimination)



Pyridoxal-P (PLP): The β

β -elimination

