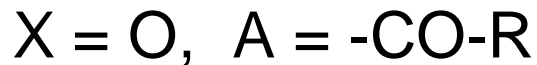
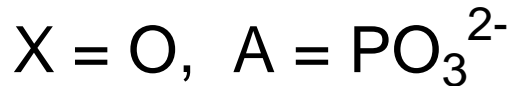


peptidasi, lactamasi, collagenasi

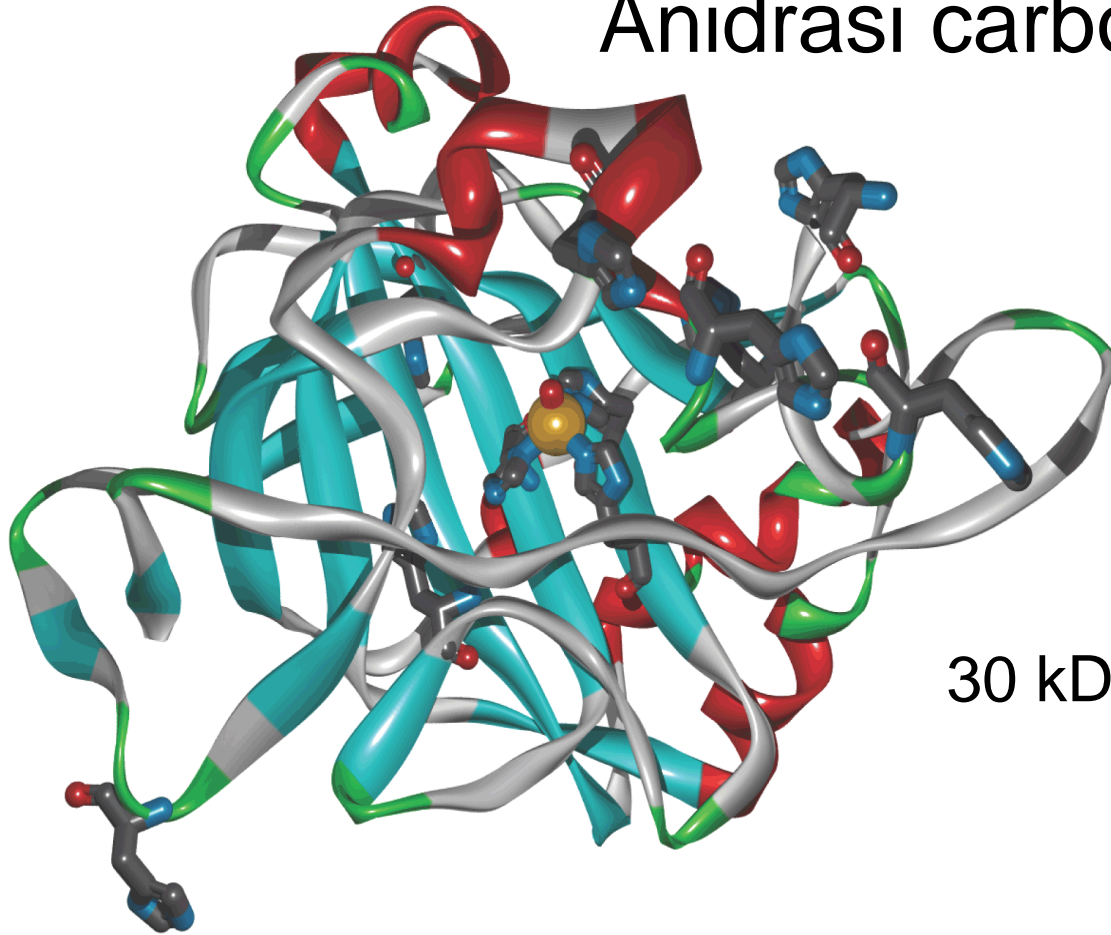


esterasi

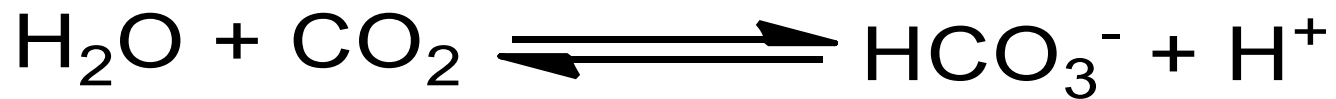


fosfatasi, nucleasi

Anidrase carbonica

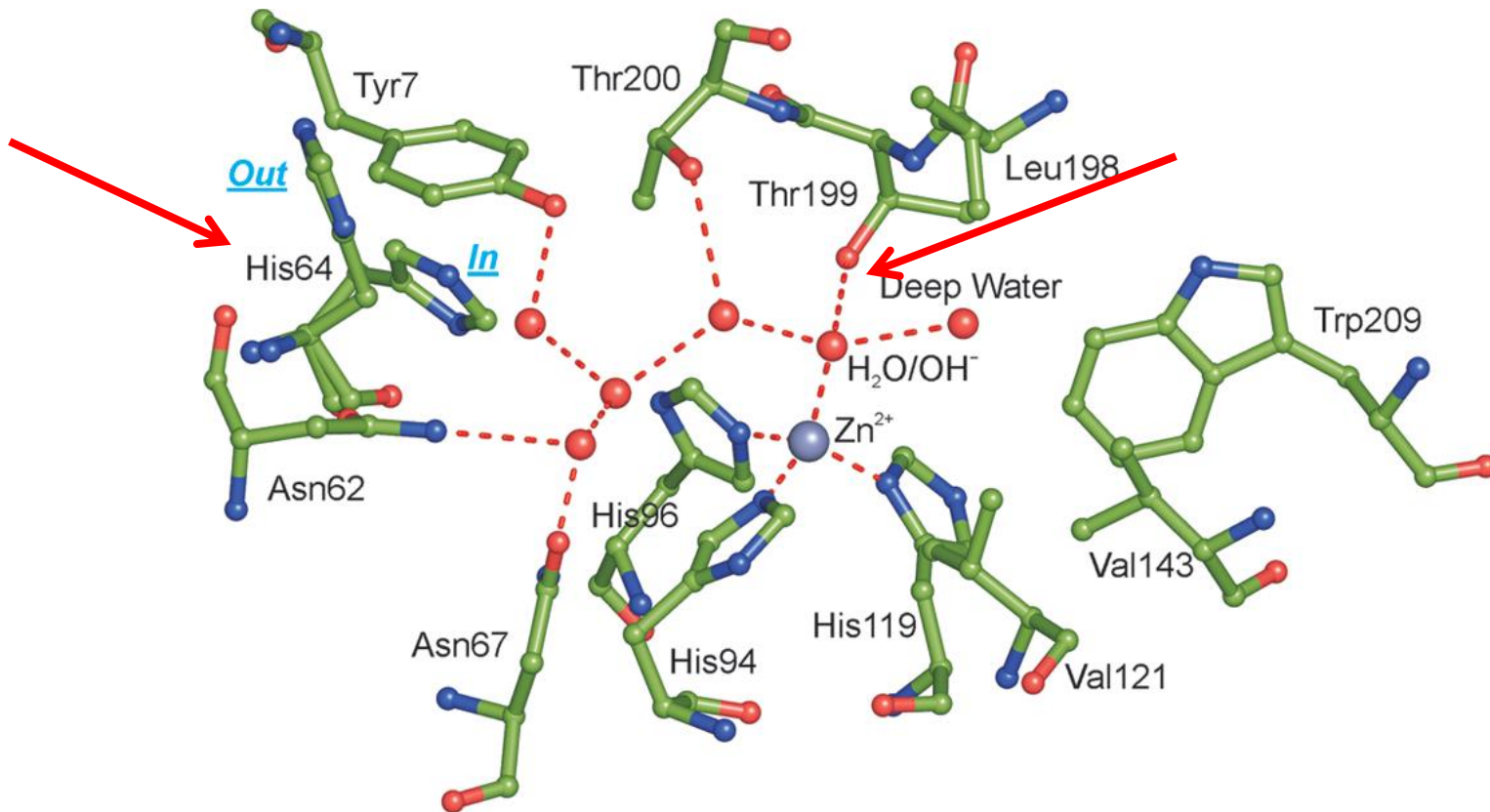
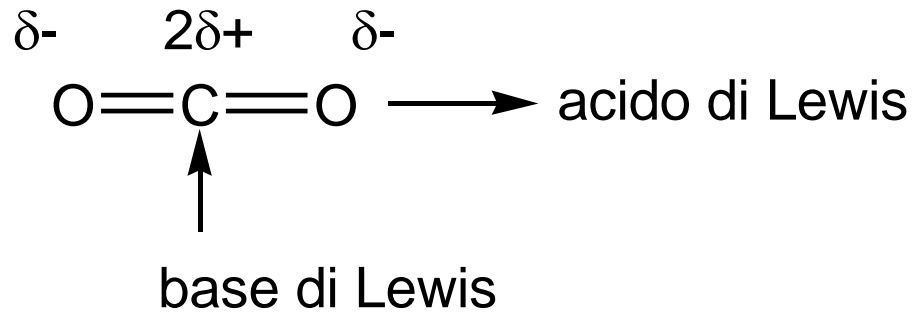


30 kDa, 259 a.a.

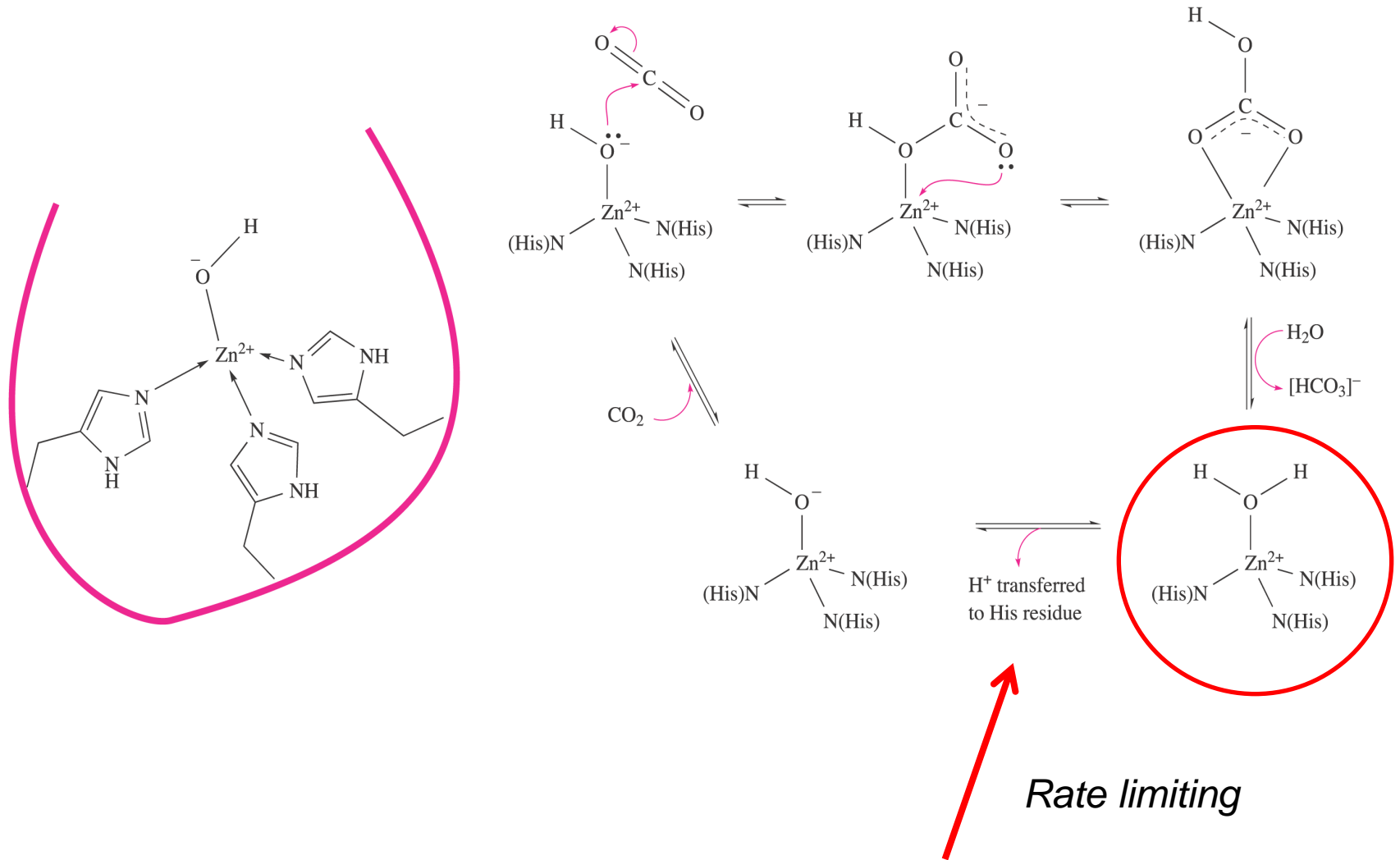


$$k \approx 10^{-1} \text{ s}^{-1} \rightarrow 10^6 \text{ s}^{-1}$$

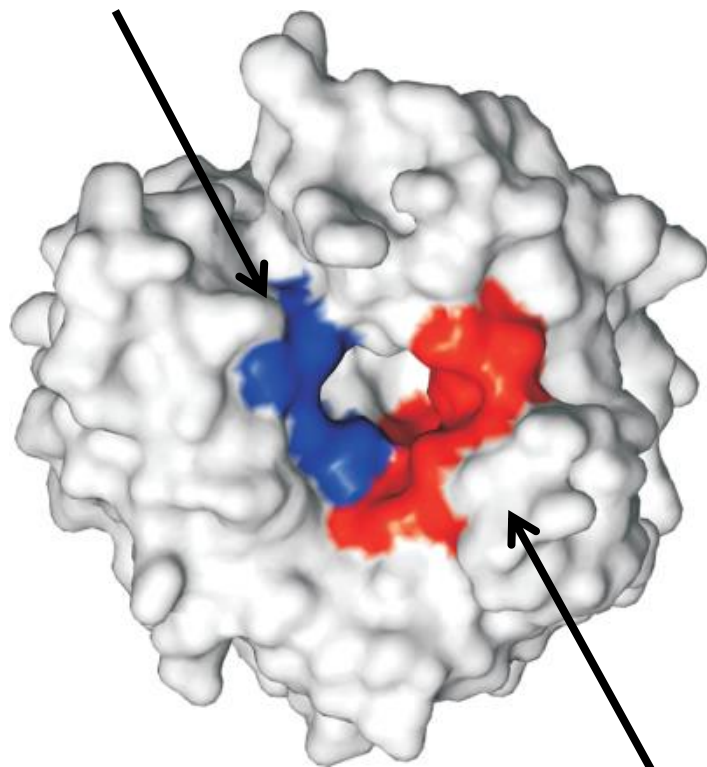
Sito catalitico della anidrasi carbonica



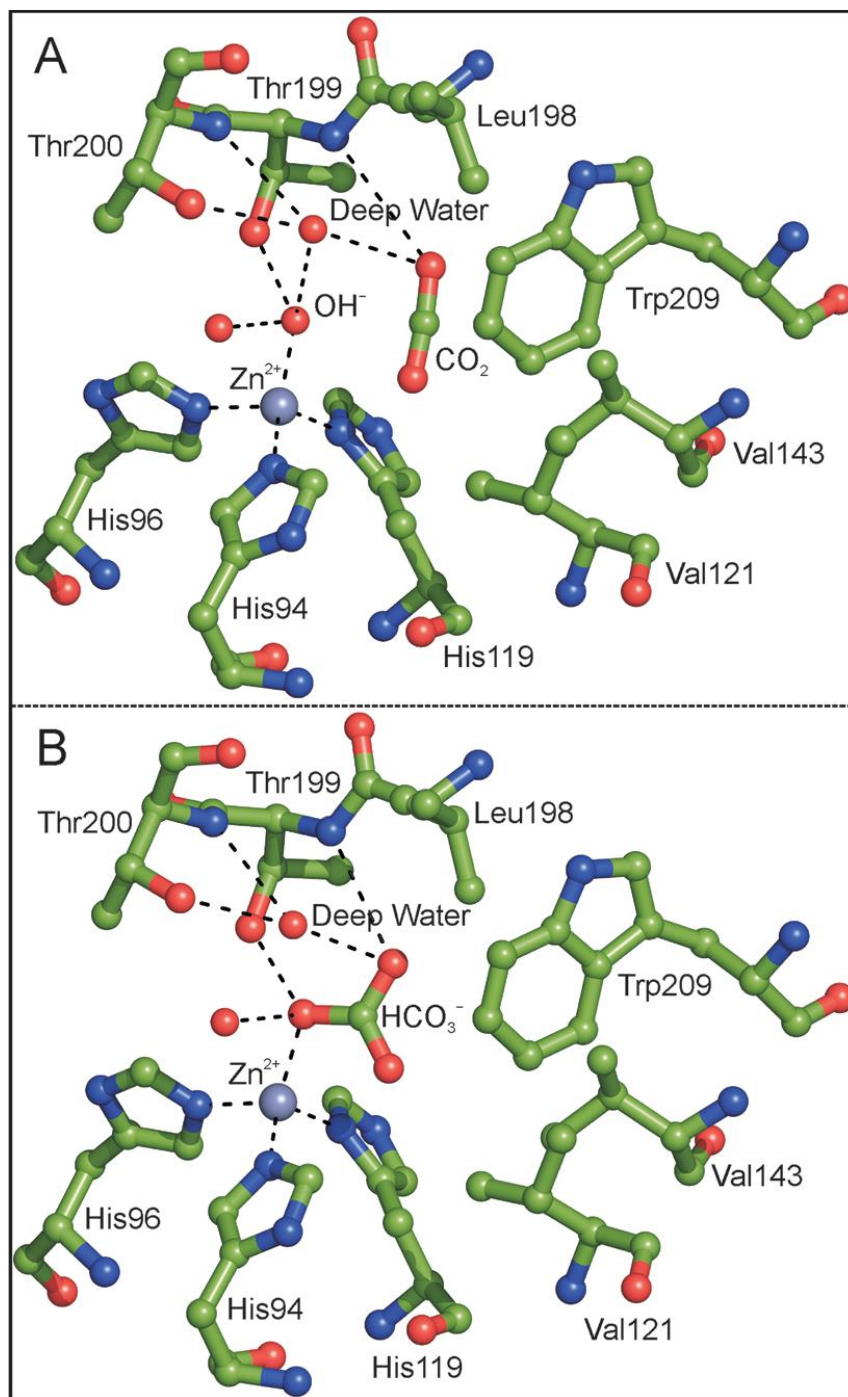
Ciclo catalitico della anidraasi carbonica



Regione idrofilica

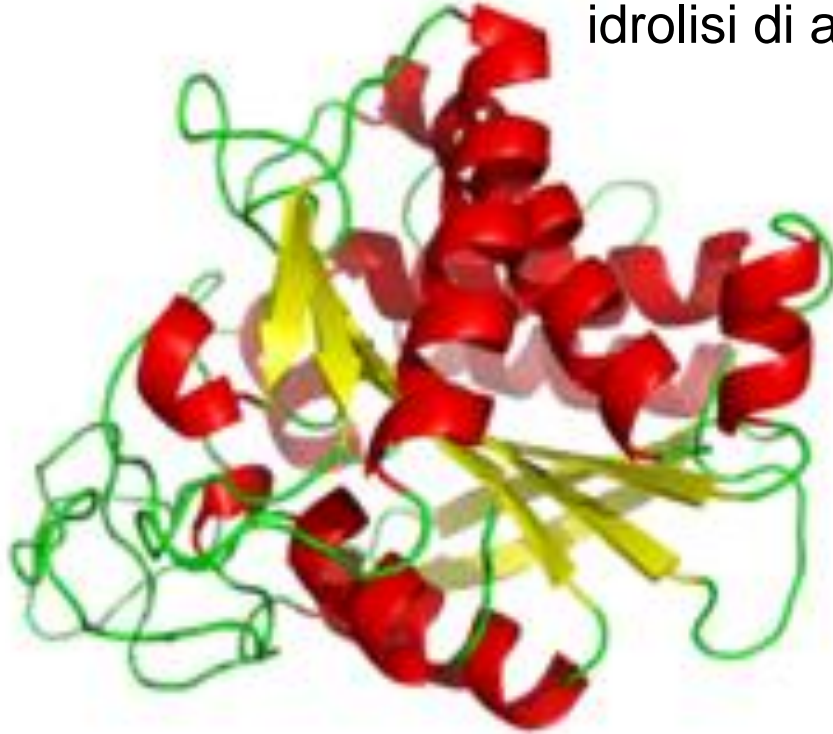


Regione idrofobica

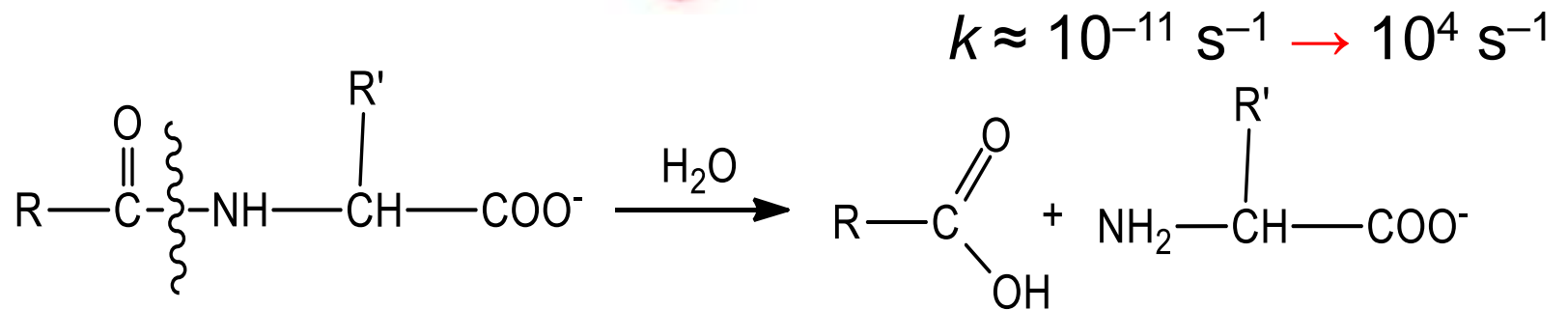


Carbossipeptidasi A (CPD A)

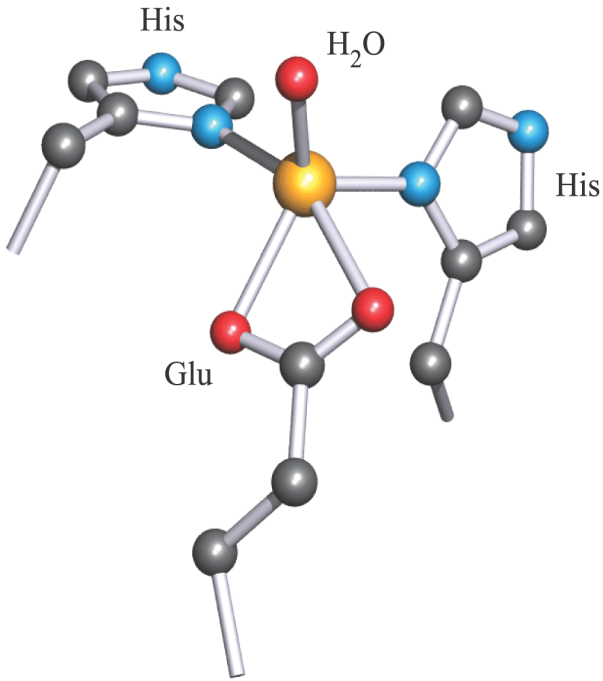
idrolisi di amminoacidi C-terminali



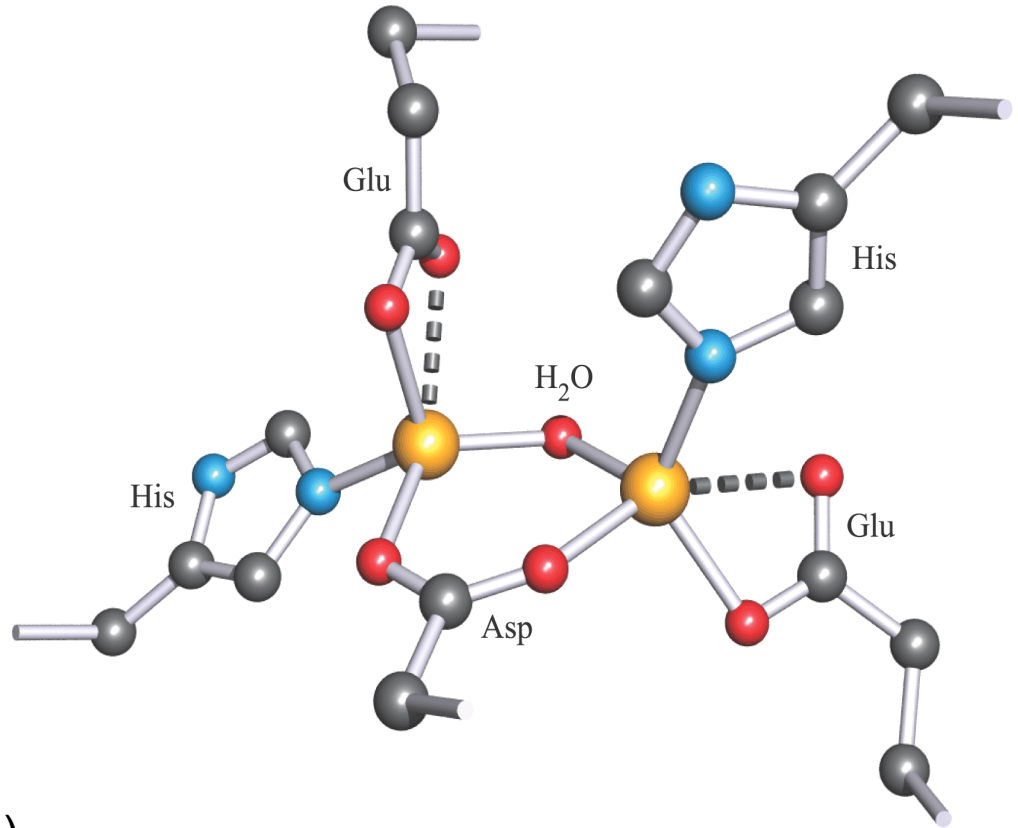
34 kDa, 300 a.a.



Siti attivi di carbossipeptidasi

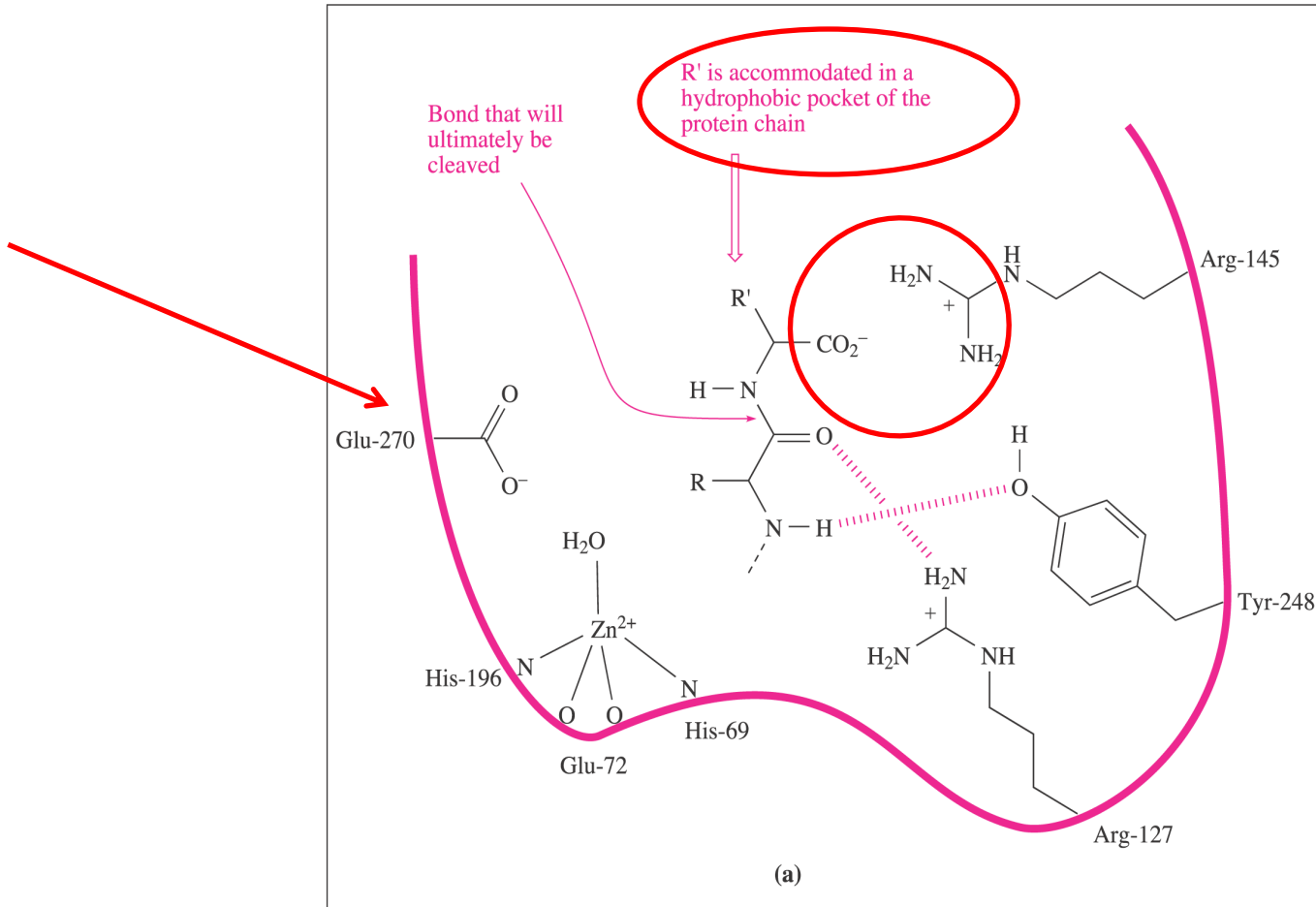


Carbossipeptidasi A (CPD A, bovino)

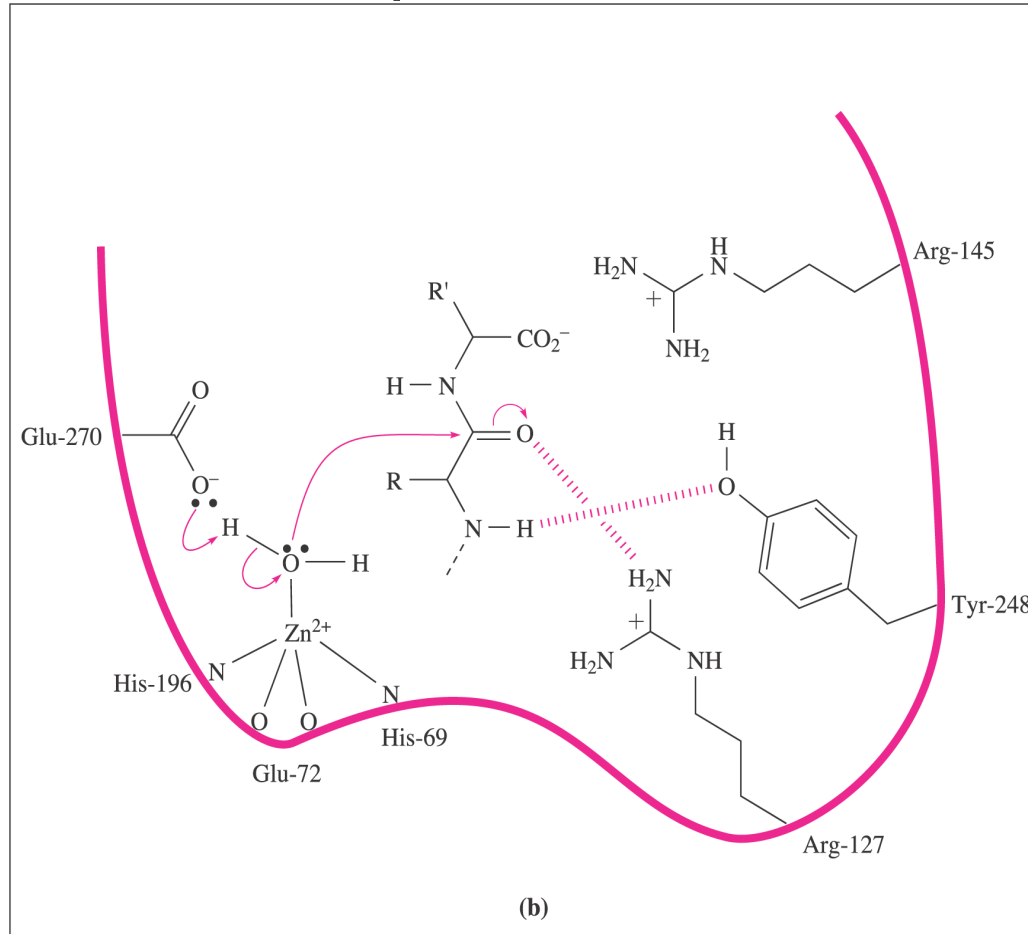


Carbossipeptidasi G2 (CPG2, batterio)

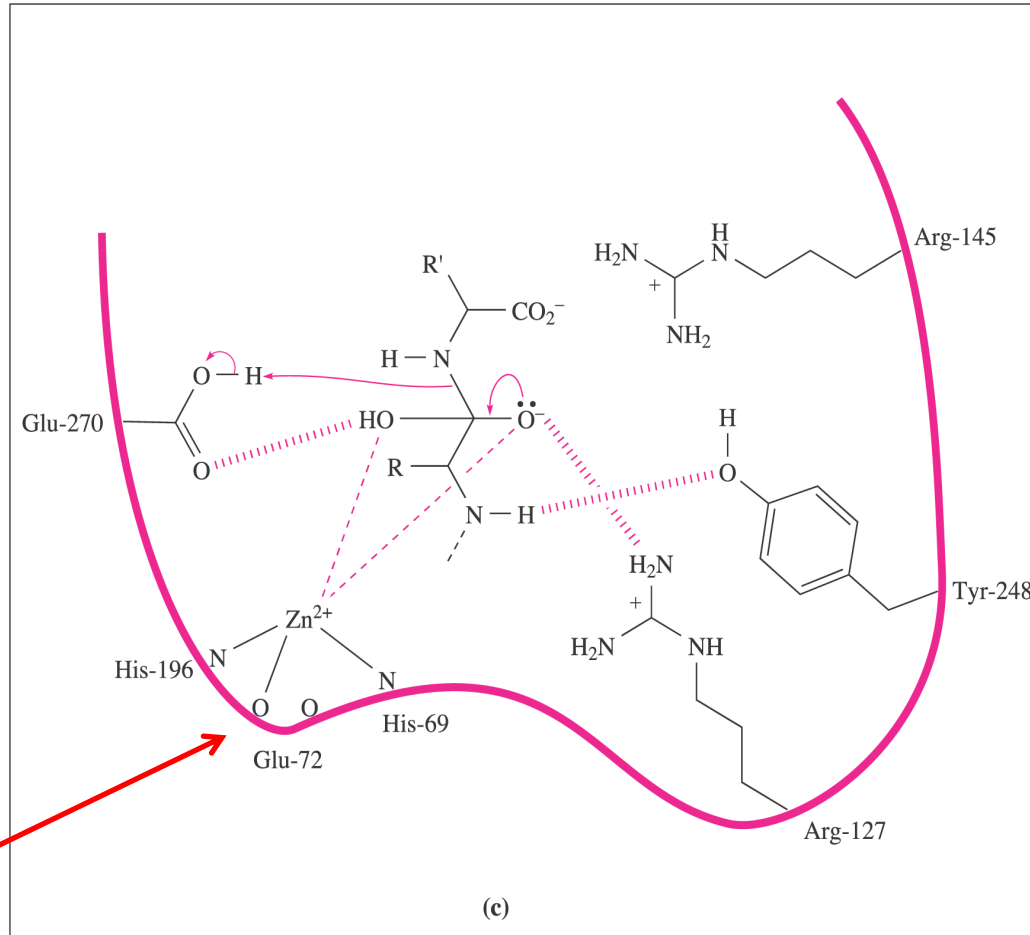
Posizionamento del substrato vicino al sito attivo della CPA



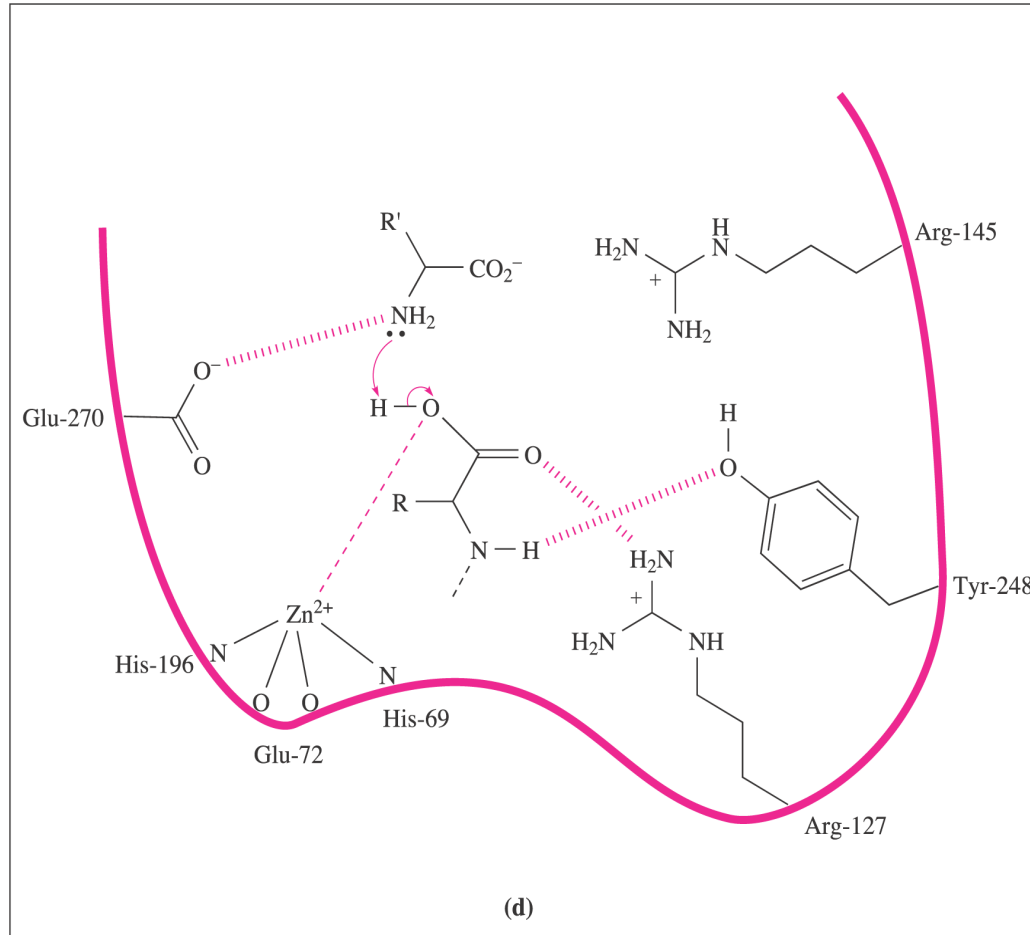
Attivazione dell'acqua e suo attacco nucleofilo



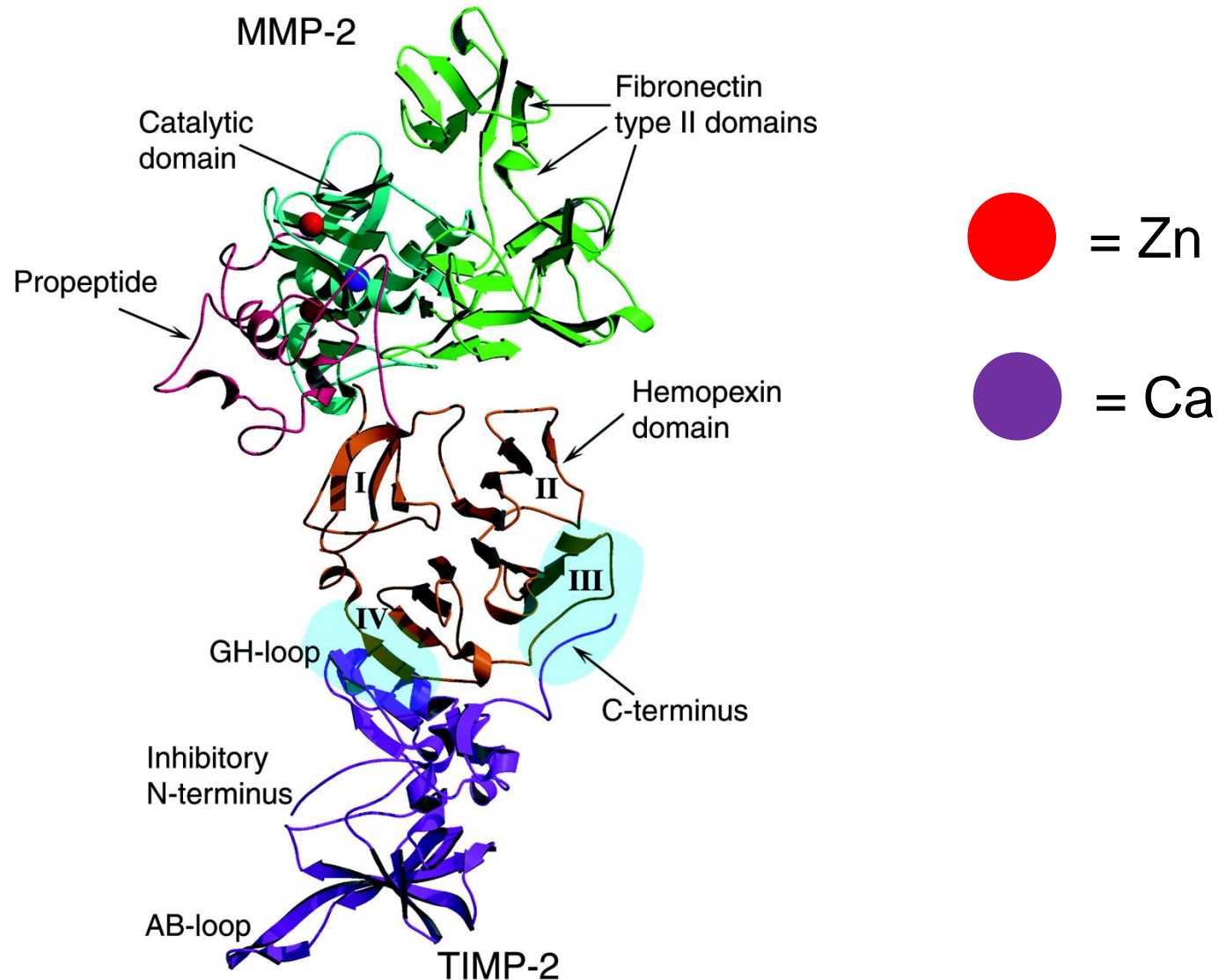
Rottura del legame peptidico C-N



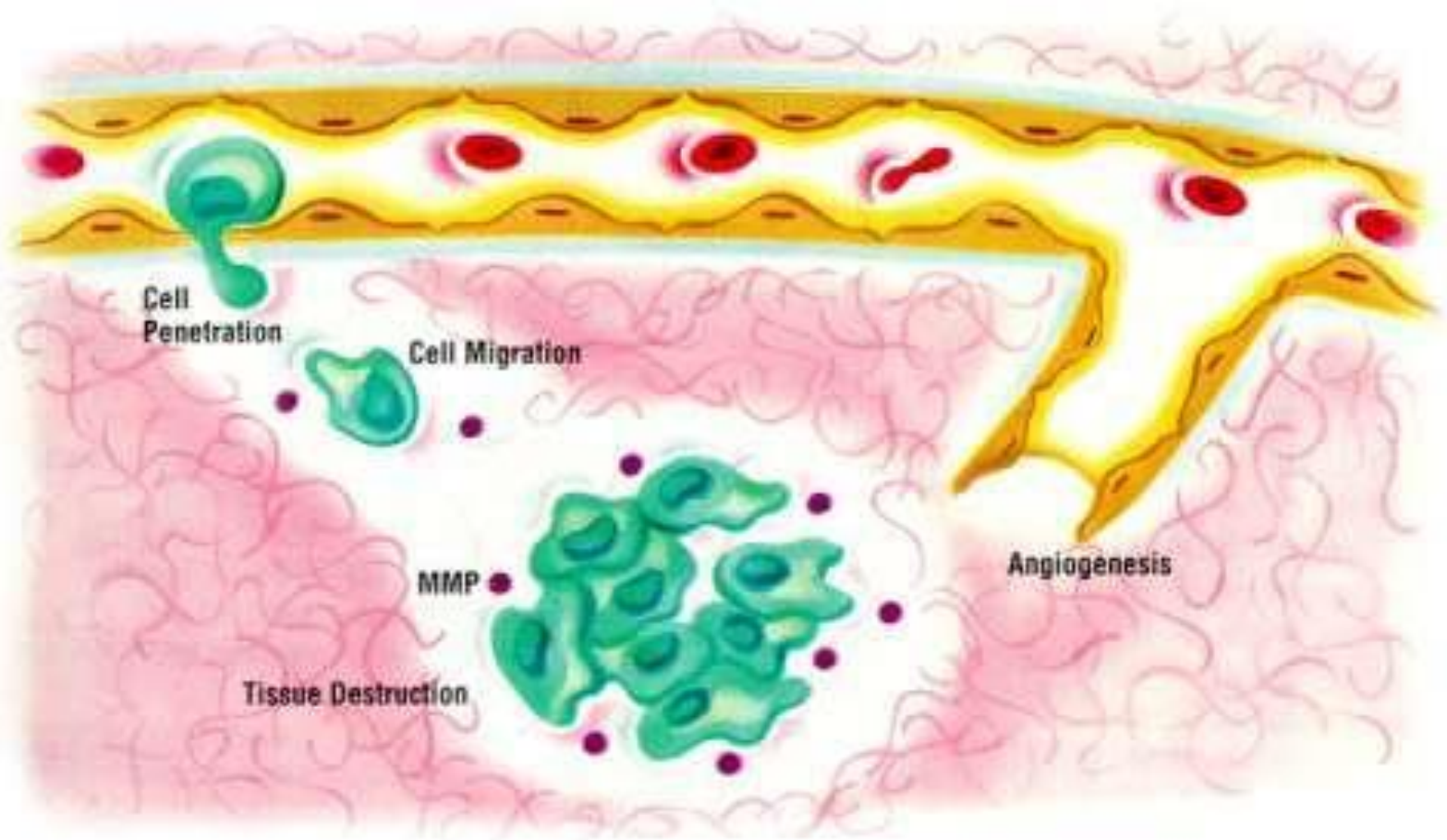
Trasferimento di un protone con formazione di NH_3^+ e del carbossilato



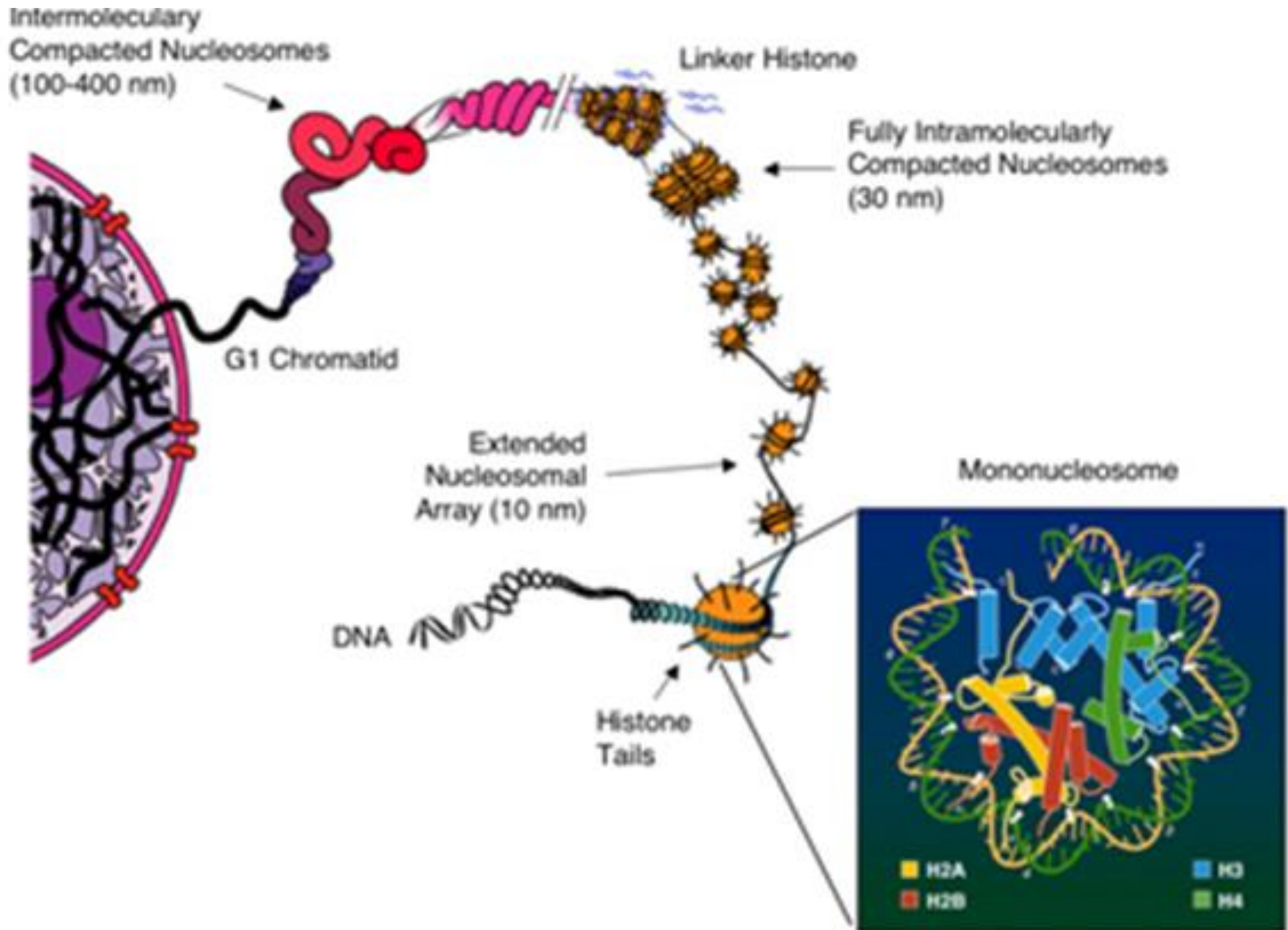
Matrix Metalloproteinases (MMPs) + Tissue Inhibitors of Metalloproteinases (TIMPs)

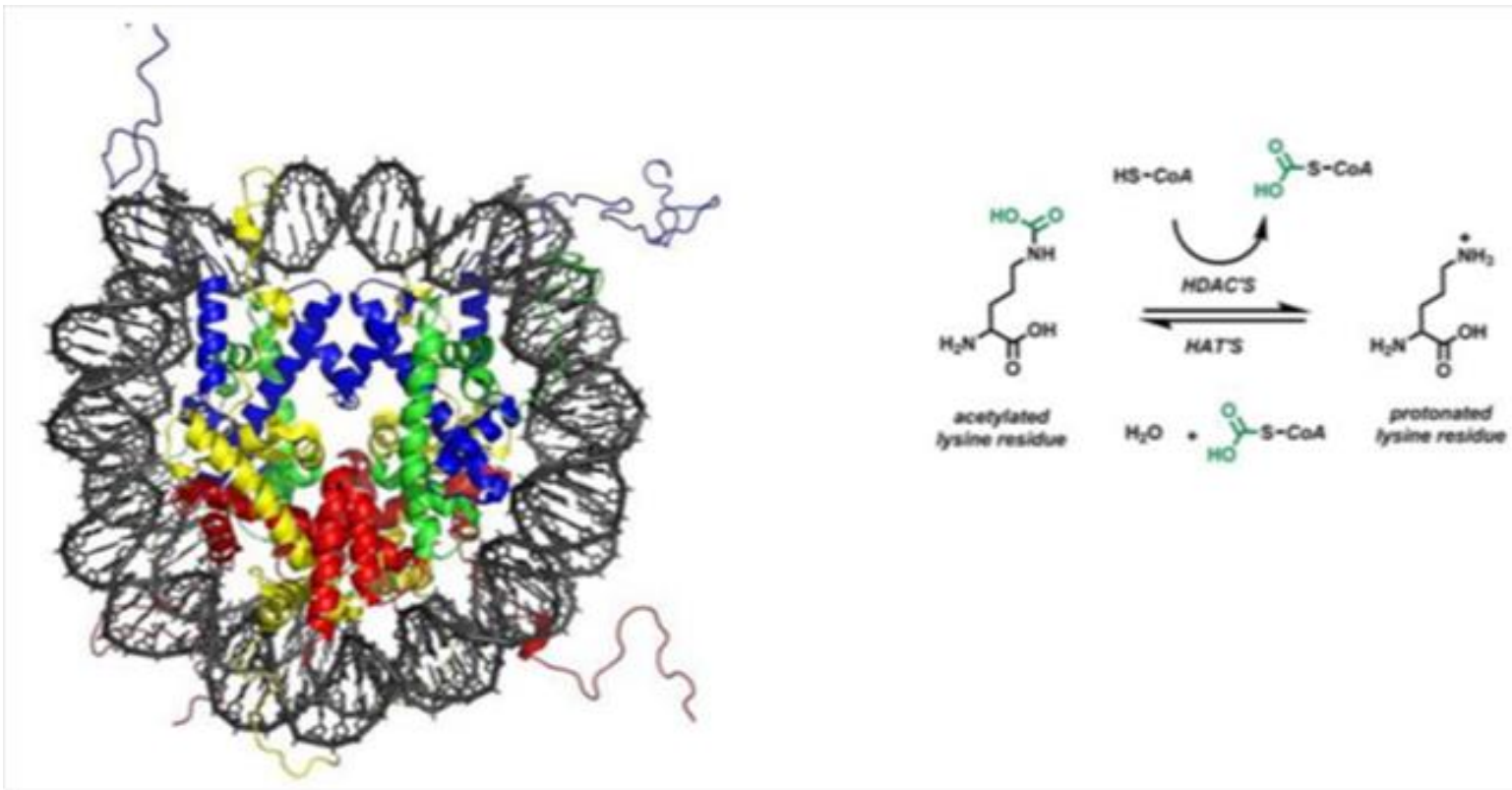


Processo metastatico favorito da MMP

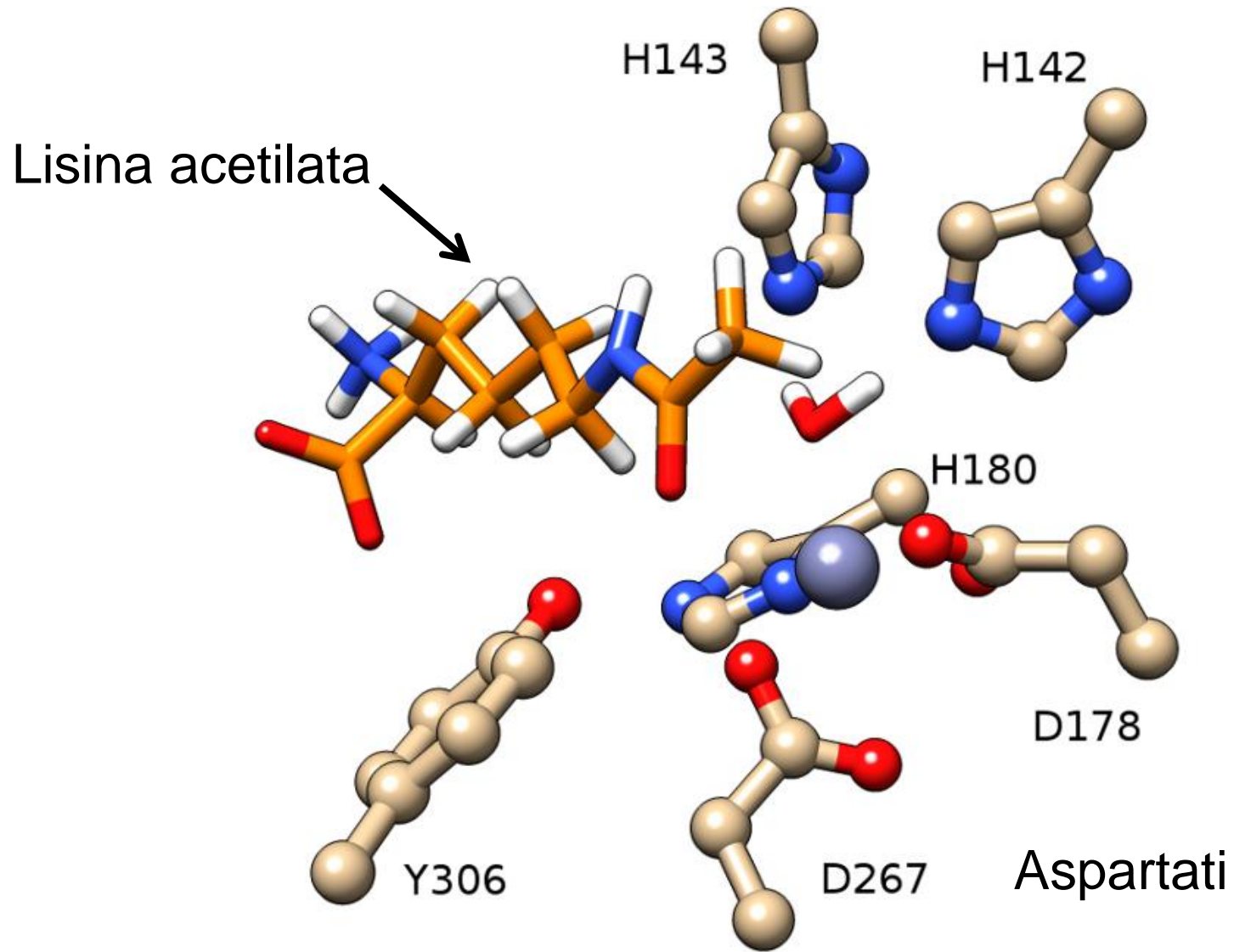


Cromatina e Nucleosomi

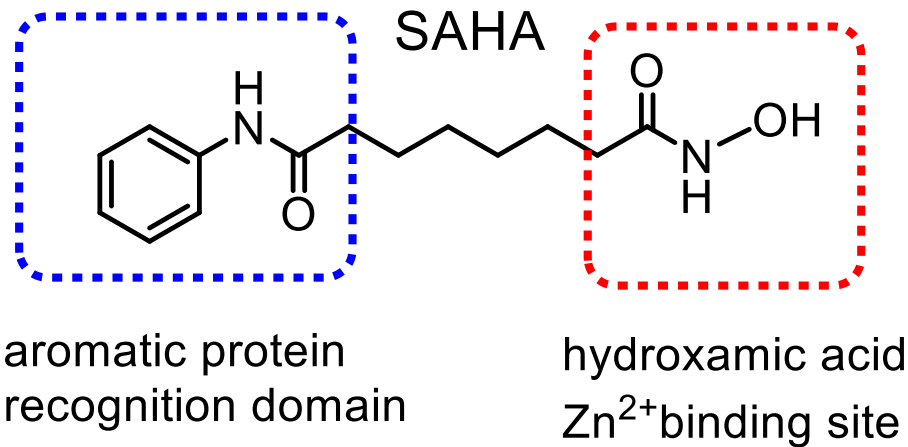




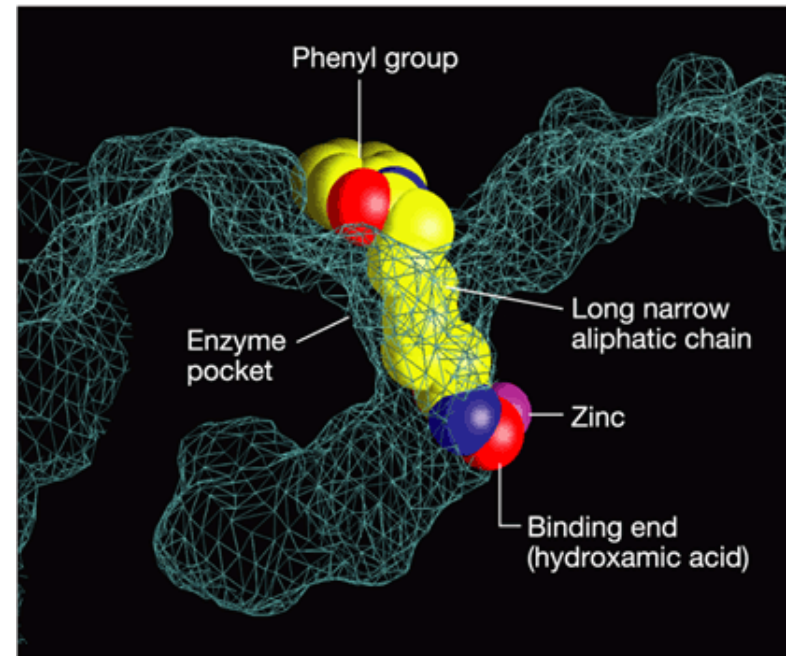
Sito attivo di HDAC8



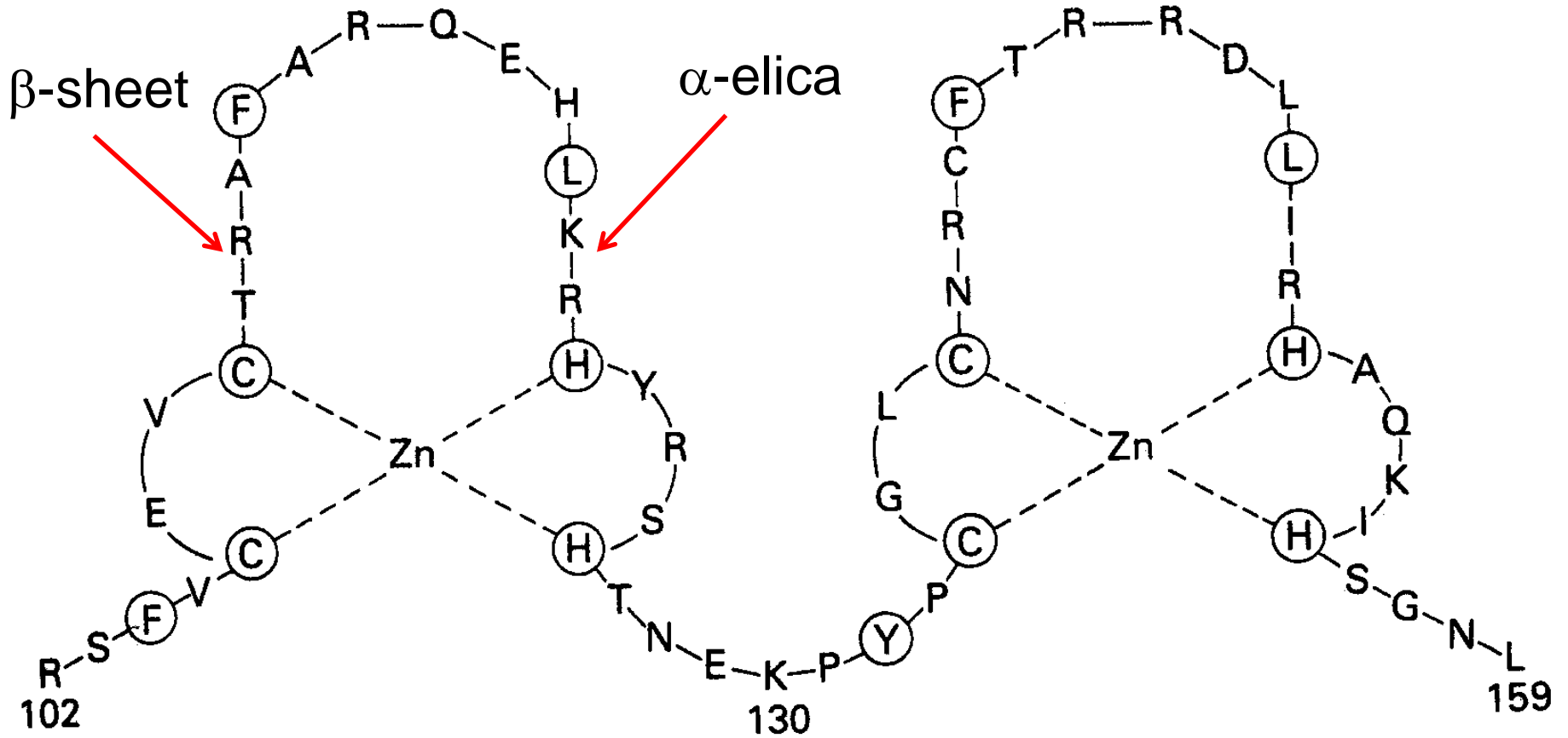
HDAC Inhibitors (HDACi) agenti antitumorali (*modulazione epigenetica del DNA*)



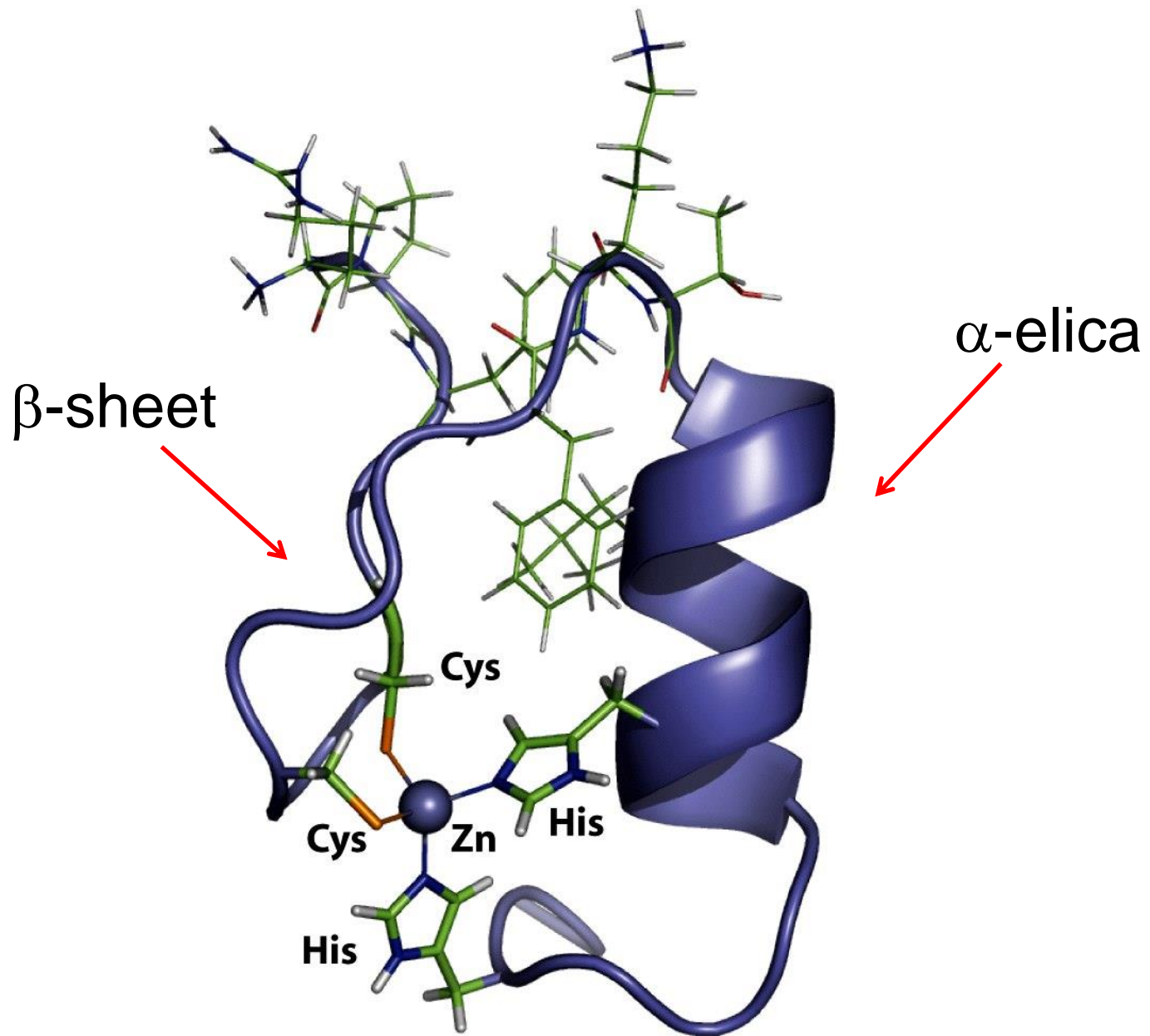
Zolinza®

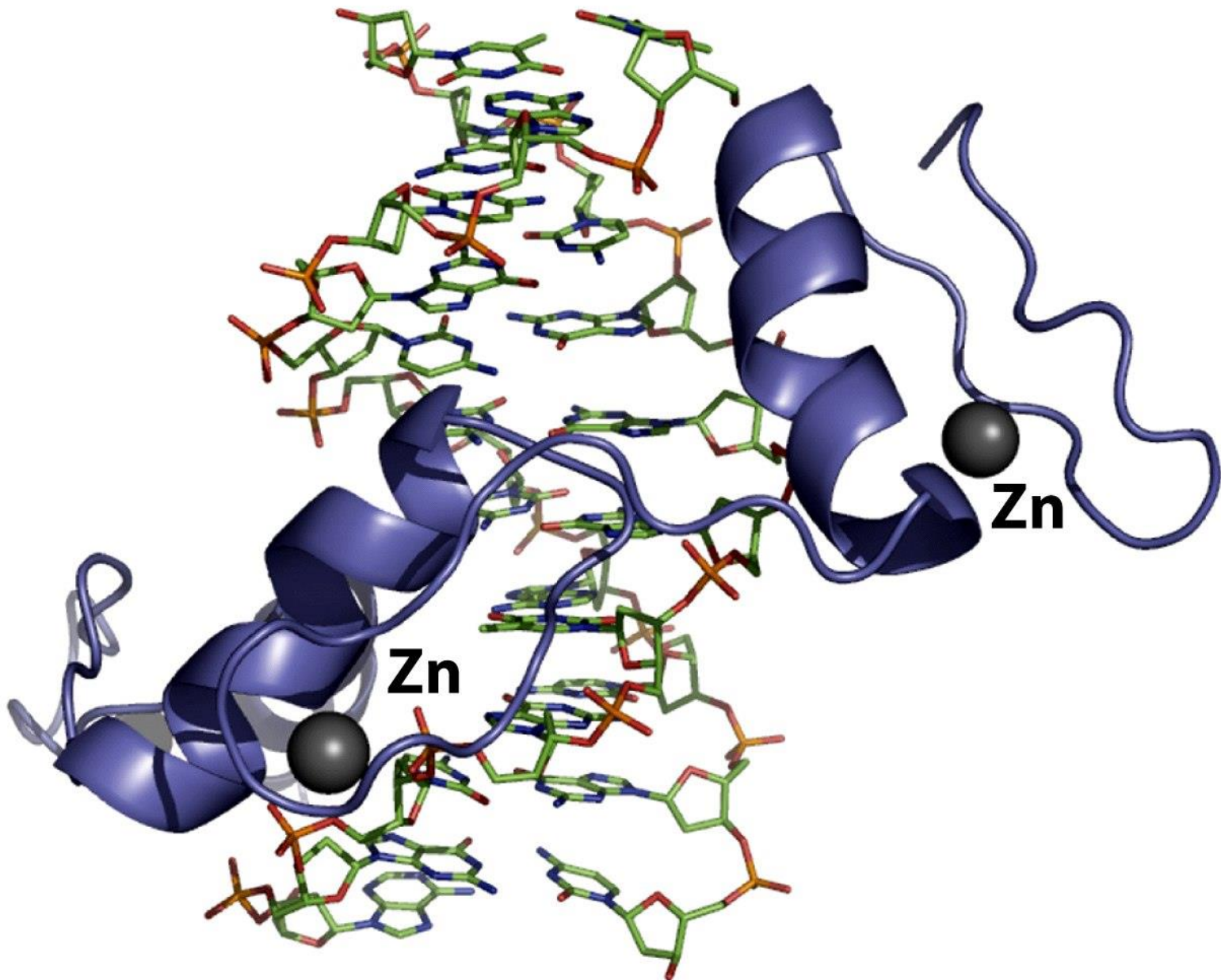


Zinc fingers



gene regulatory proteins e transcription factors





Interazione di zinc-fingers con DNA