

Авторський пілотний проект

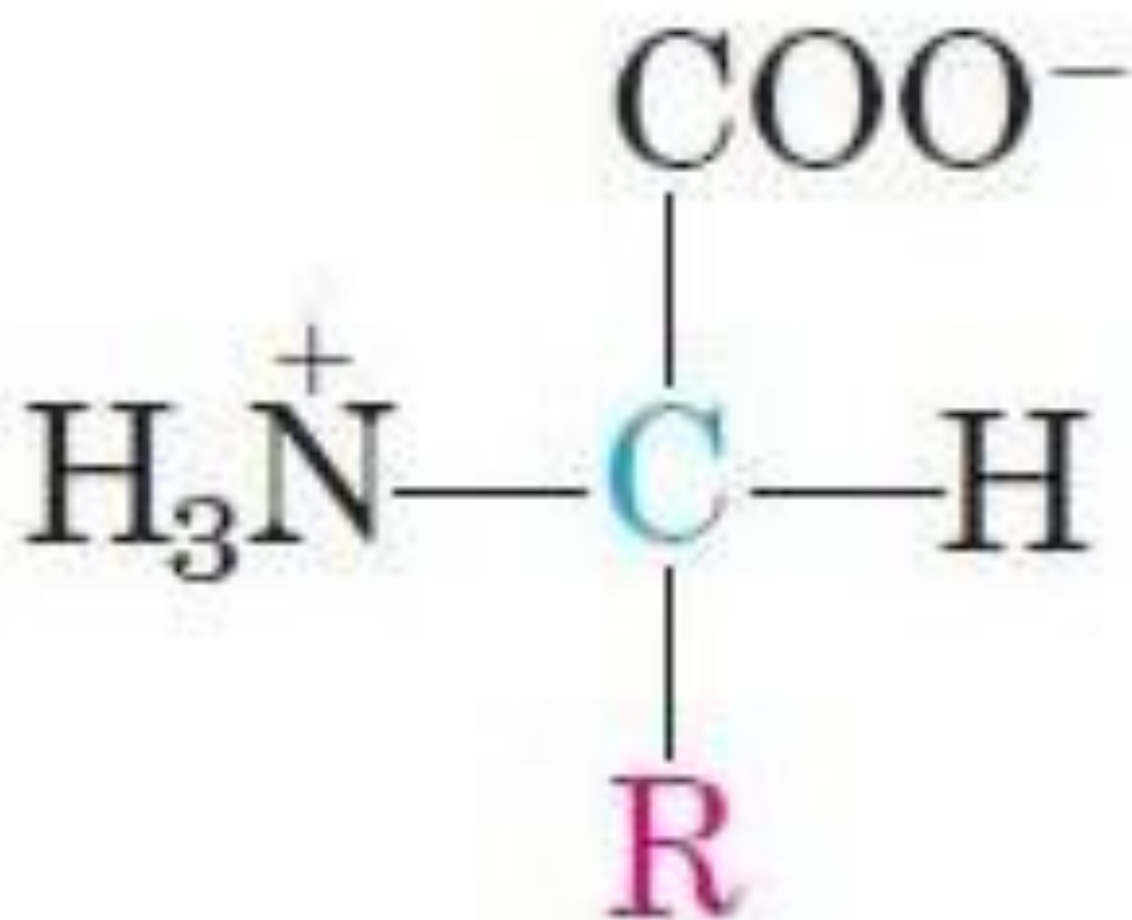


# Частина 1. Клітинна біохімія

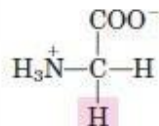
Лекція 2. Метаболізм ліпідів.

Метаболізм білків. Стероїди

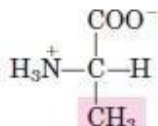
**Б І Л К И**



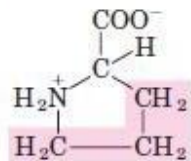
**Nonpolar, aliphatic R groups**



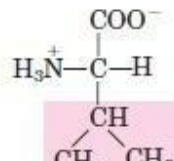
Glycine



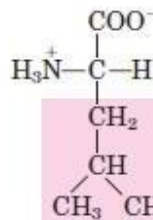
Alanine



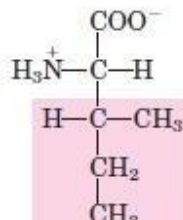
Proline



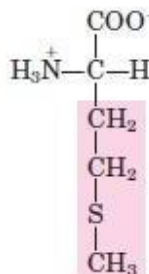
Valine



Leucine

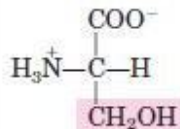


Isoleucine

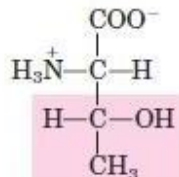


Methionine

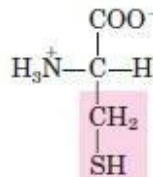
**Polar, uncharged R groups**



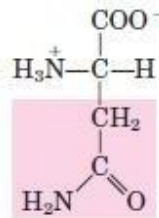
Serine



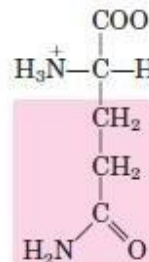
Threonine



Cysteine

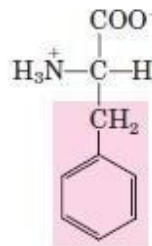


Asparagine

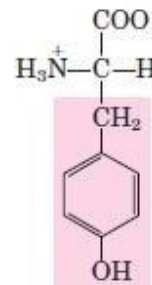


Glutamine

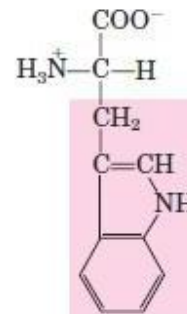
**Aromatic R groups**



Phenylalanine

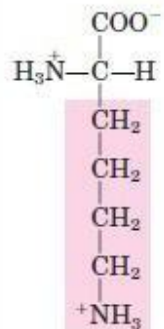


Tyrosine

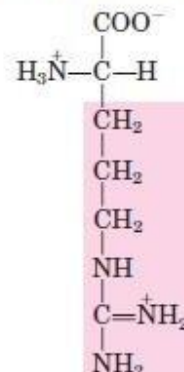


Tryptophan

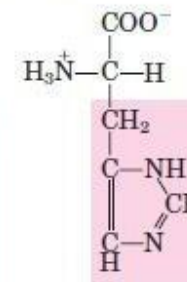
**Positively charged R groups**



Lysine

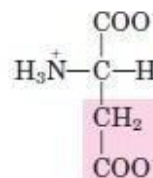


Arginine

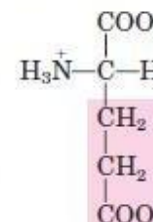


Histidine

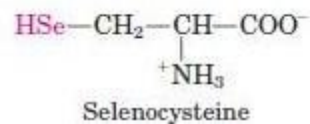
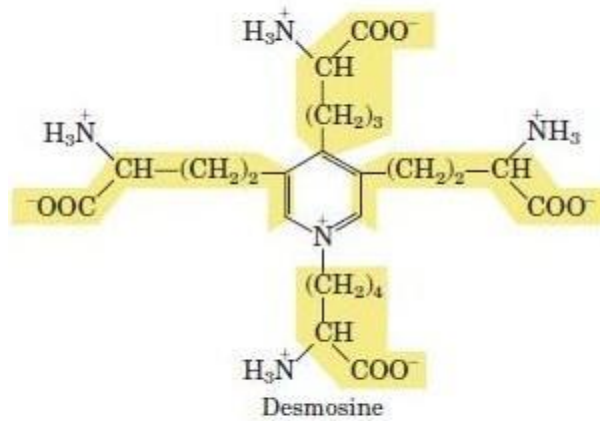
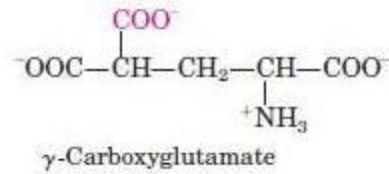
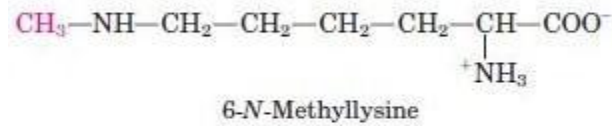
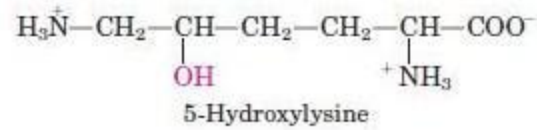
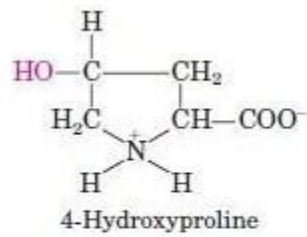
**Negatively charged R groups**

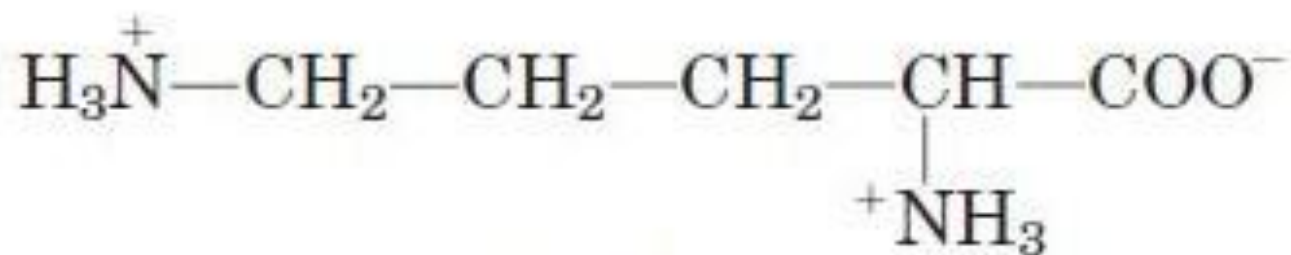


Aspartate

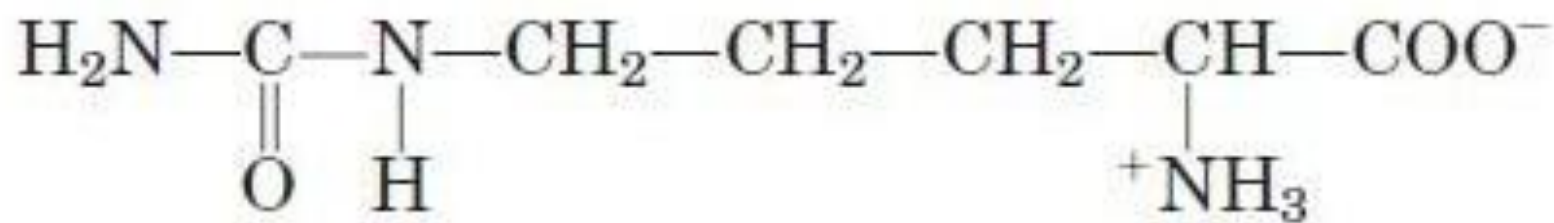


Glutamate

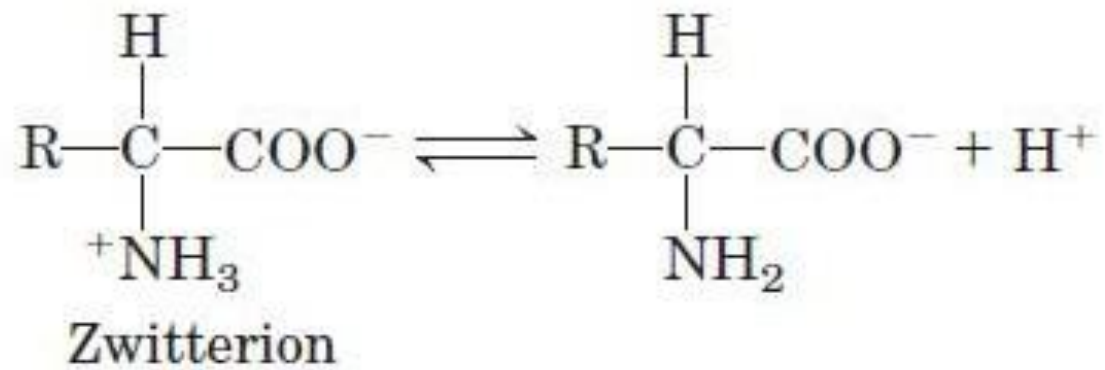




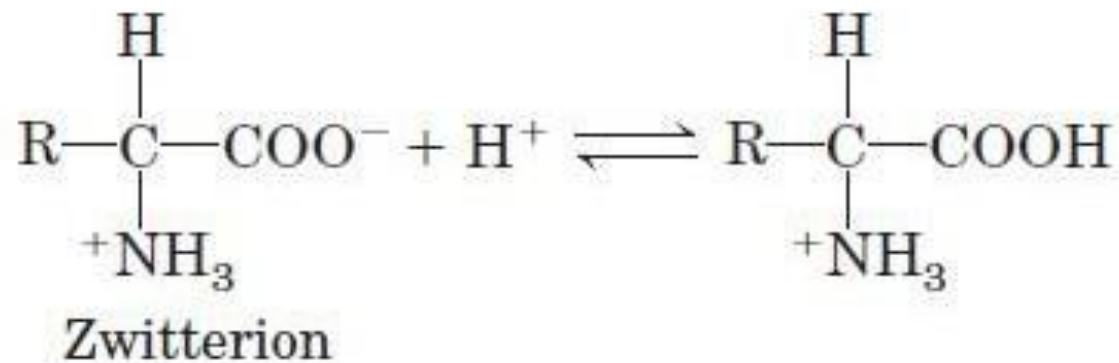
Ornithine

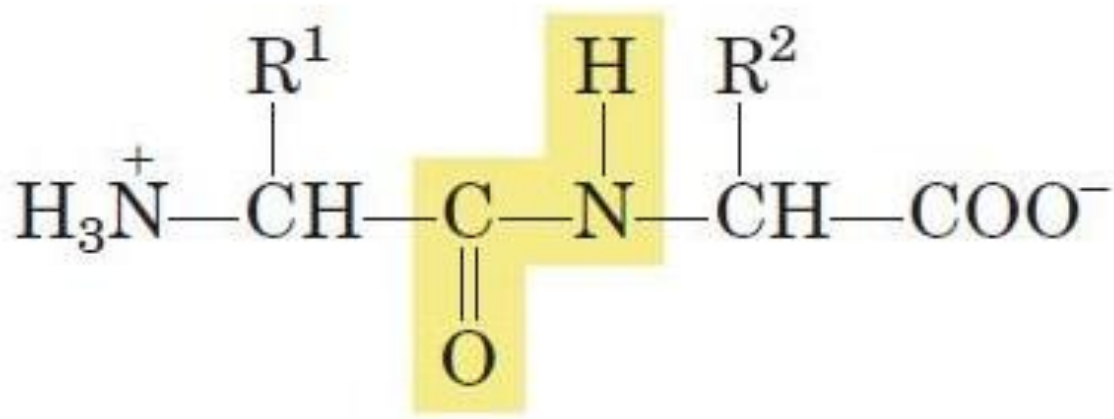
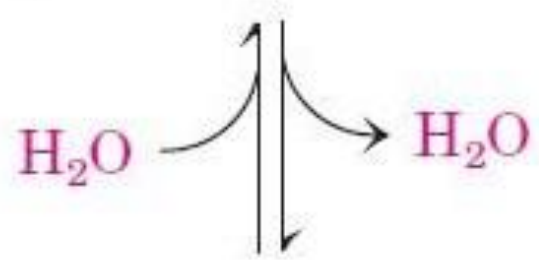
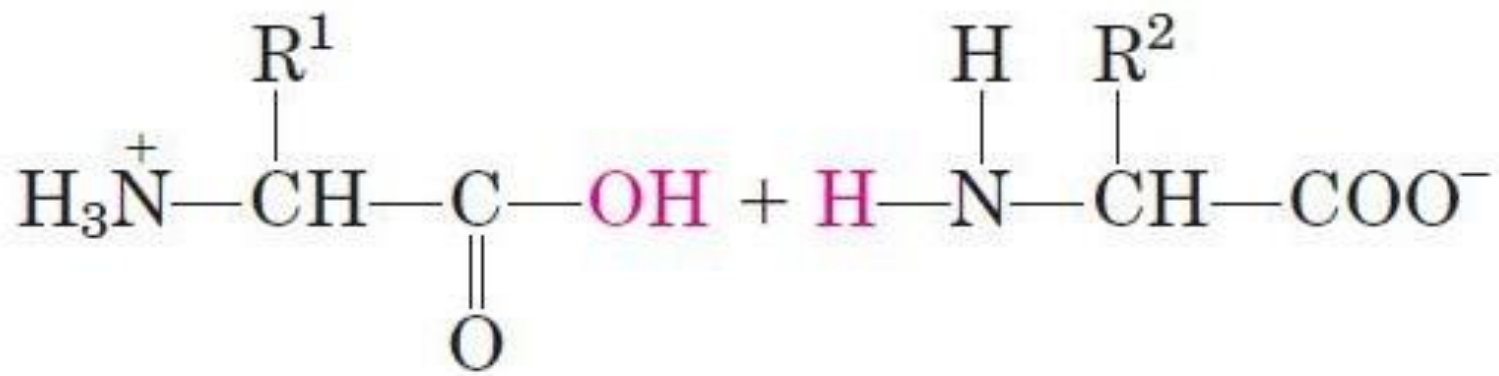


Citrulline

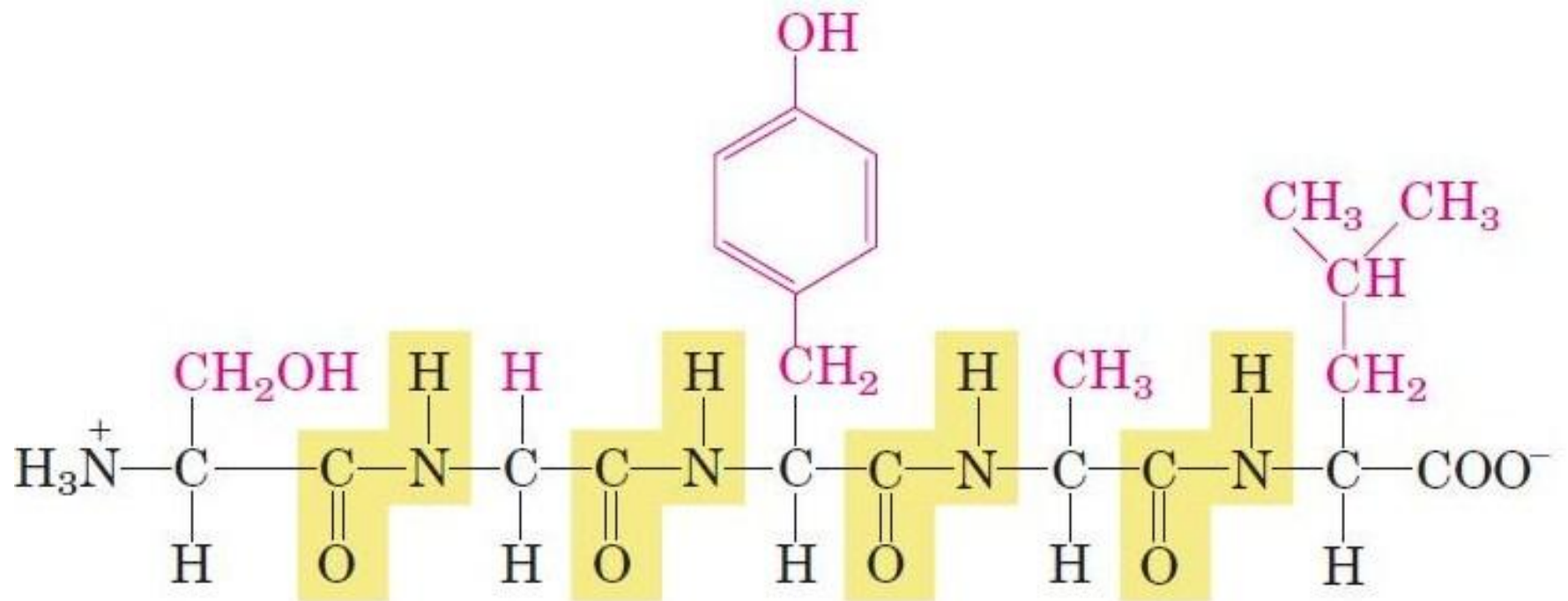


or a base (proton acceptor):



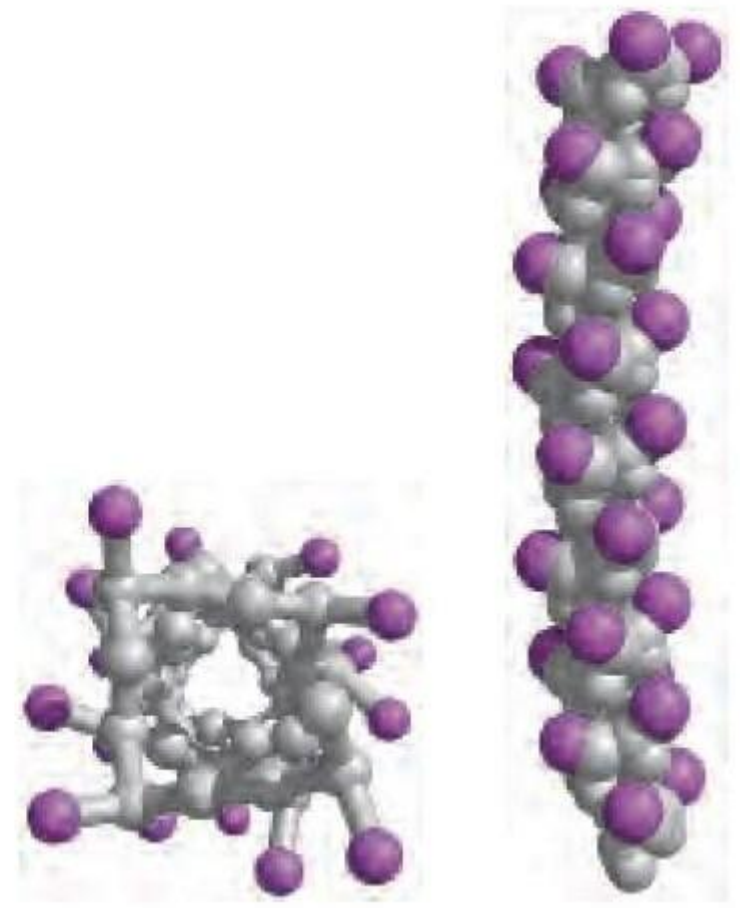
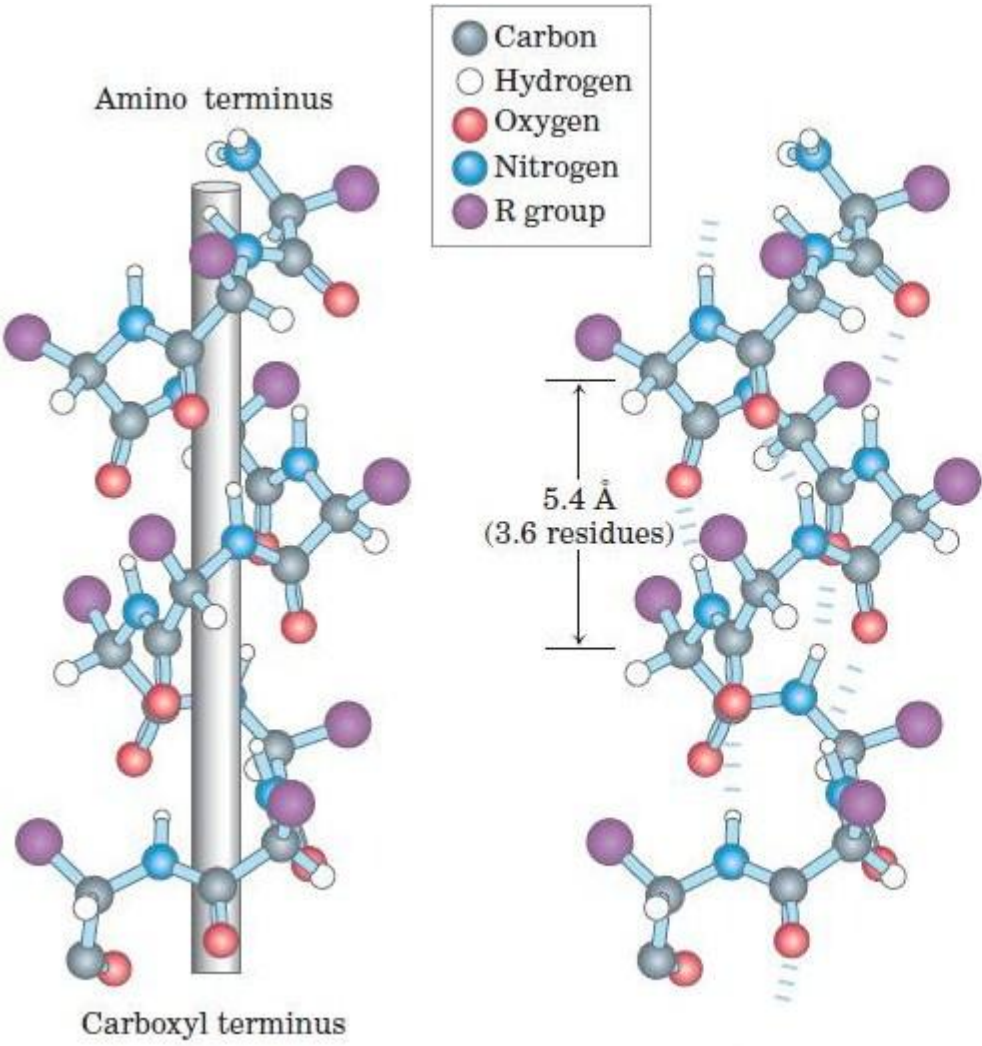


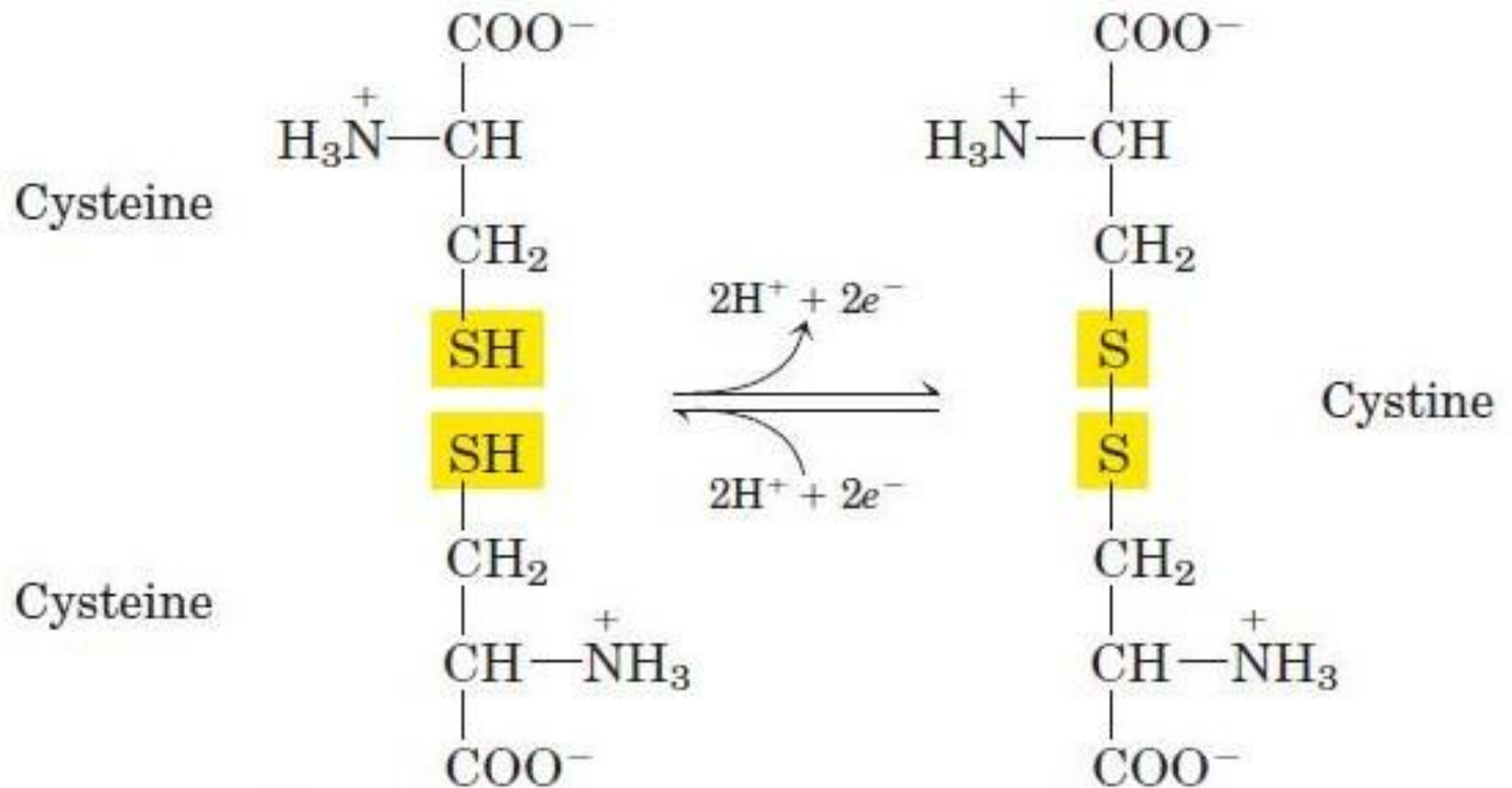




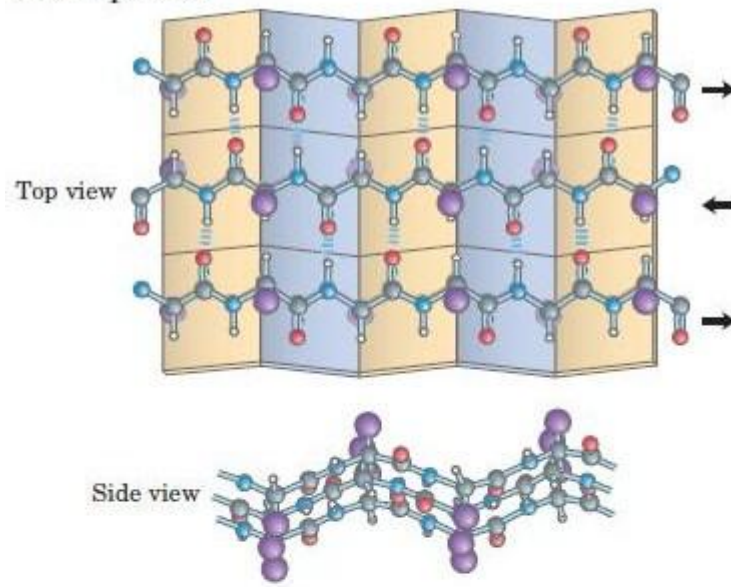
Amino-terminal end

Carboxyl-terminal end



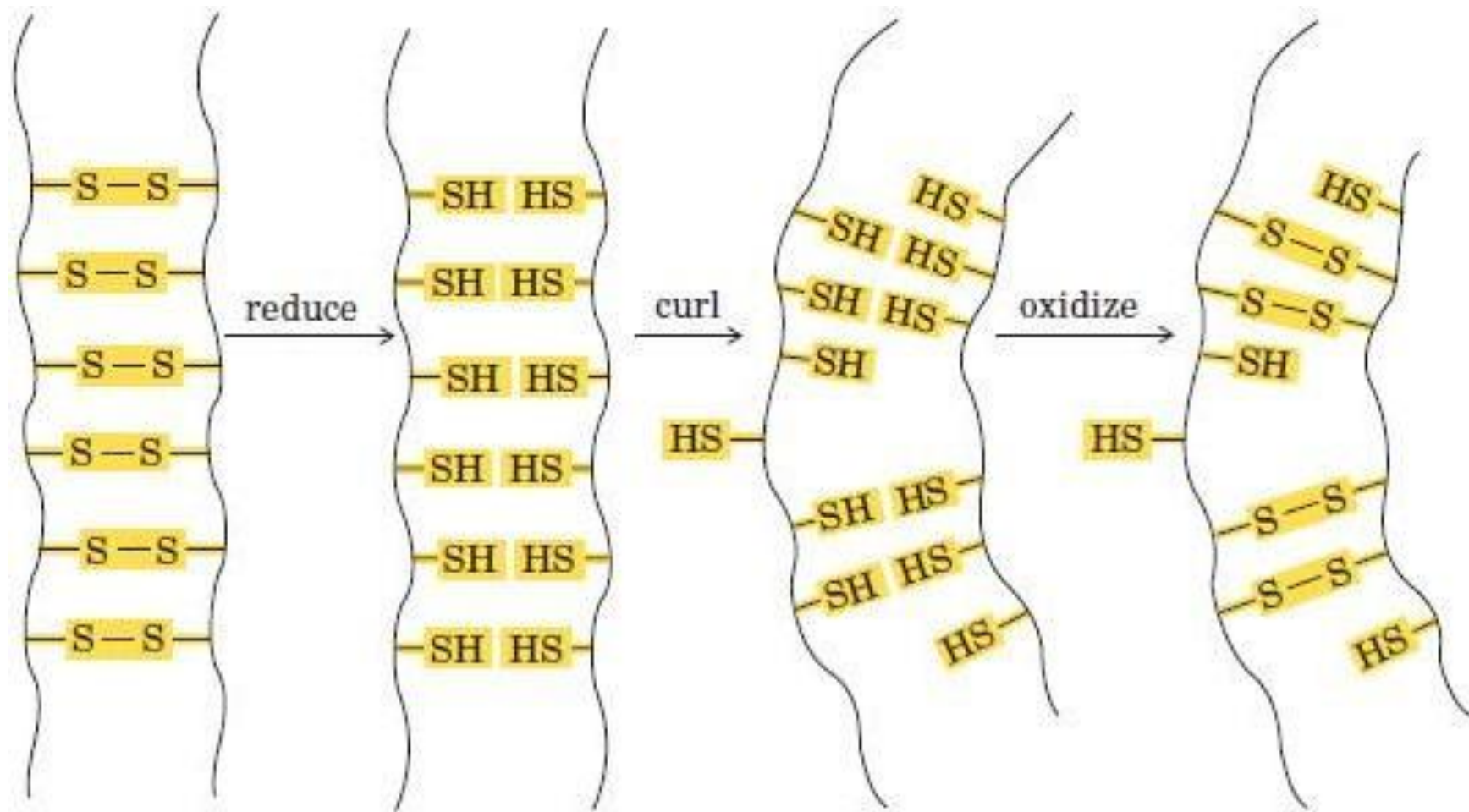


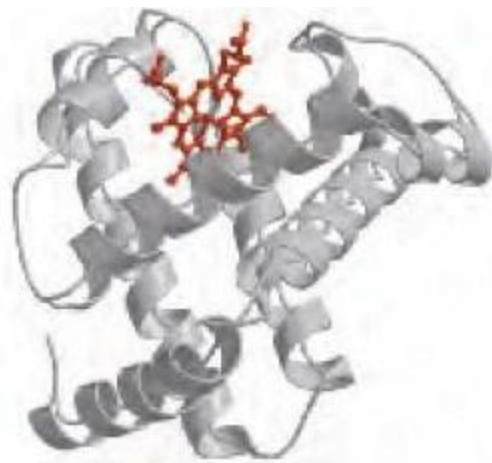
**(a) Antiparallel**



**(b) Parallel**



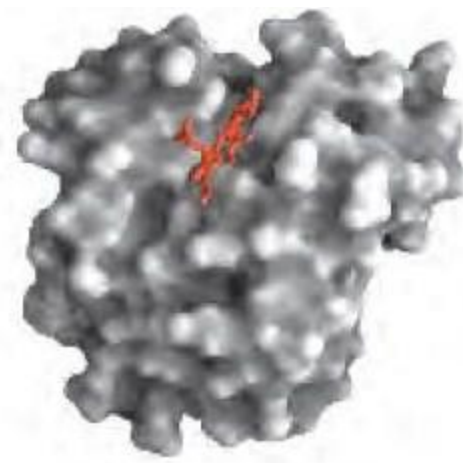




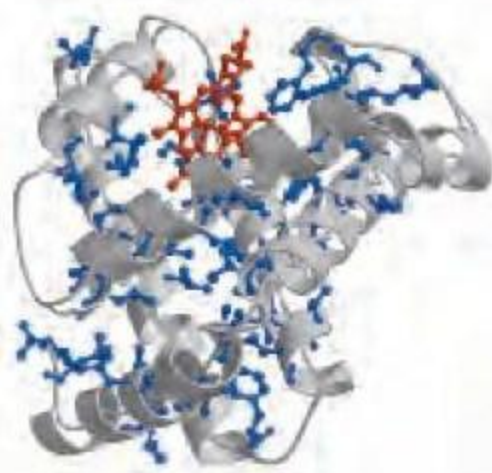
(a)



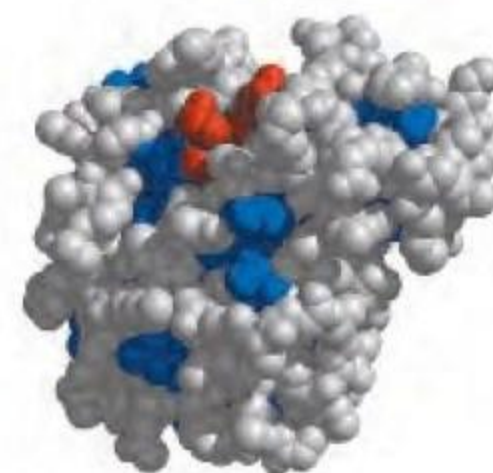
(b)



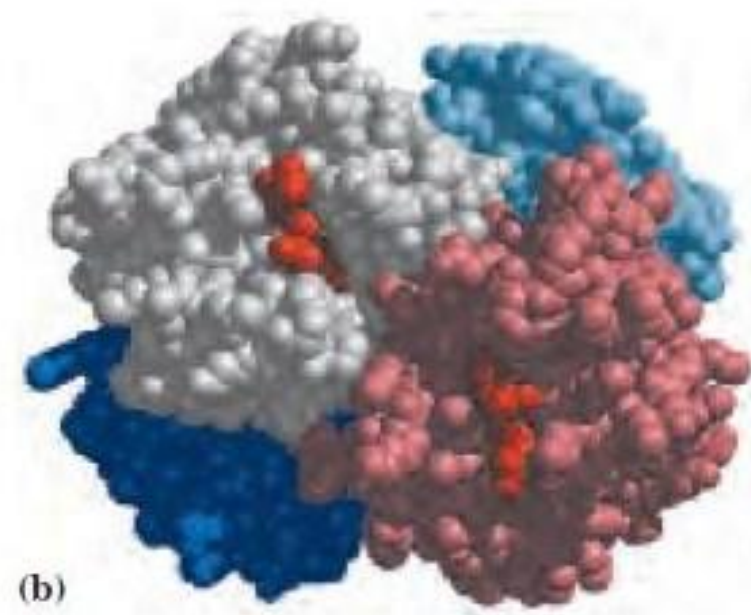
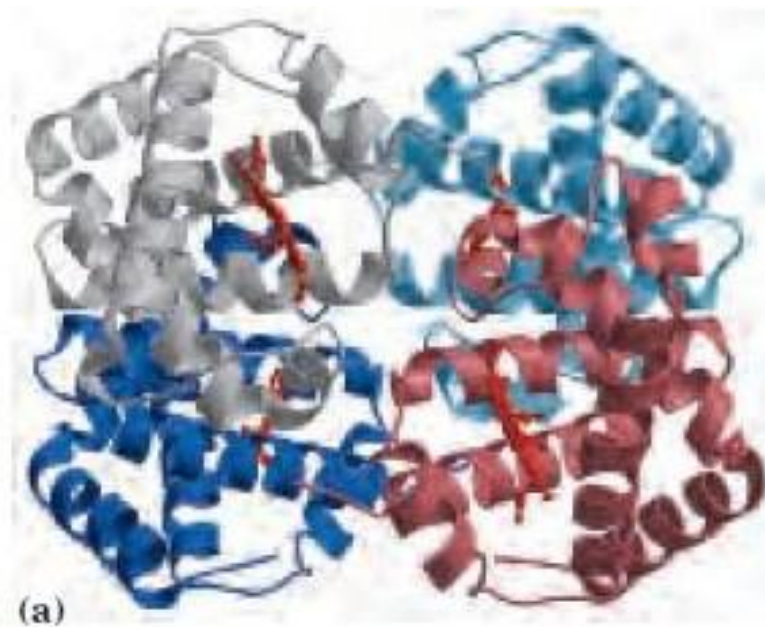
(c)



(d)

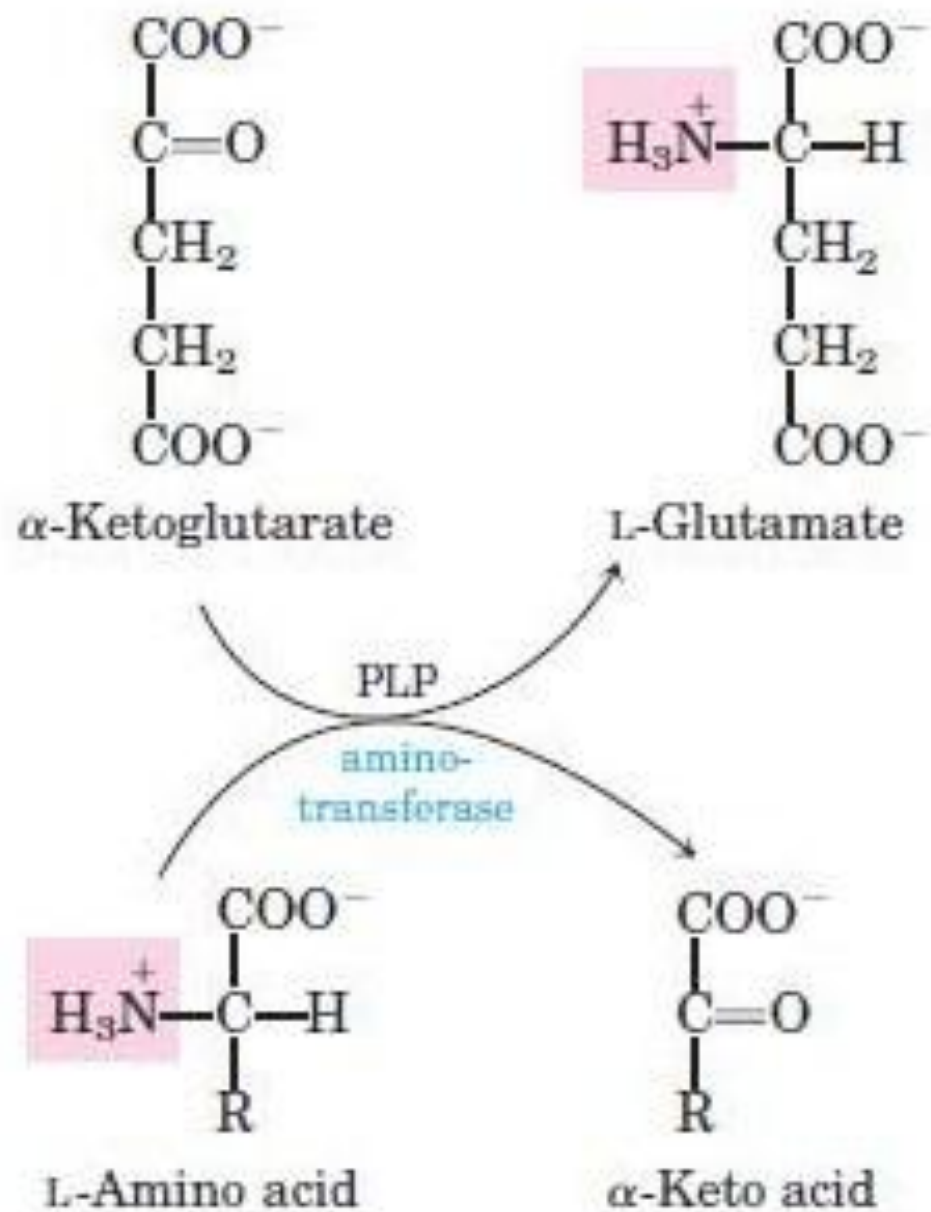


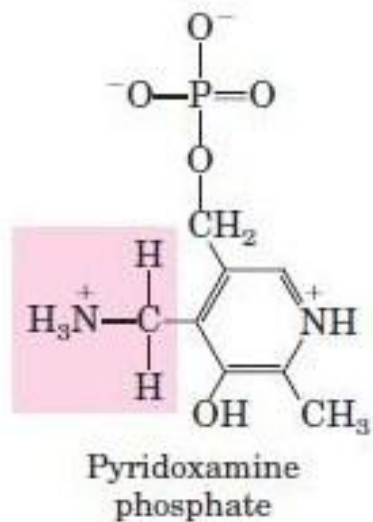
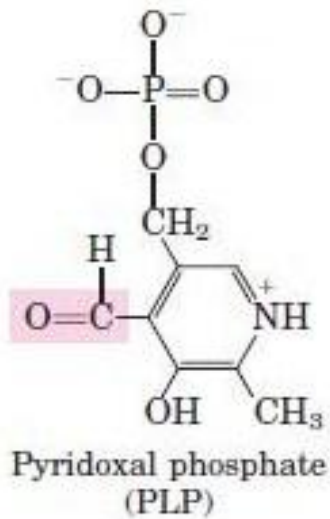
(e)



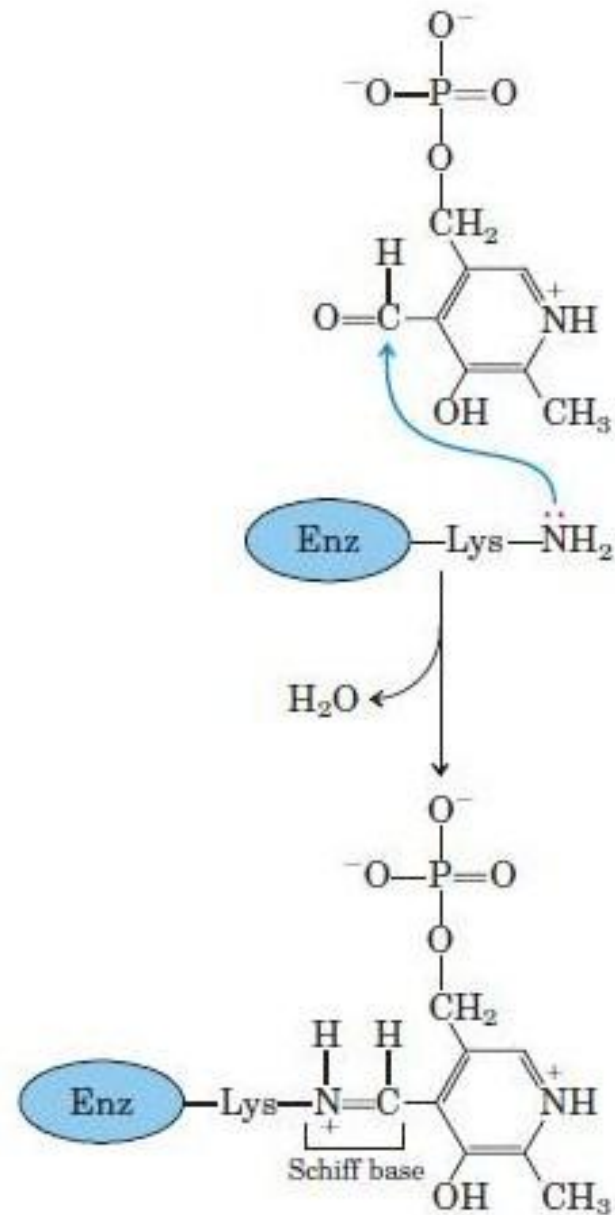


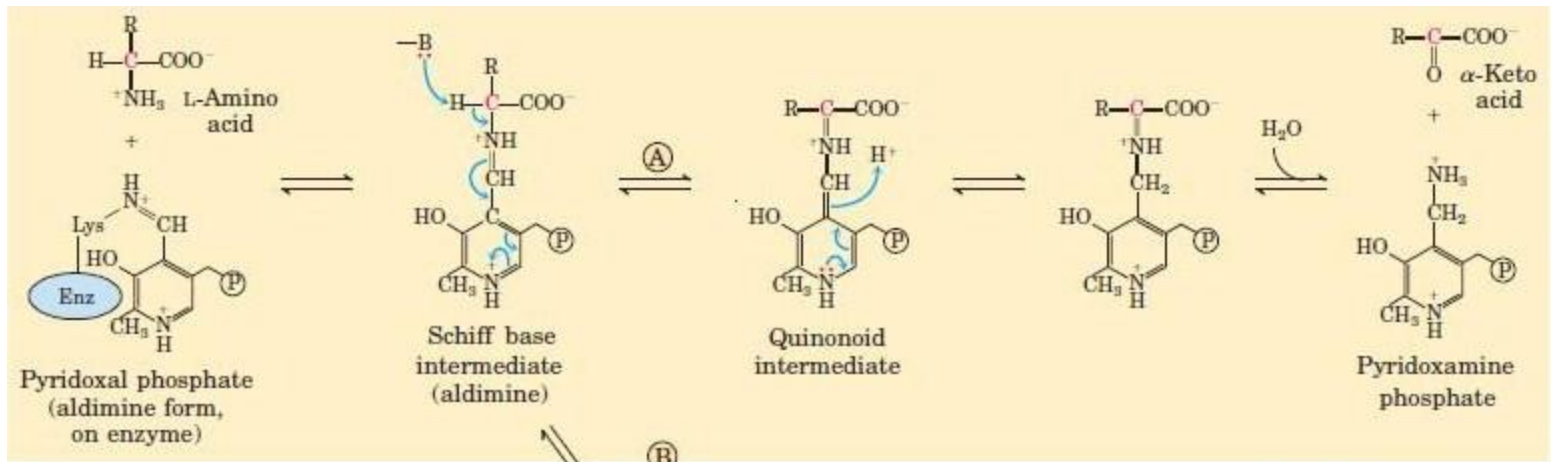




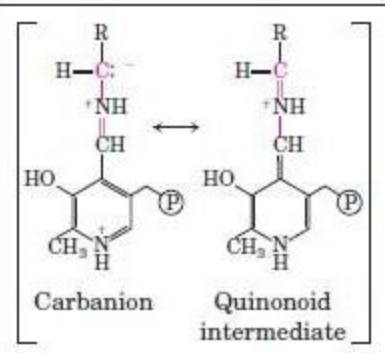
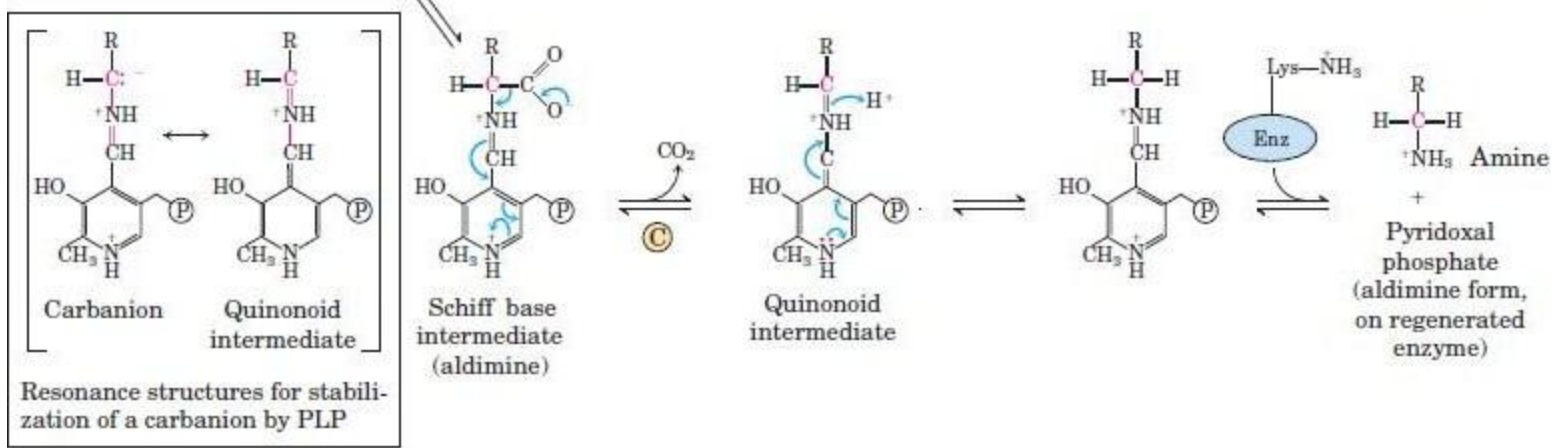
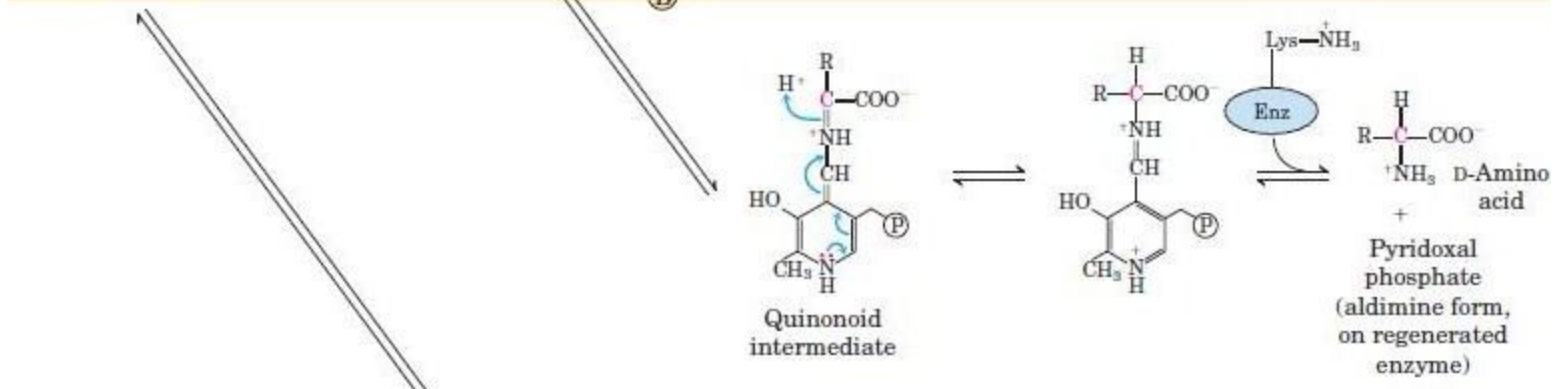


(a)

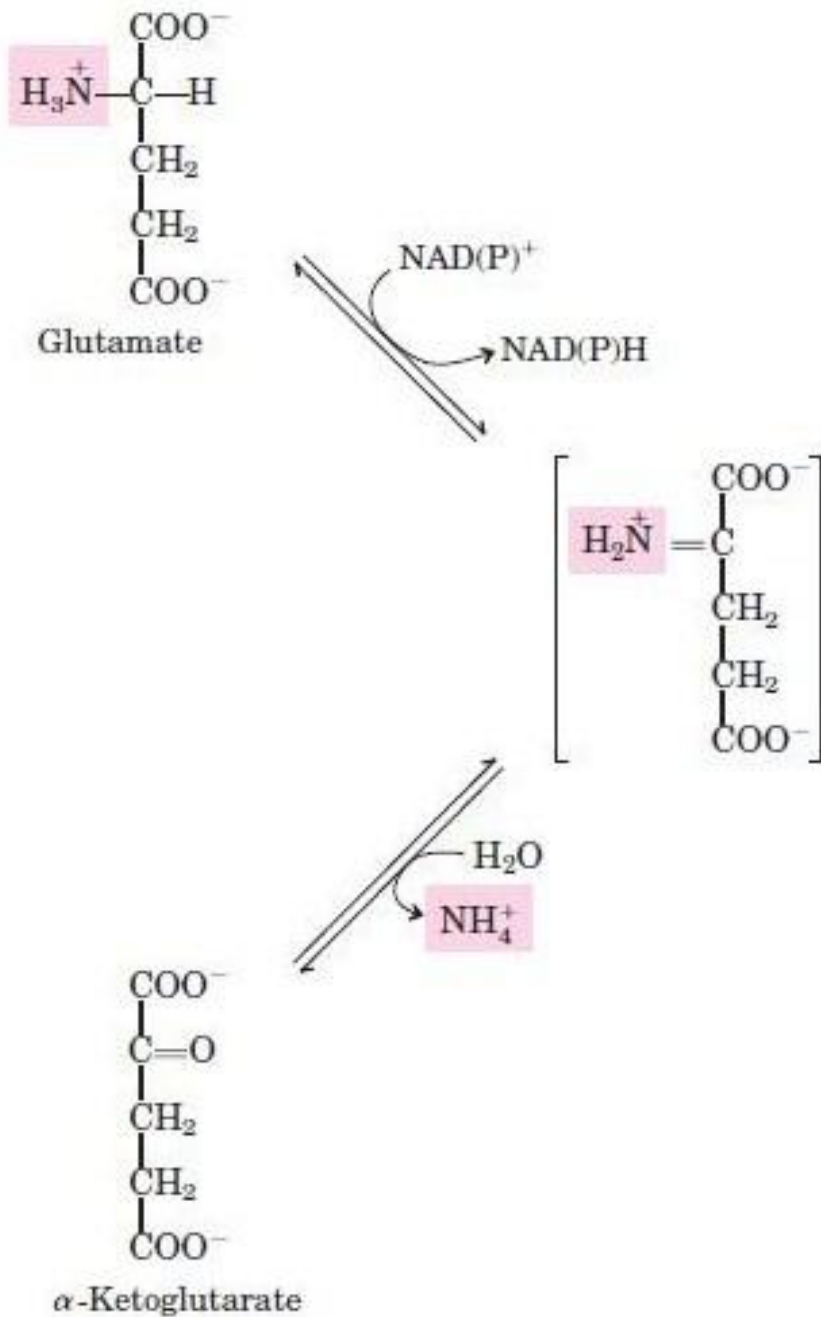


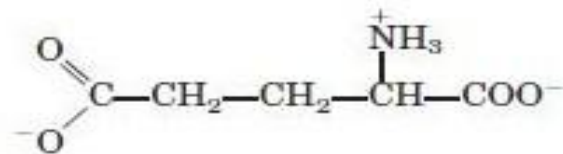
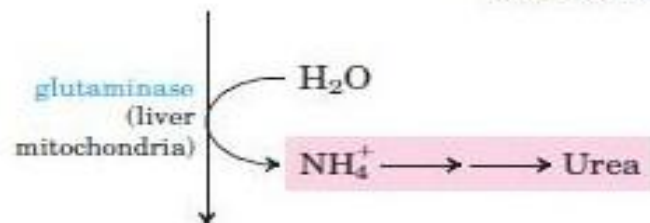
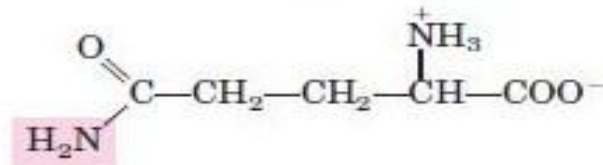
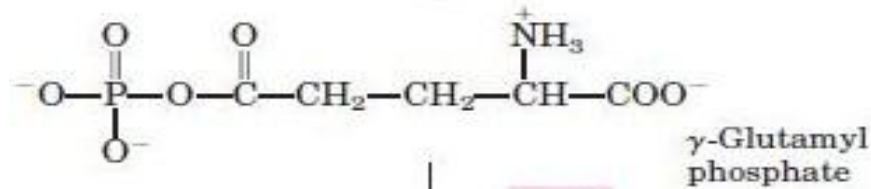
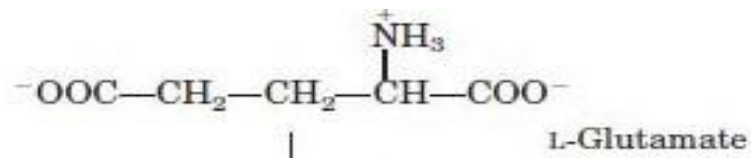


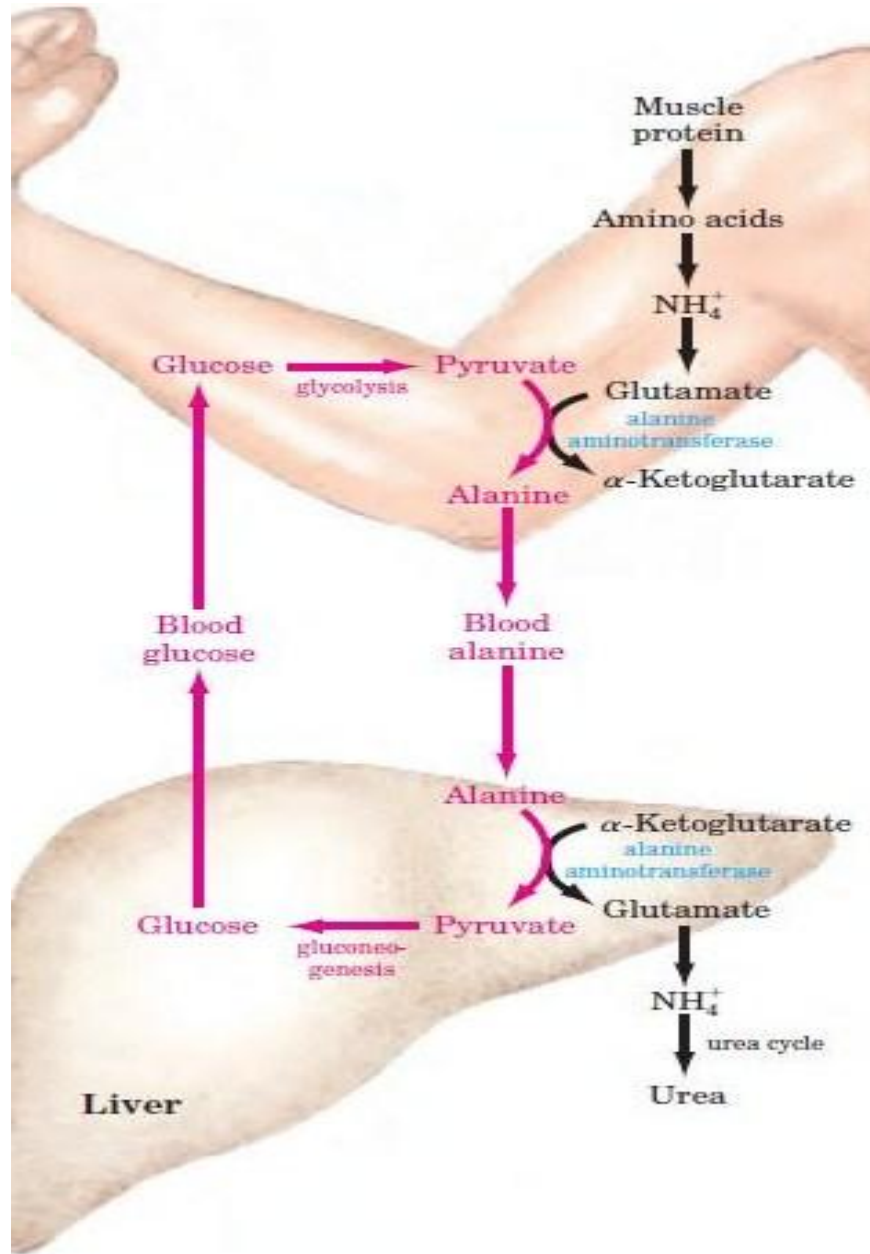
Ⓐ

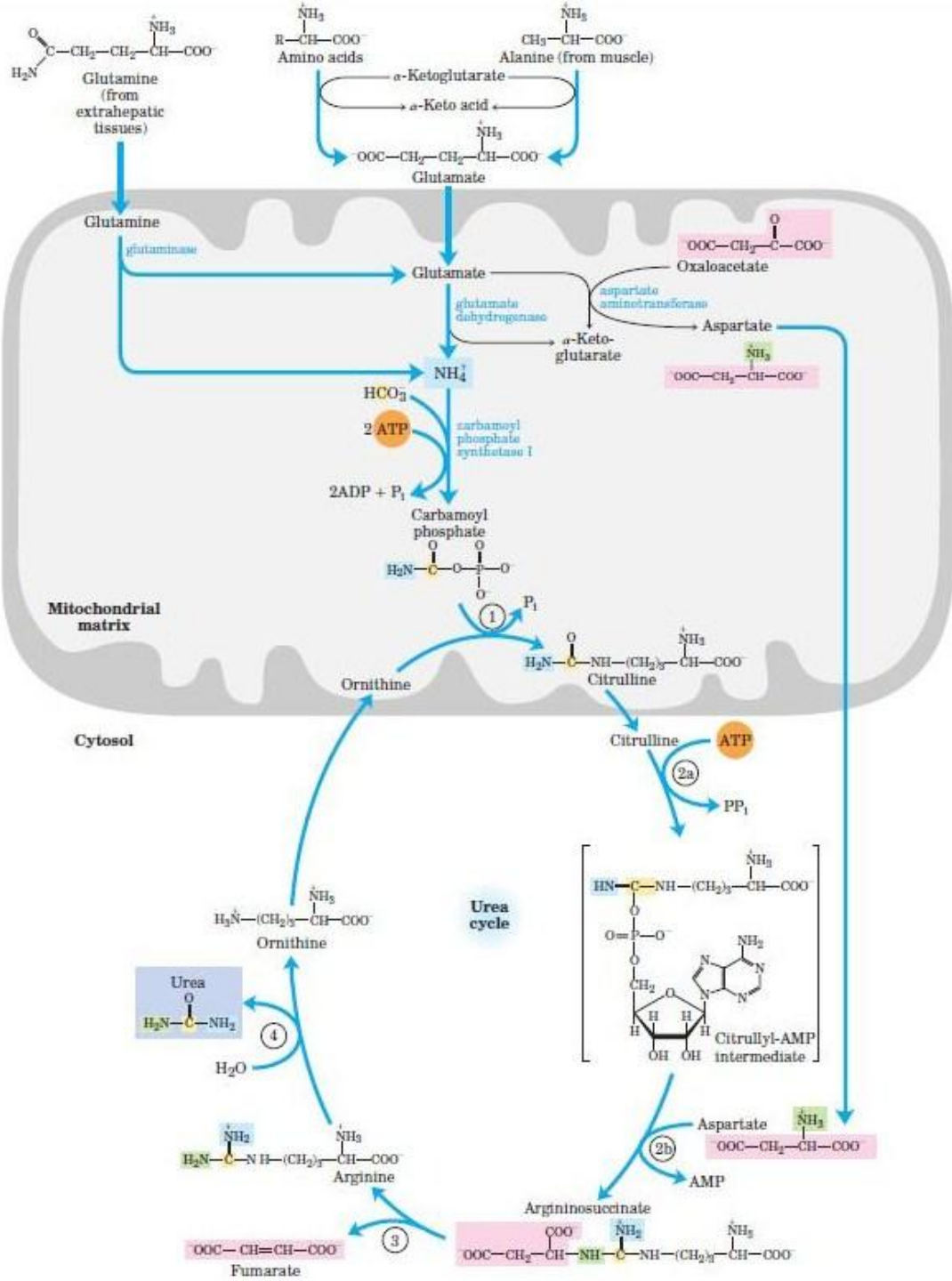


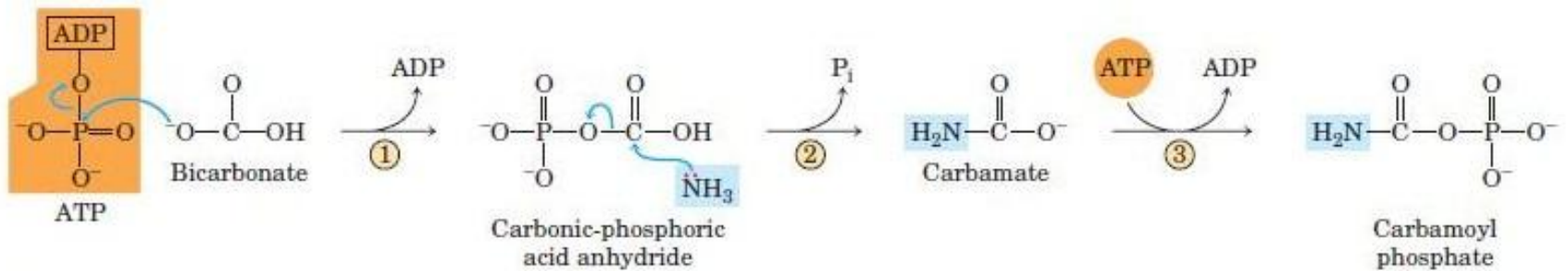
Resonance structures for stabilization of a carbanion by PLP



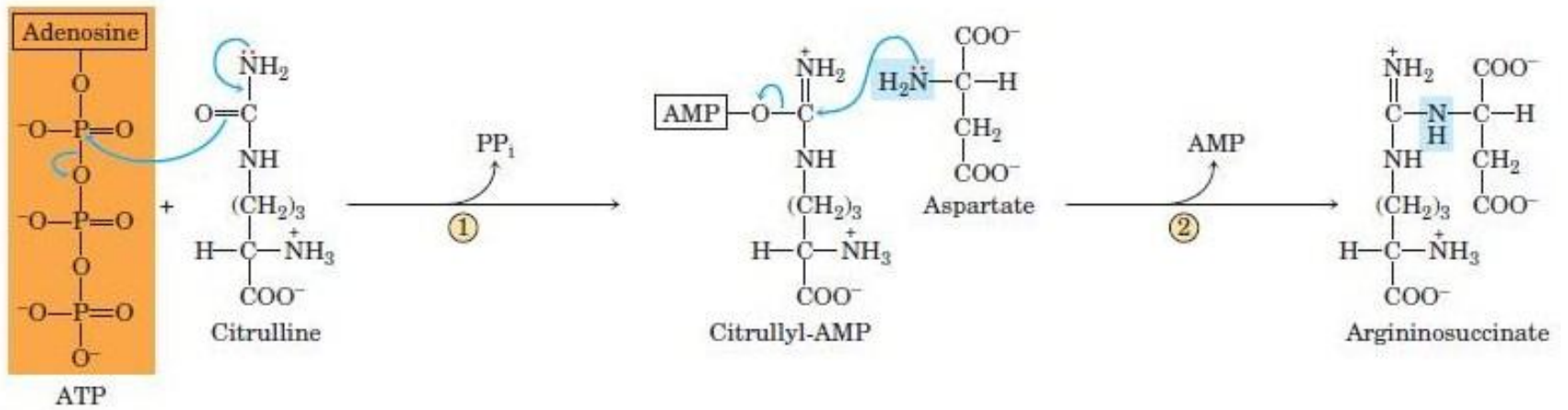






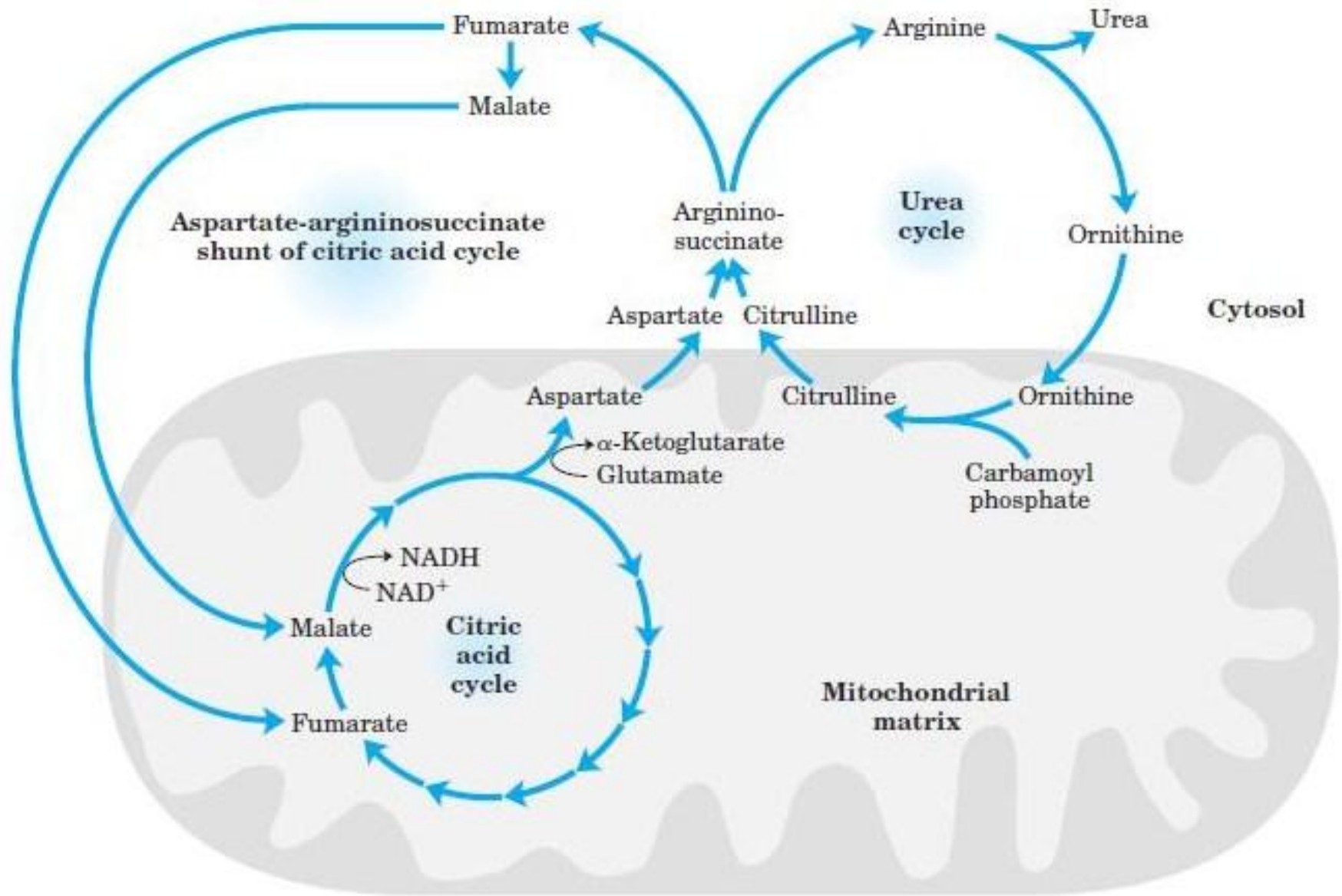


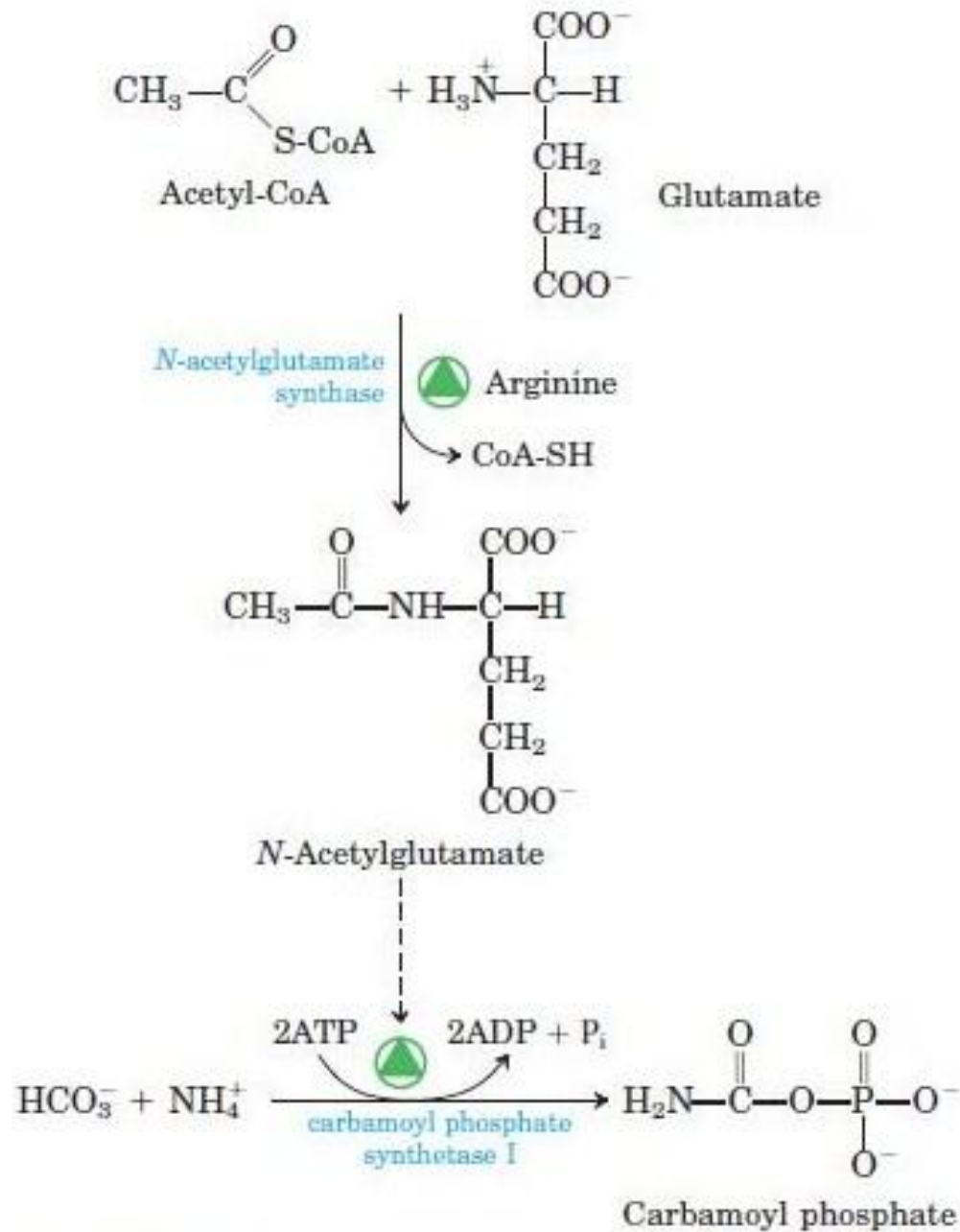
(a)

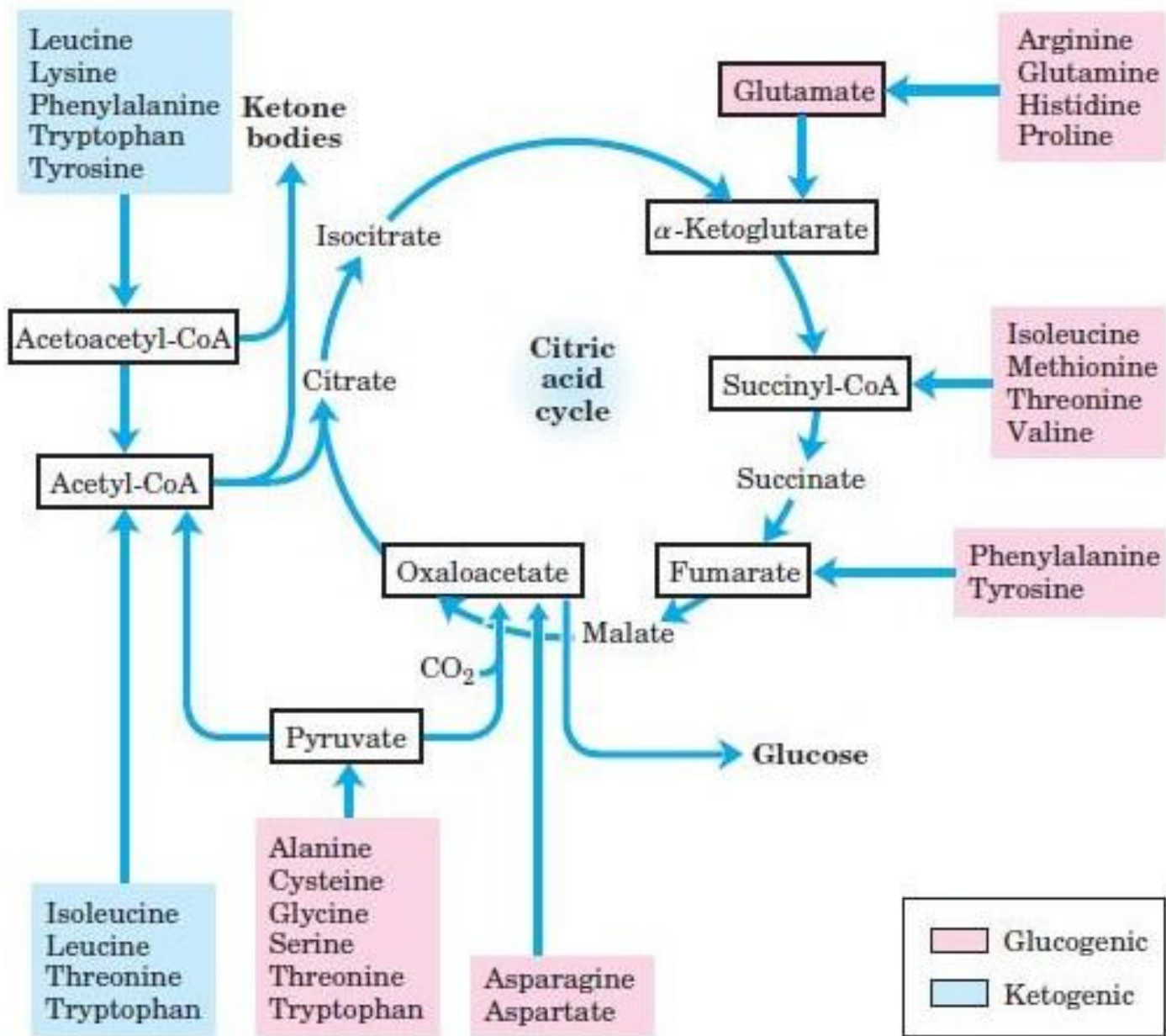


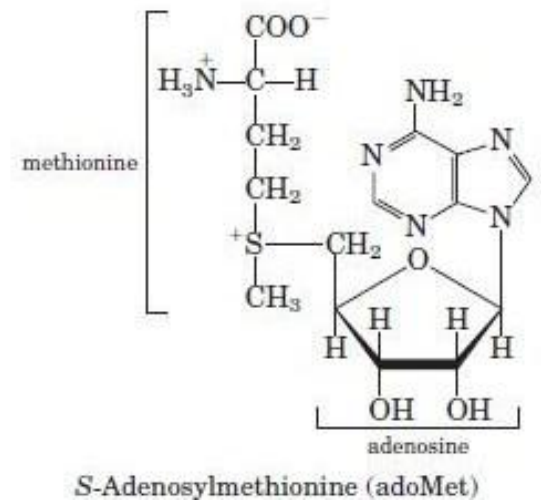
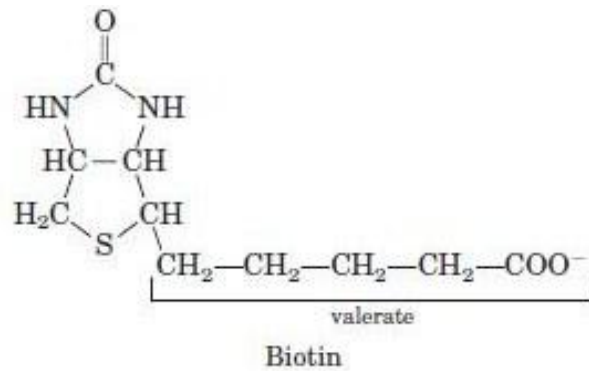
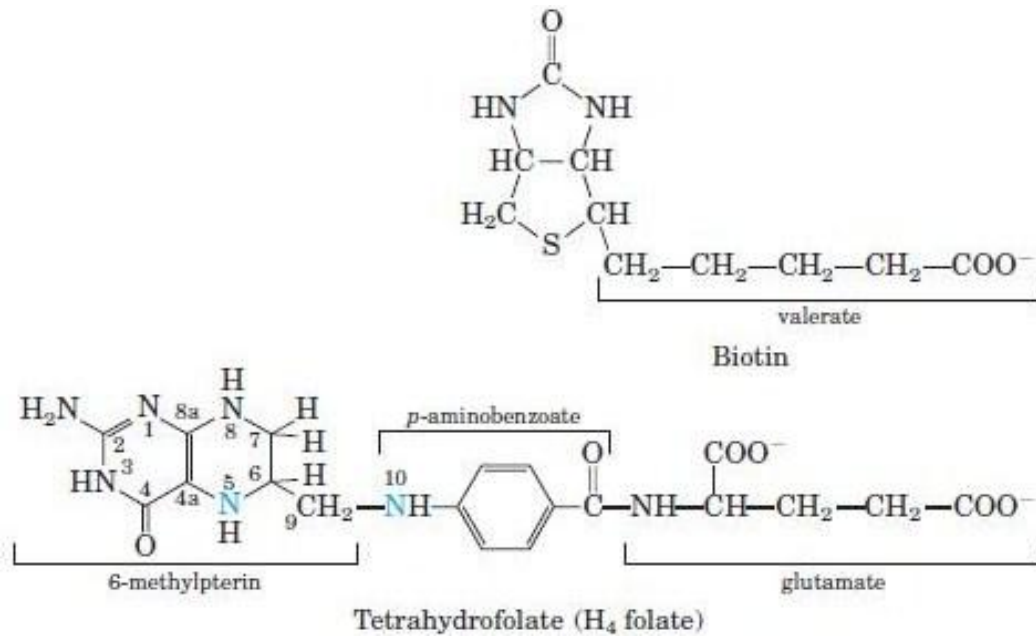
(b)





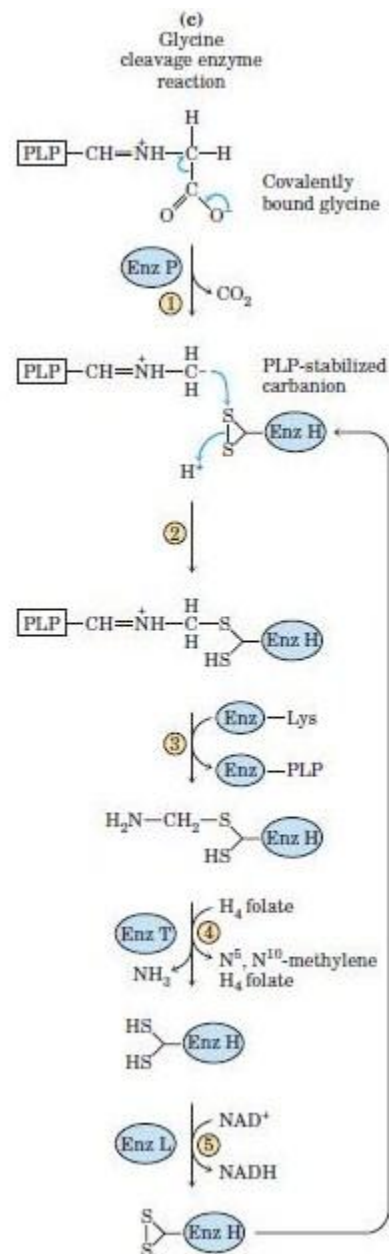
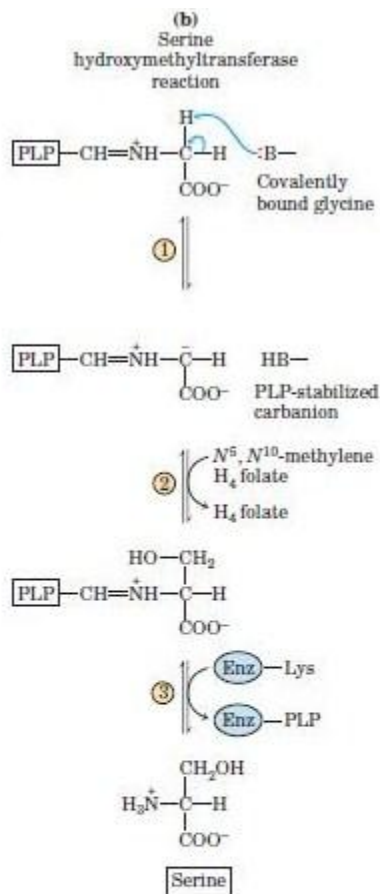
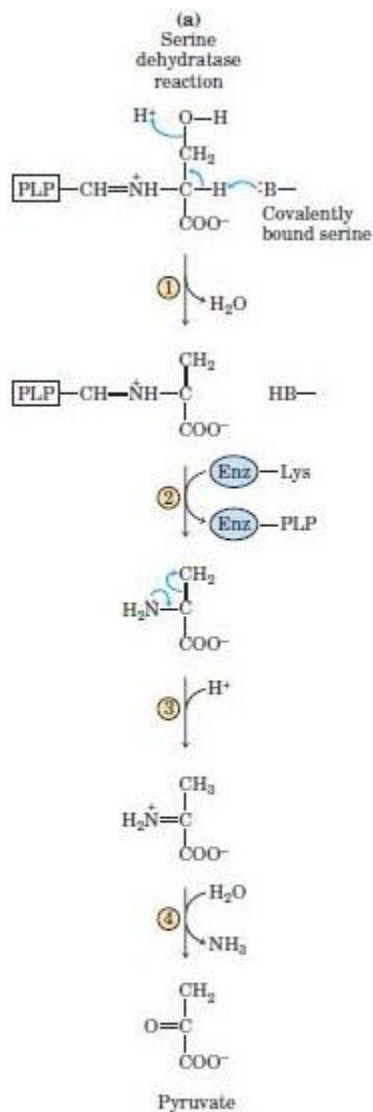


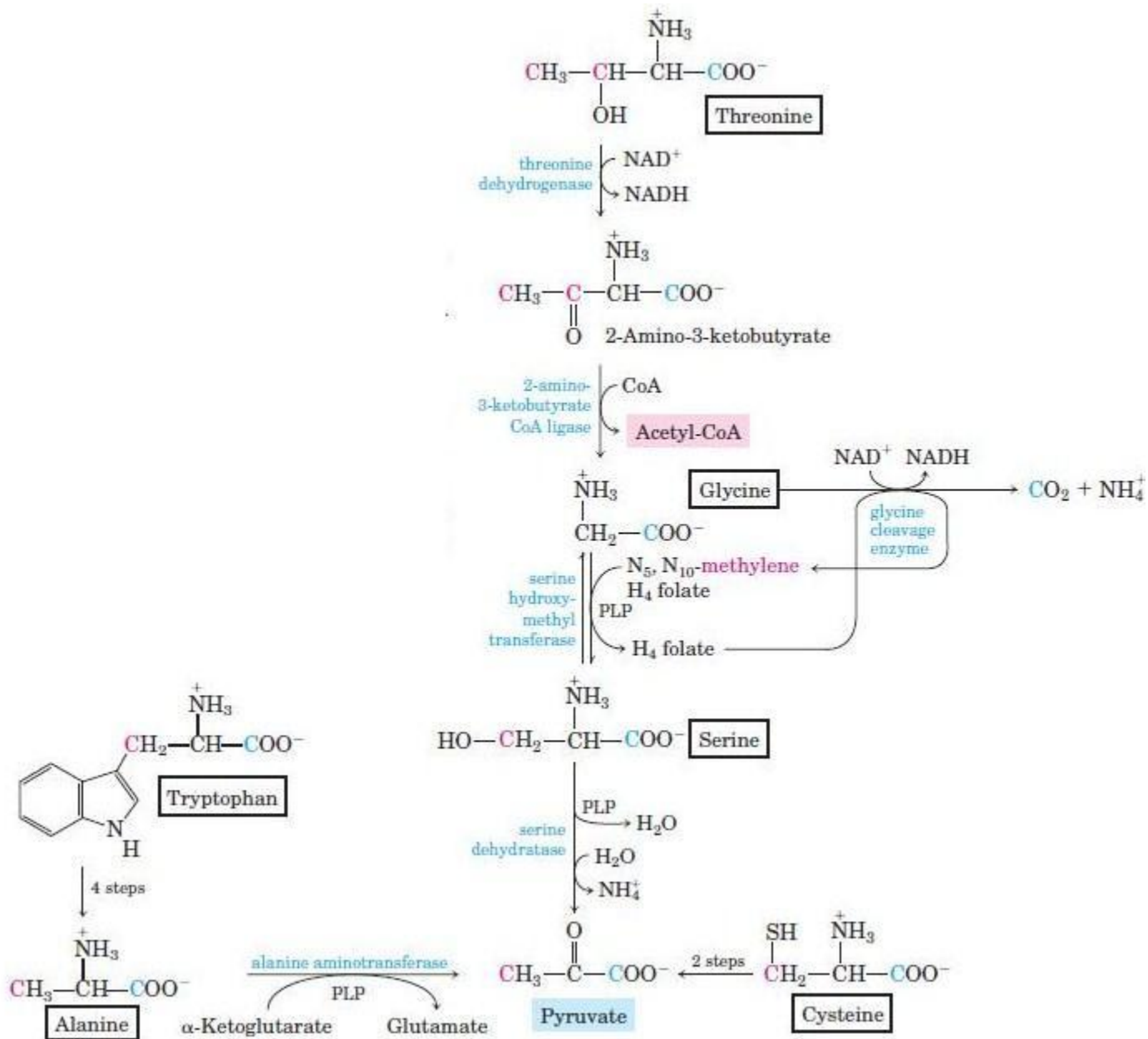




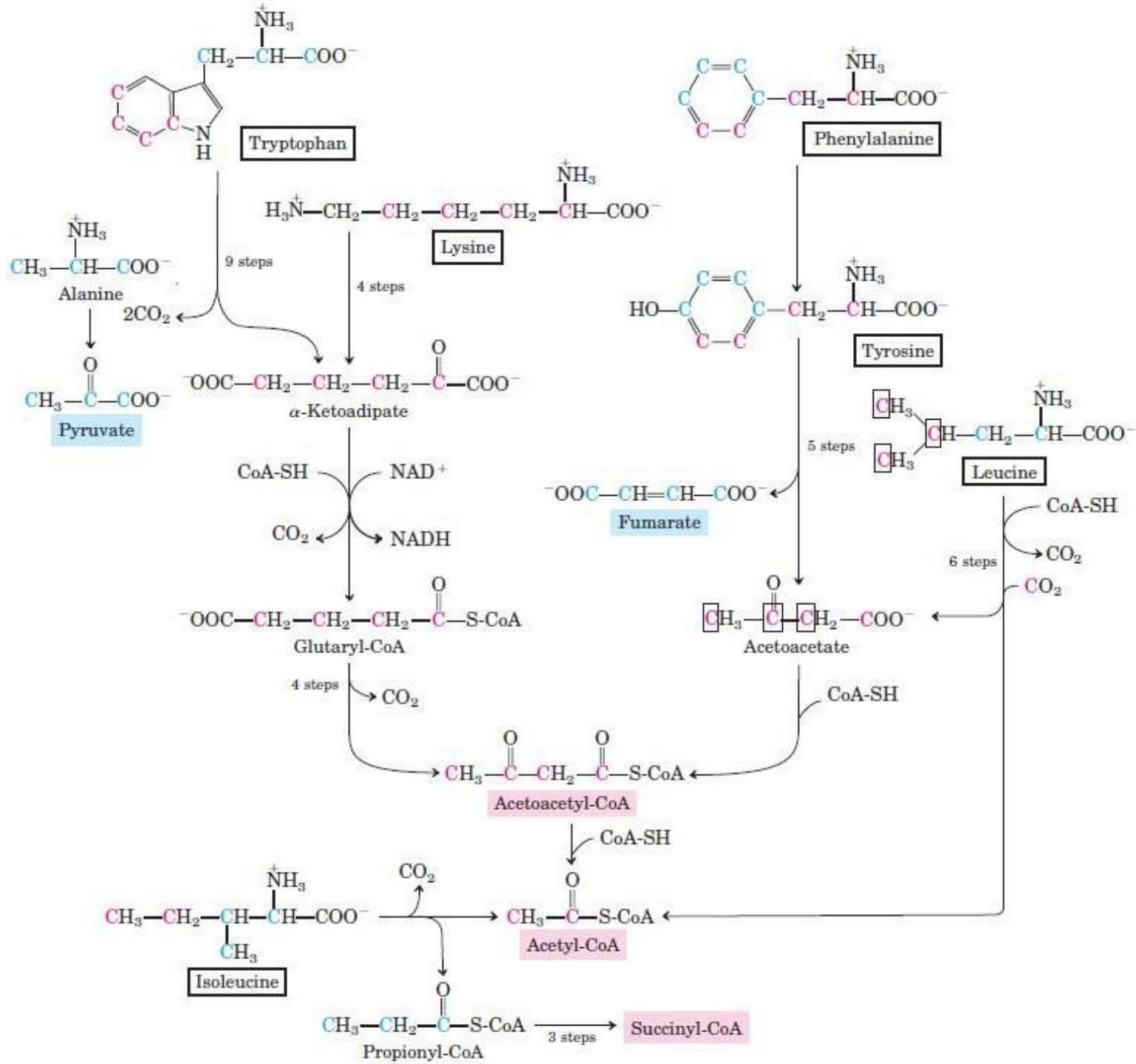


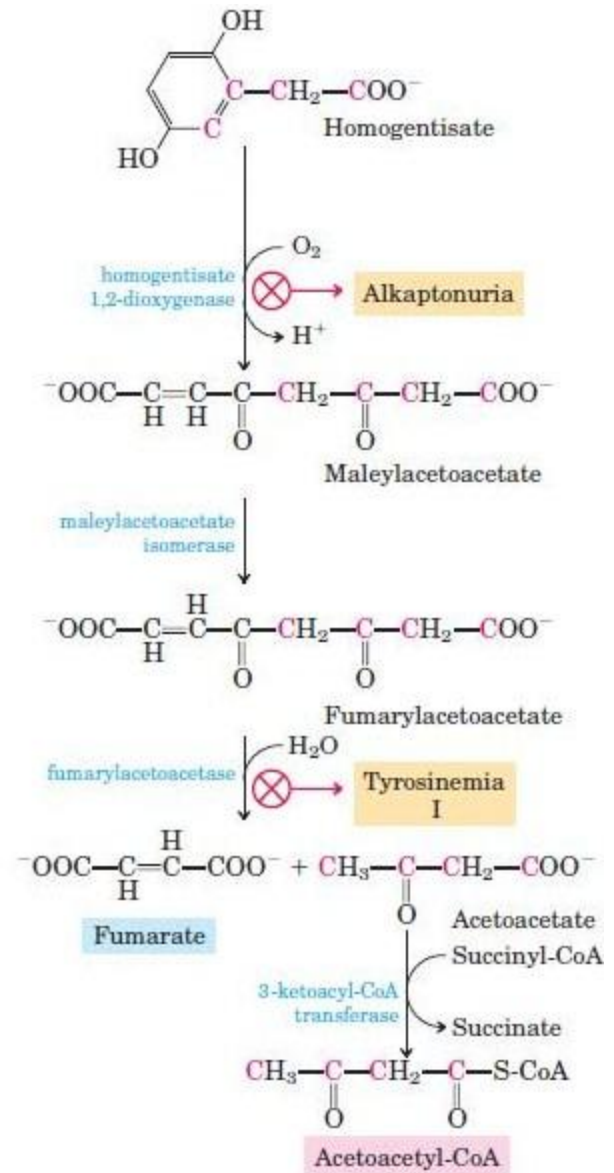
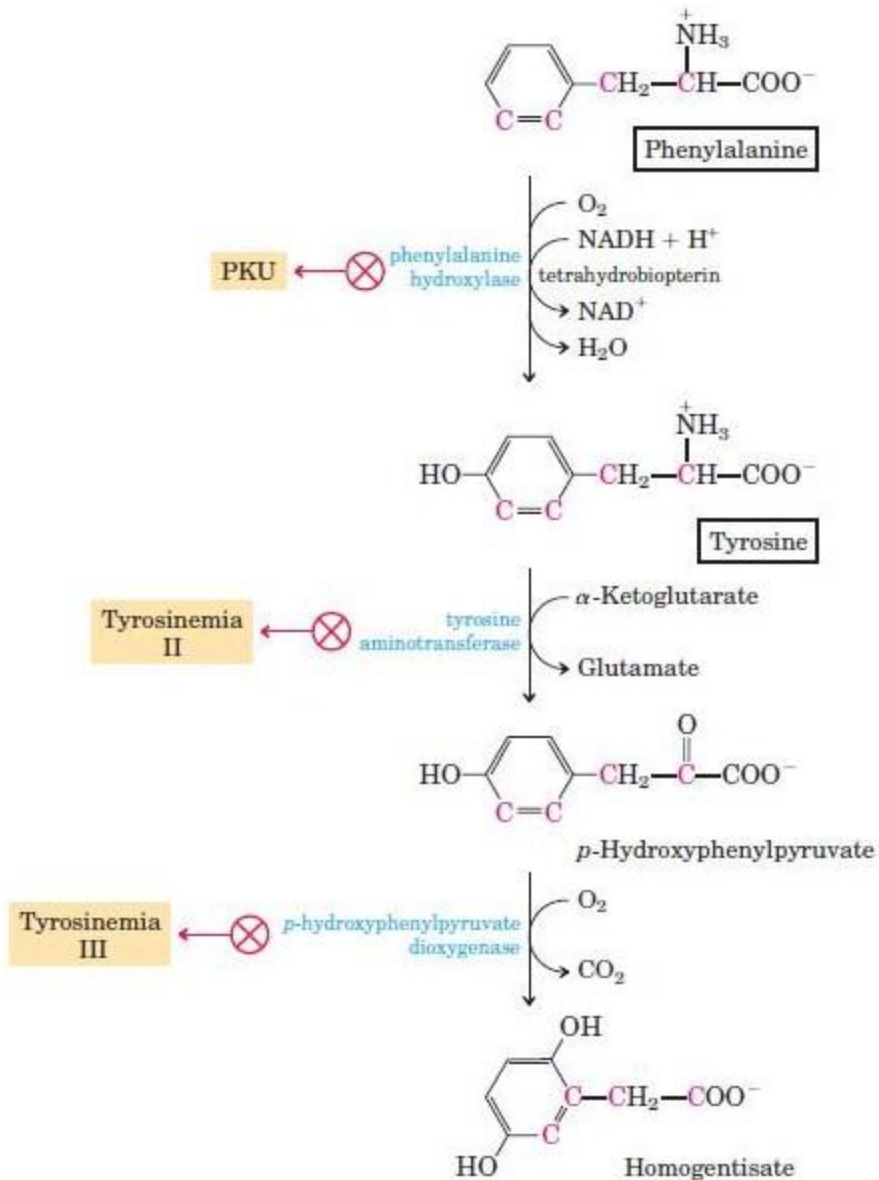


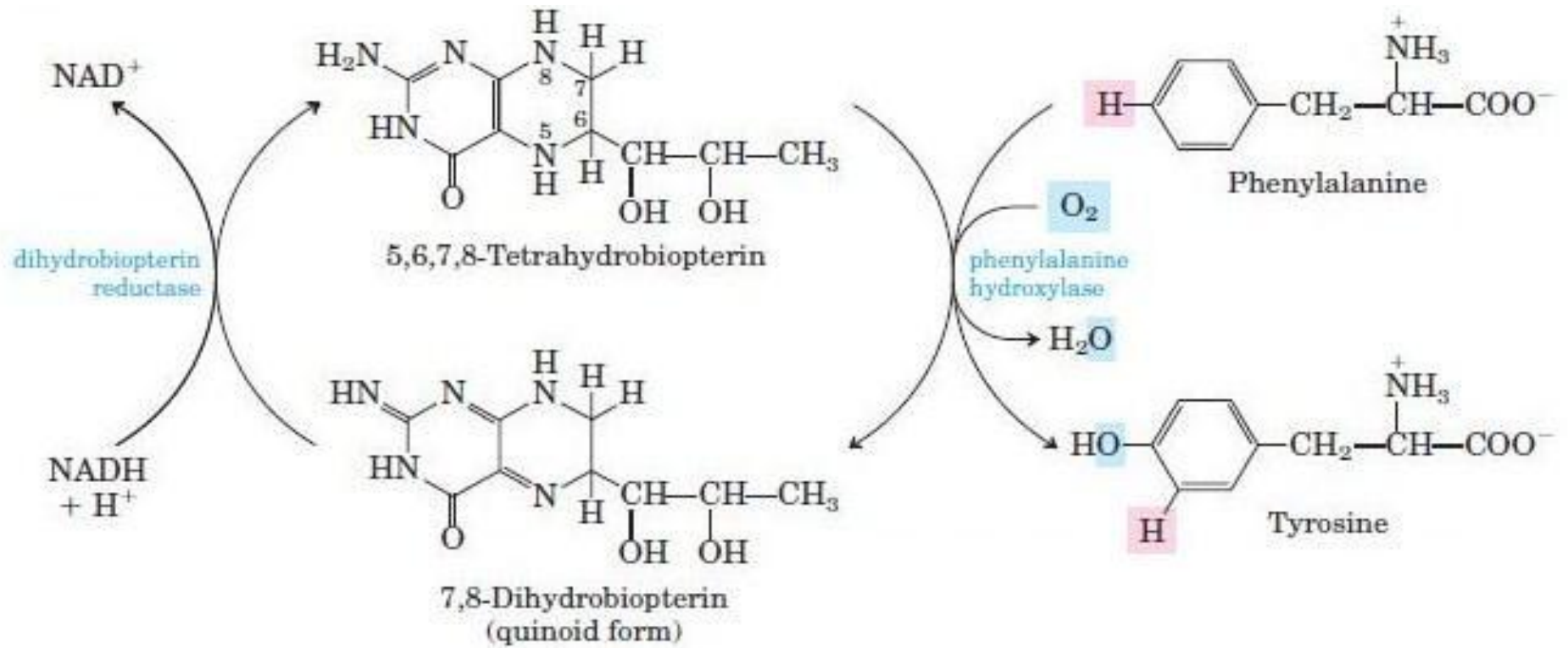


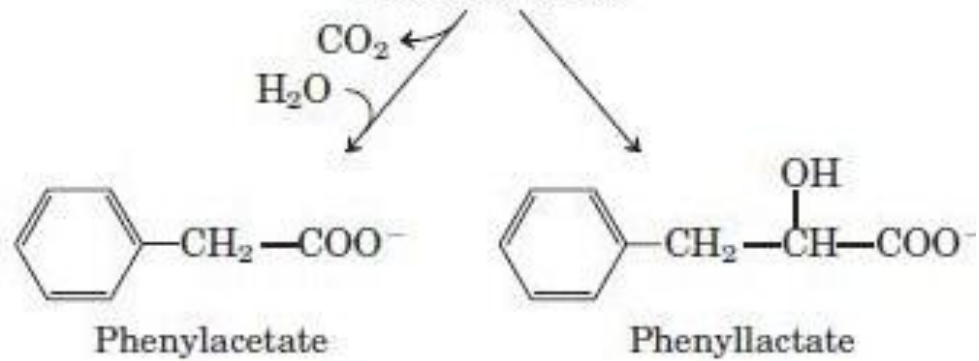
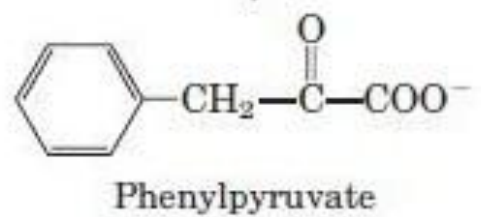
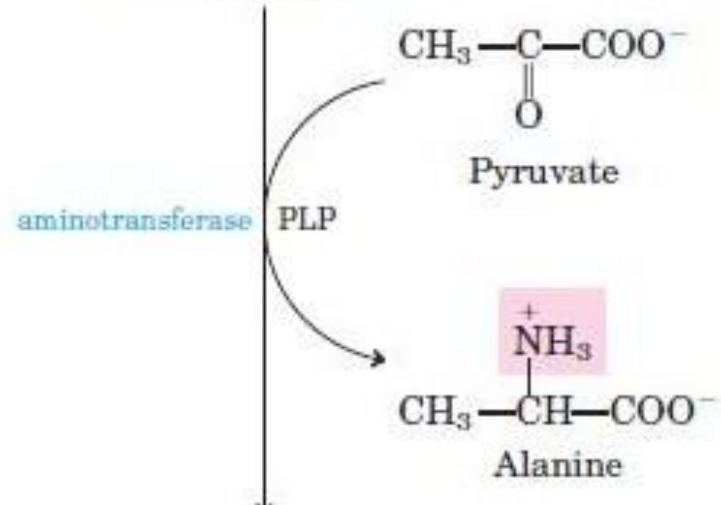
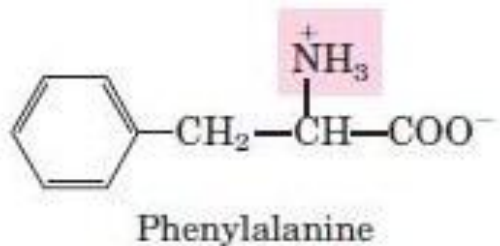


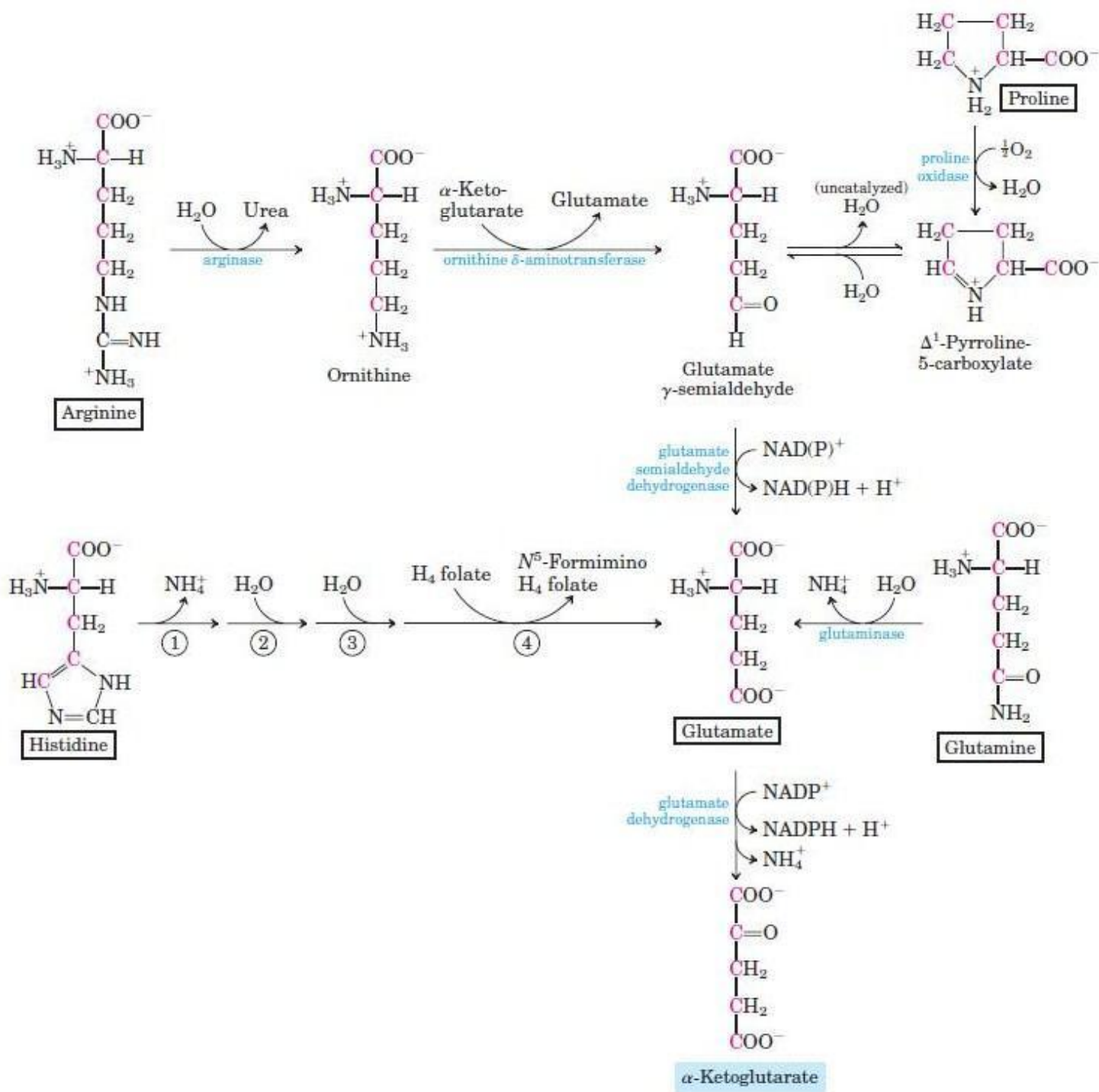


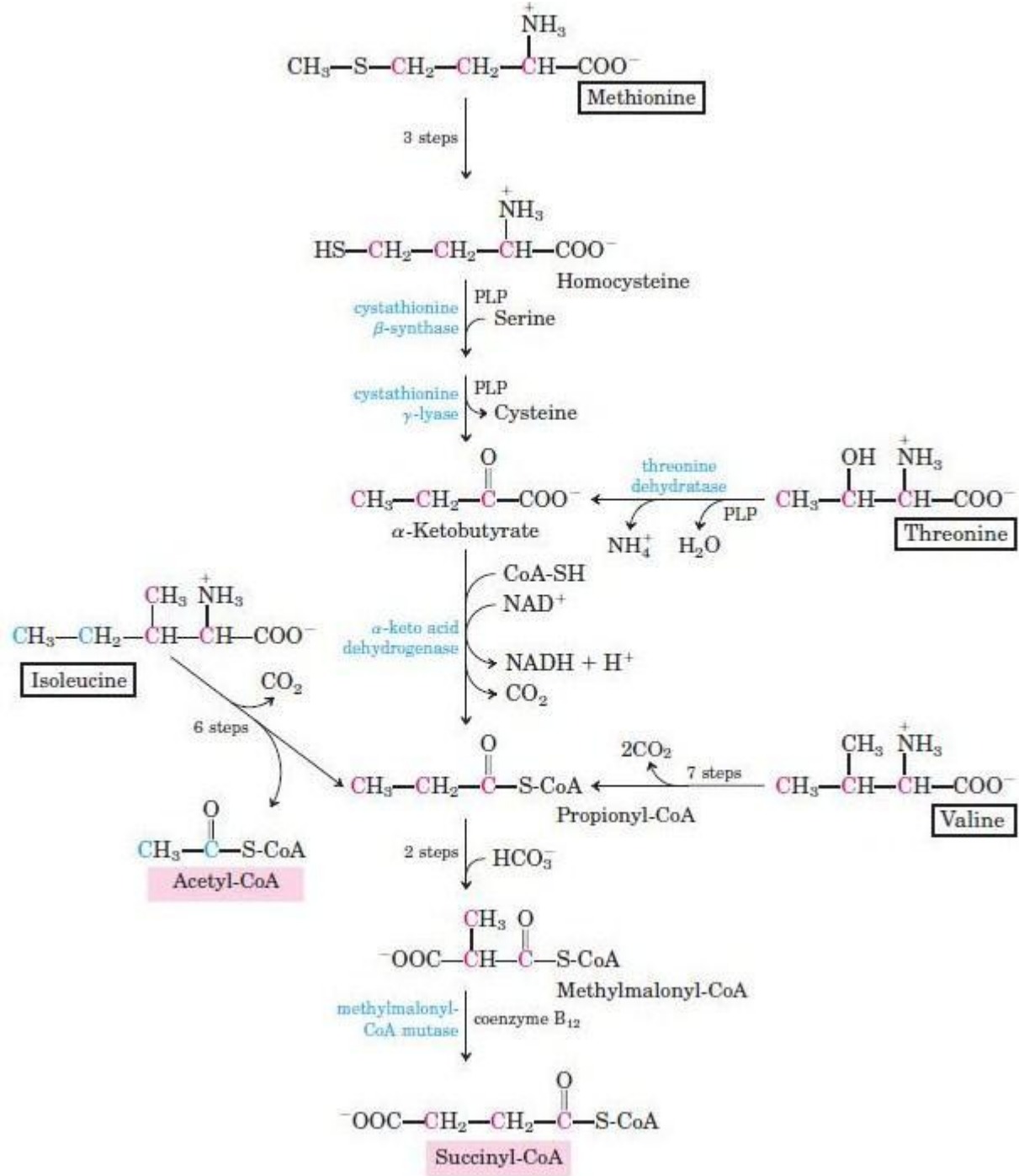


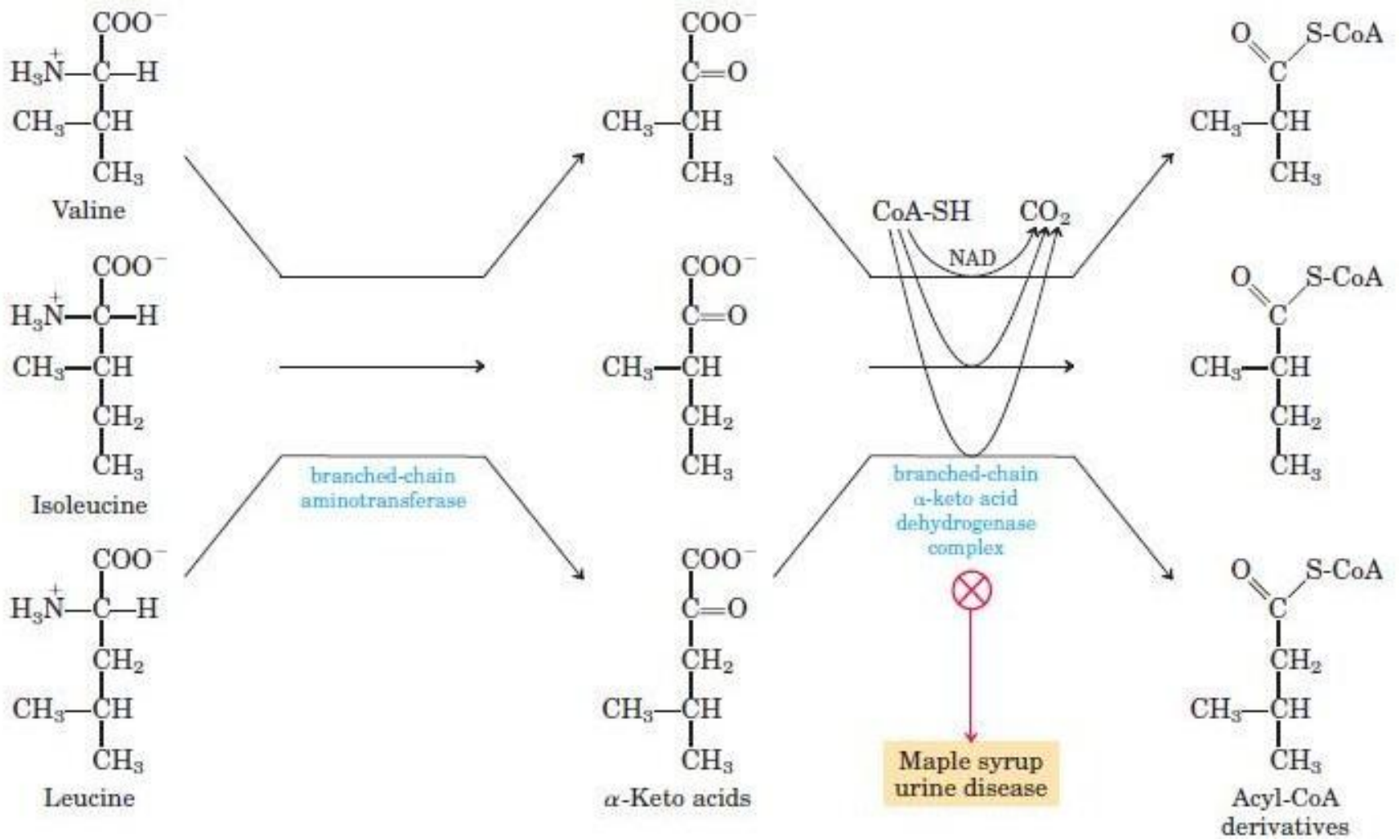




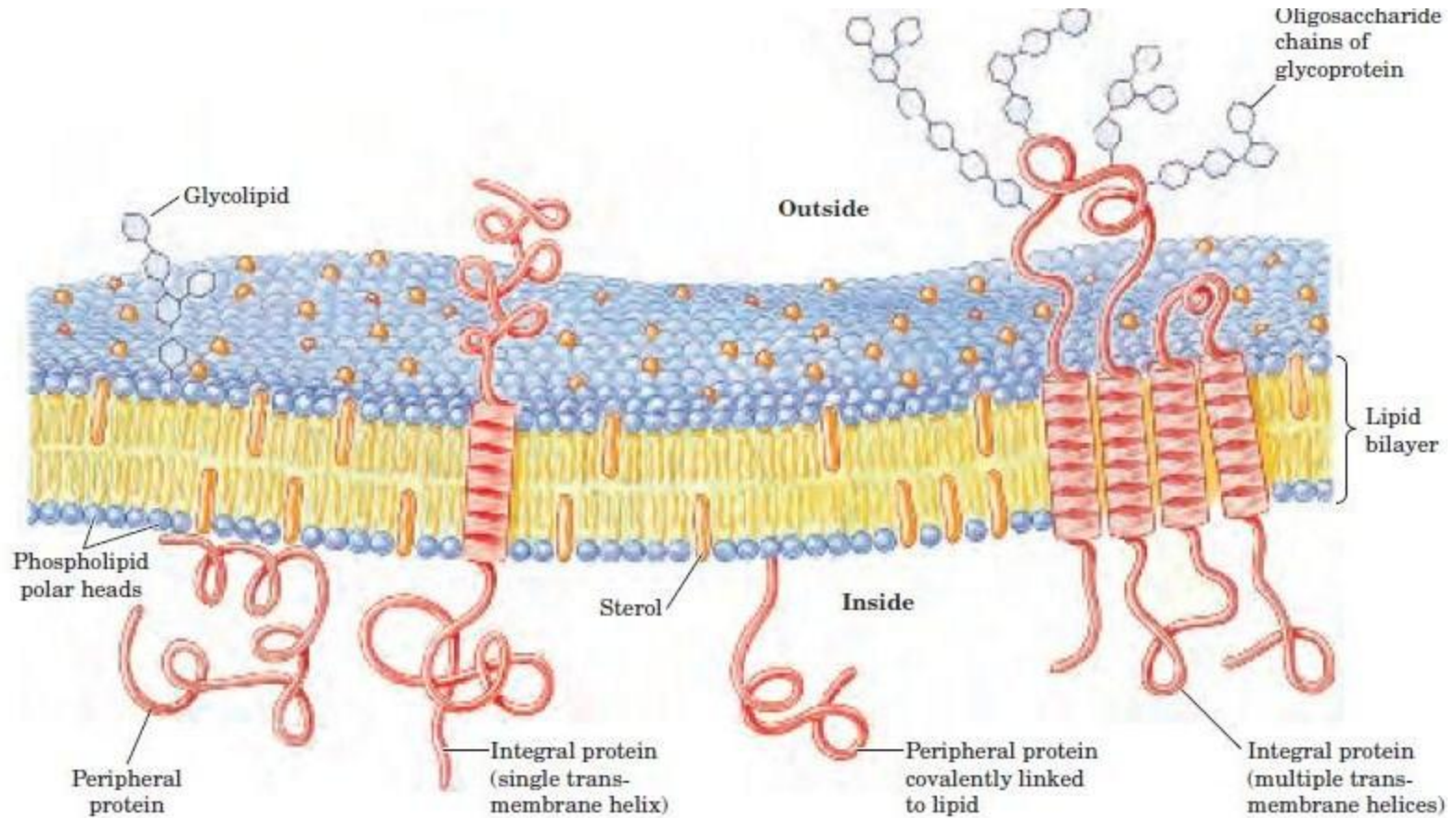








# Організація мембрани клітини

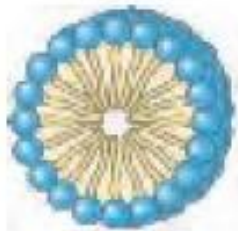




# Організація монофосфоліпідів



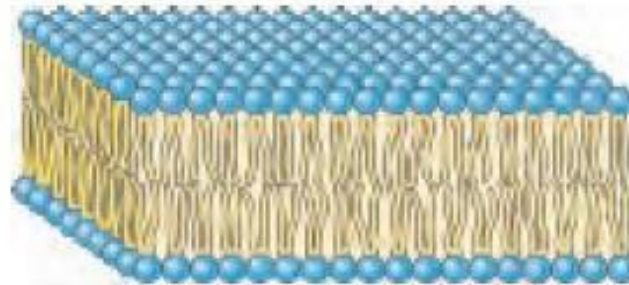
Individual units are wedge-shaped (cross section of head greater than that of side chain)



(a) Micelle

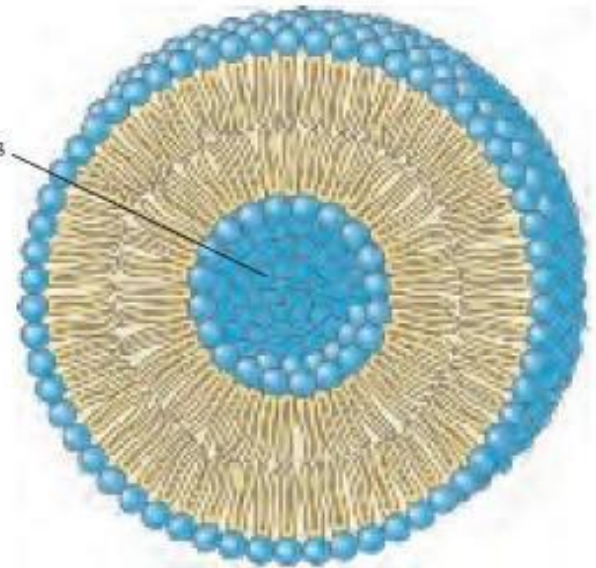


Individual units are cylindrical (cross section of head equals that of side chain)



(b) Bilayer

Aqueous cavity



(c) Liposome

# **Наступна лекція**

**Тема: «Азотисті основи. Синтез білків»**

**Дата проведення: 9 вересня 2014 року**

*Пропозиції та побажання, а також  
заохочення та підтримку кидайте в урну*