

Molekulární fyziologie

Srážení krve

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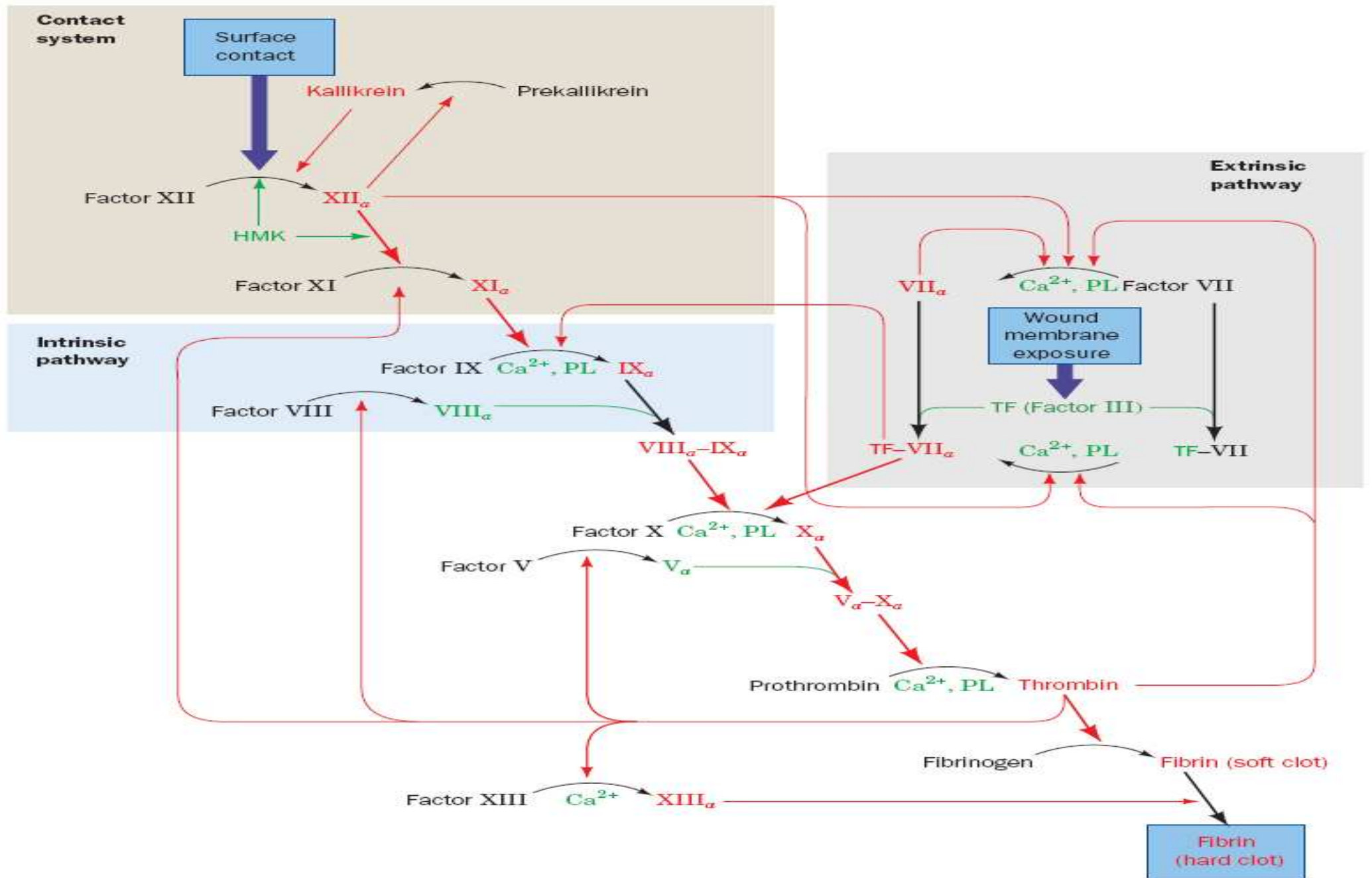
- Homeostaza – malá poranění
krevní destičky
- Krevní sraženina – velká poranění
systém krevní
srážlivosti

System krevní srážlivosti

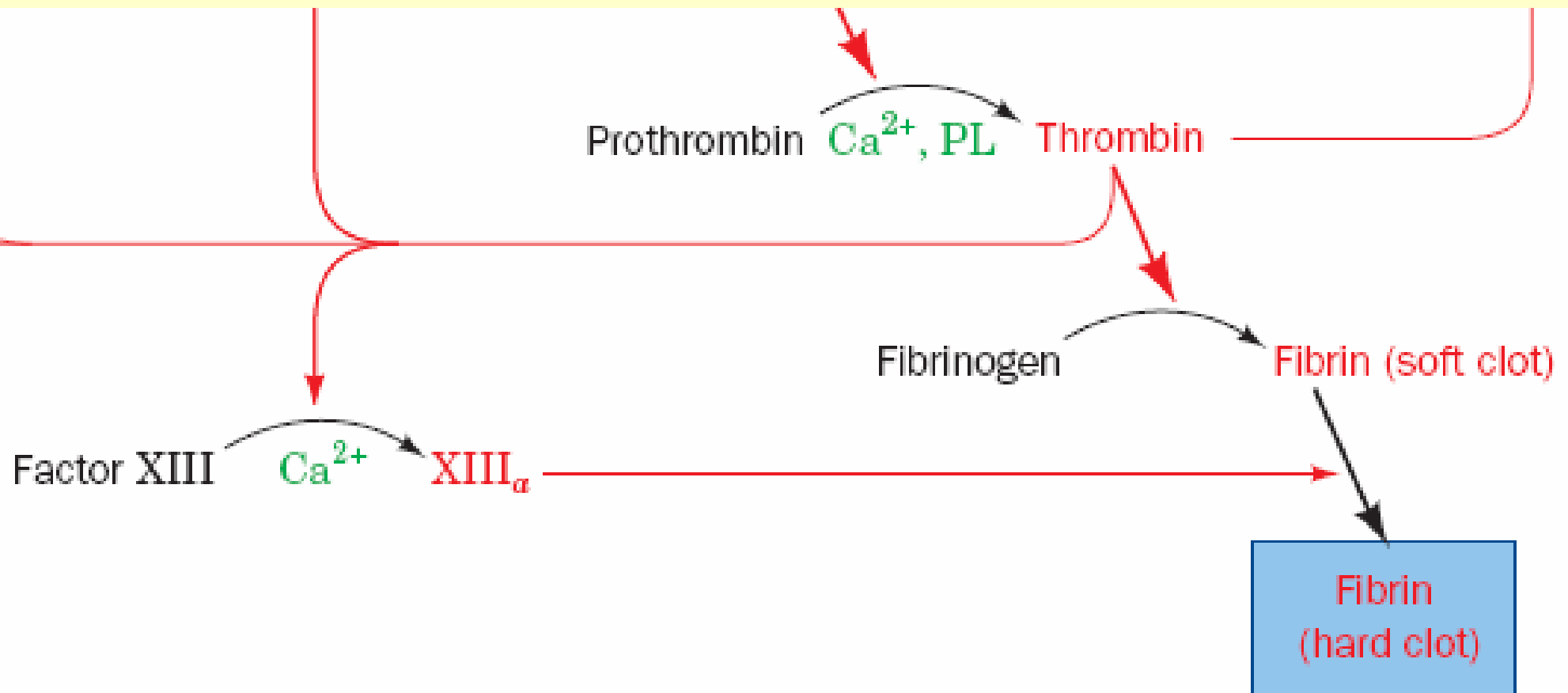
TABLE 35-1 Human Blood Coagulation Factors

Factor Number	Common Name	Molecular Mass (kD)
I	Fibrinogen	340
II	Prothrombin	66
III	Tissue factor <i>or</i> thromboplastin	30
IV	Ca ²⁺	
V ^a	Proaccelerin	249
VII	Proconvertin	46
VIII	Antihemophilic factor	265
IX	Christmas factor	47
X	Stuart factor	50
XI	Plasma thromboplastin antecedent (PTA)	136
XII	Hageman factor	67
XIII	Fibrin-stabilizing factor (FSF)	301
	Prekallikrein	69
	High molecular weight kininogen (HMK)	70

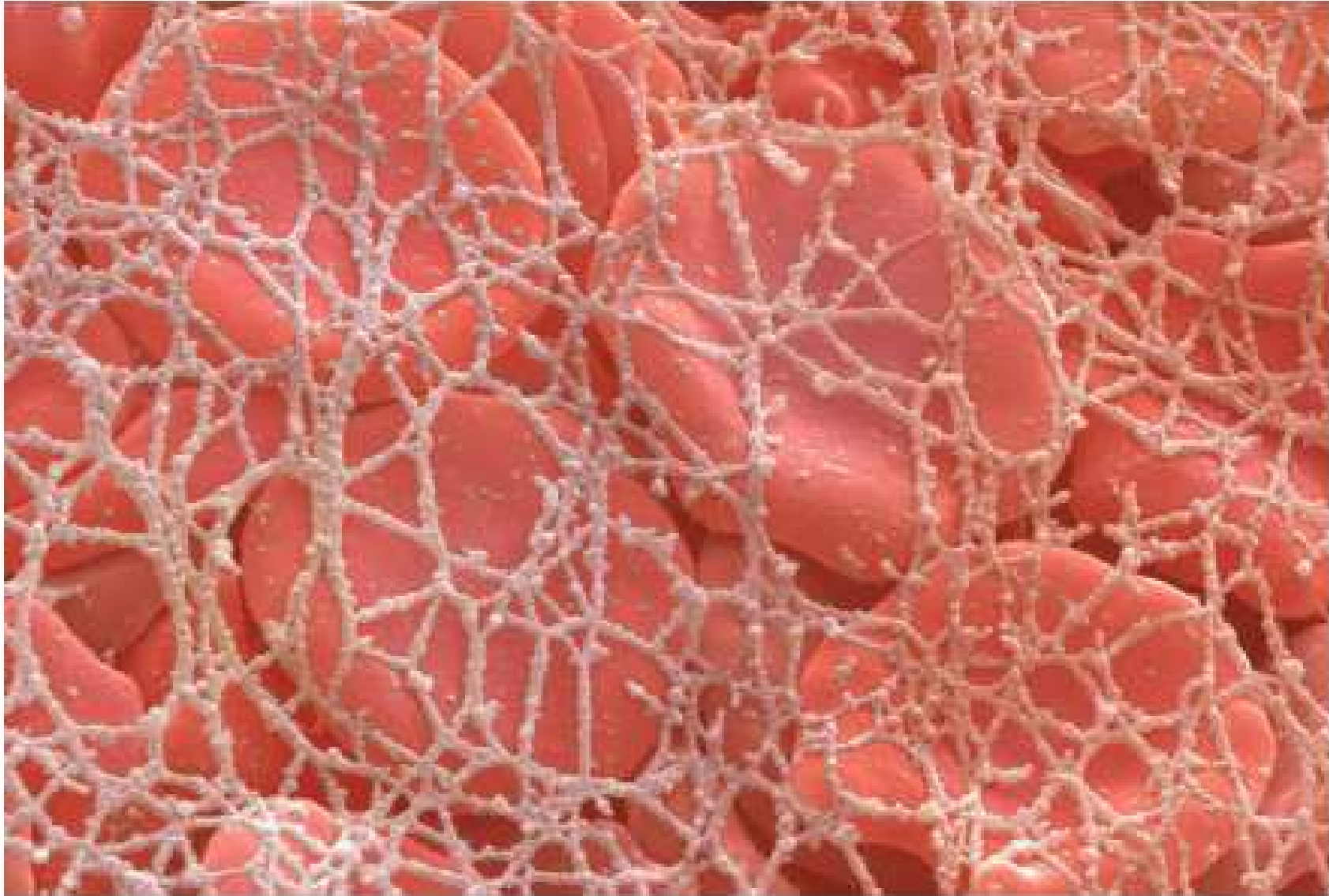
System krevní srážlivosti



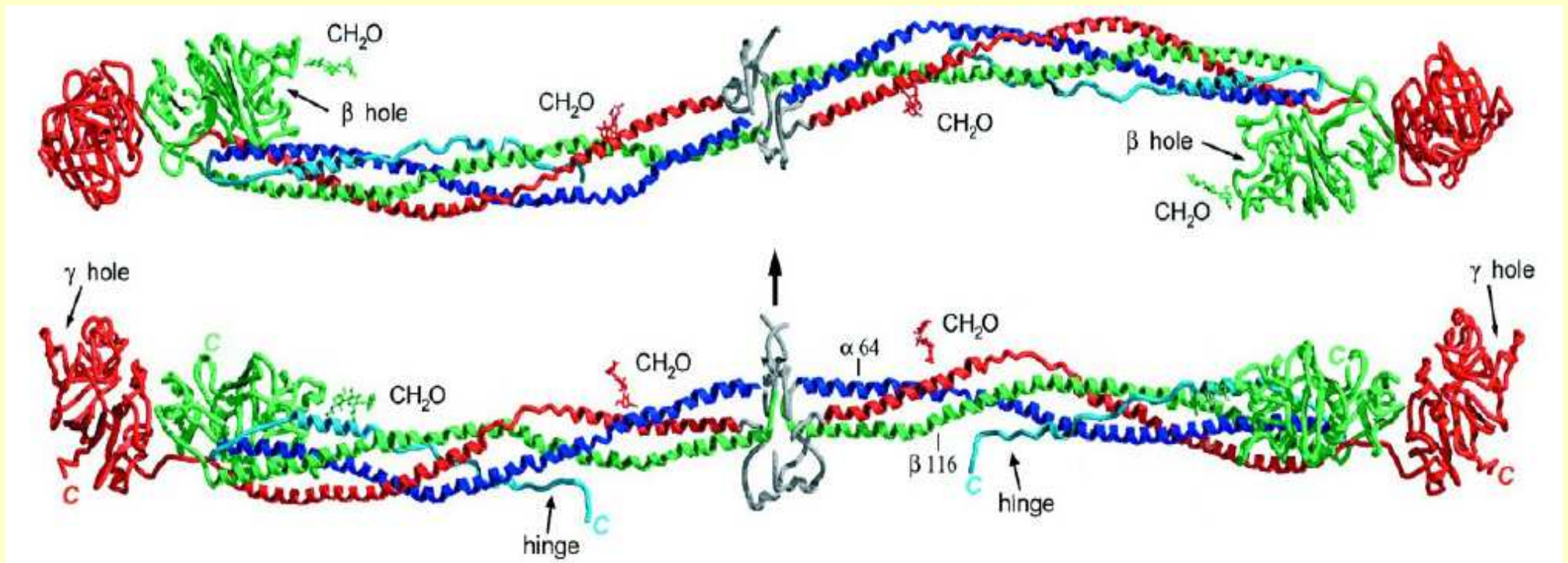
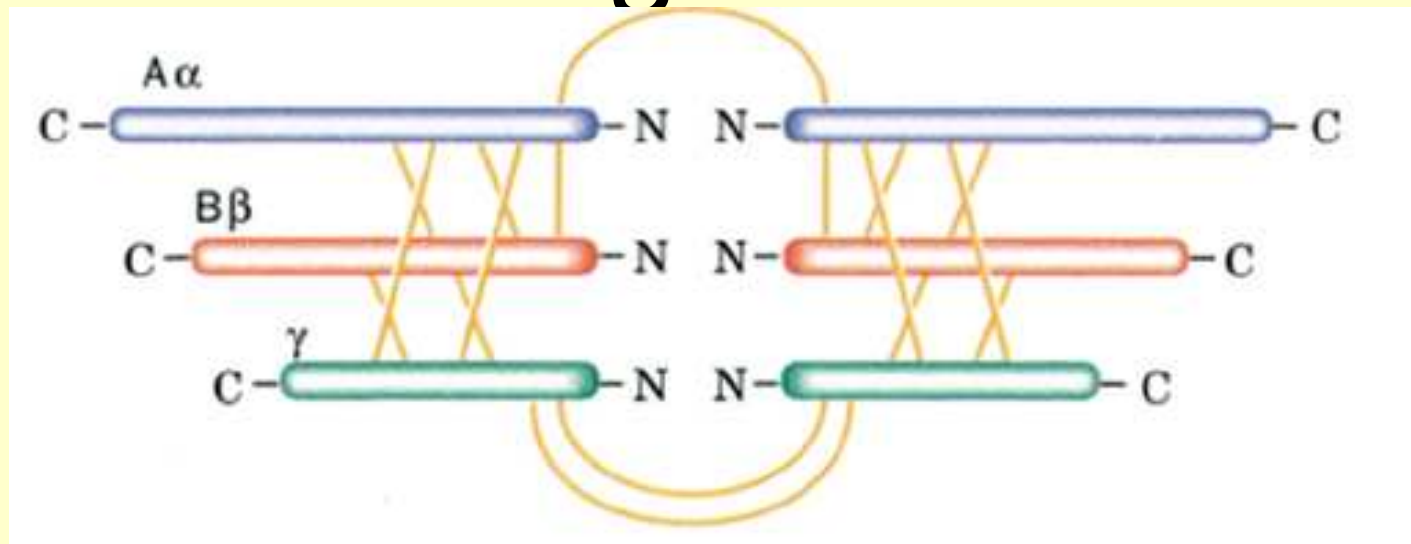
Fibrinogen x fibrin



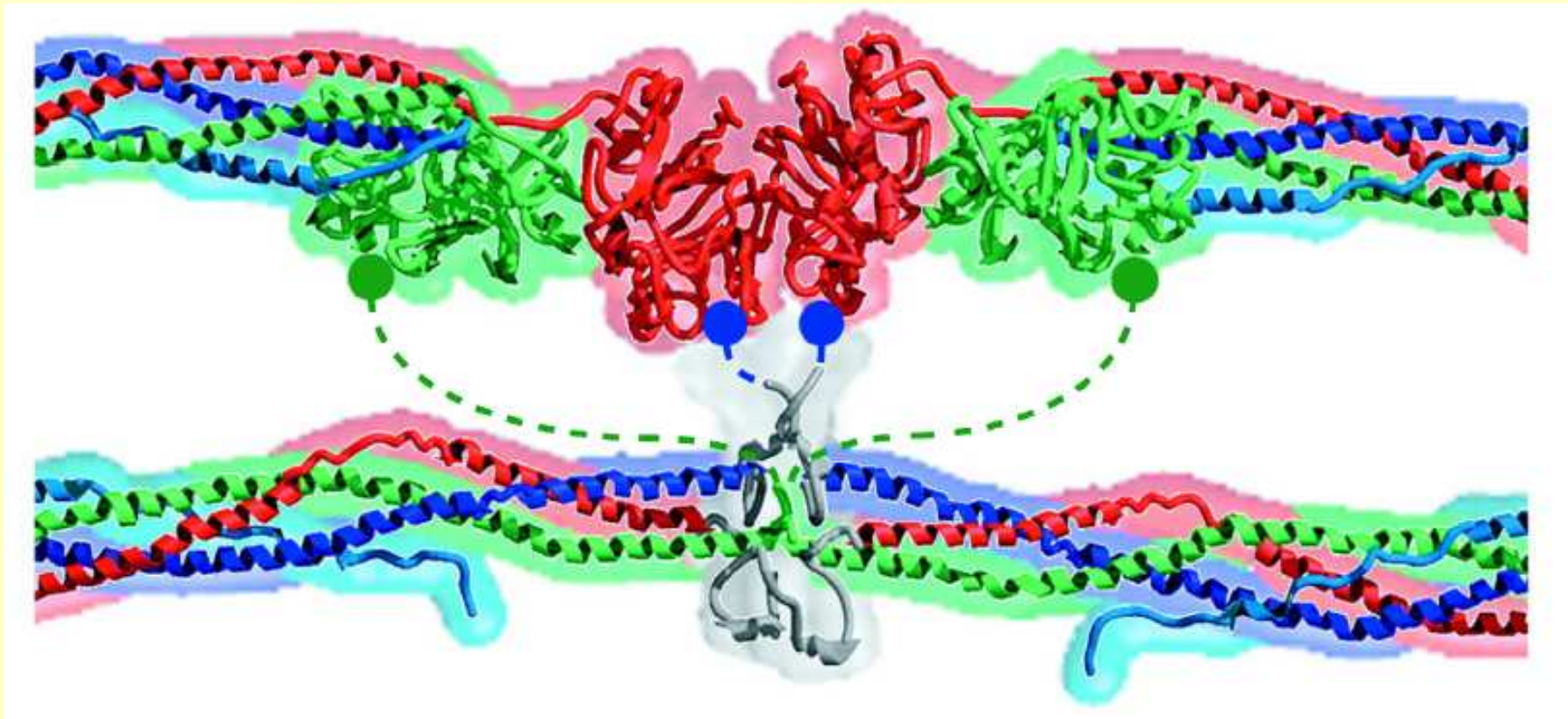
Fibrinogen x fibrin



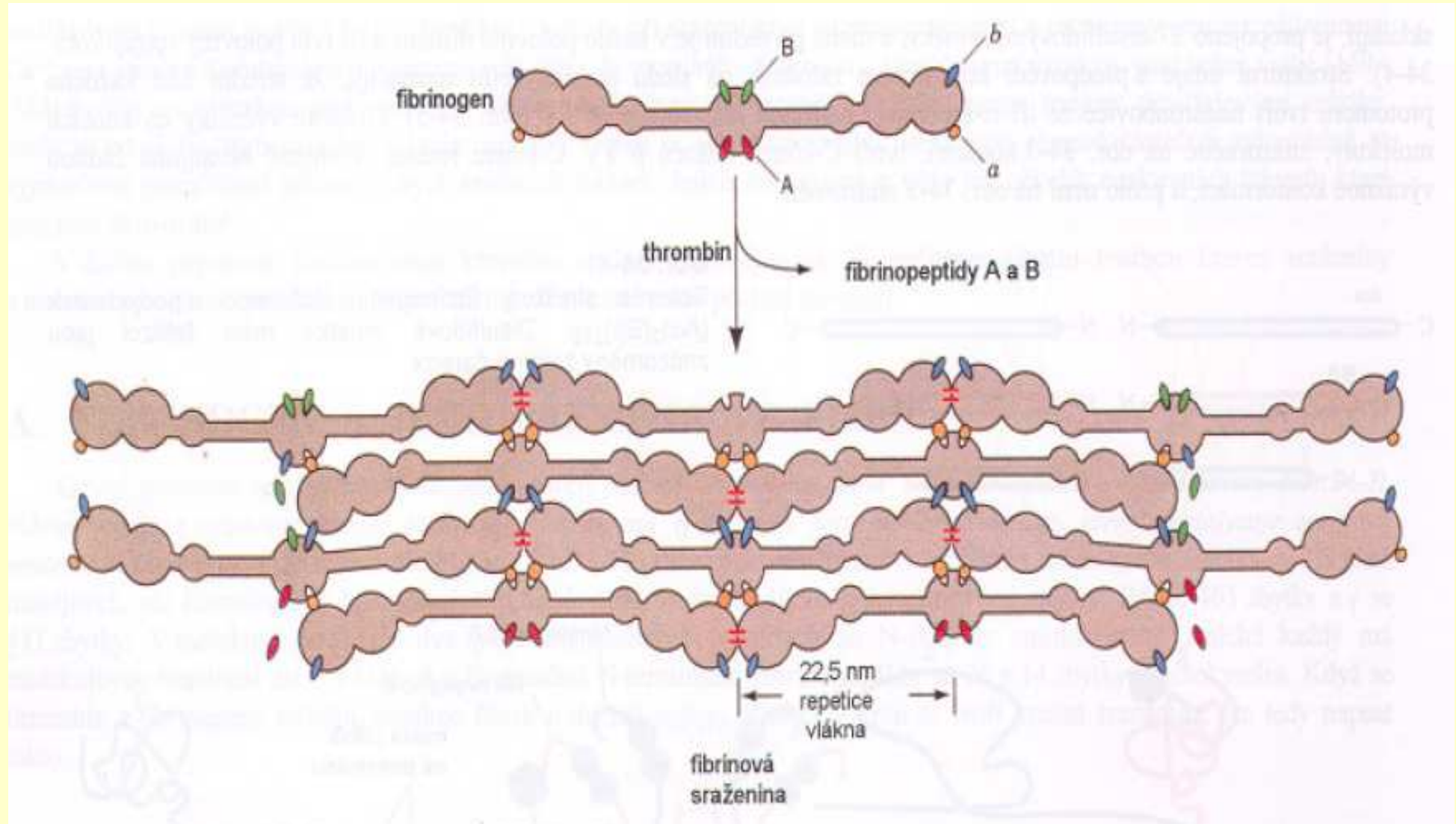
Fibrinogen x fibrin



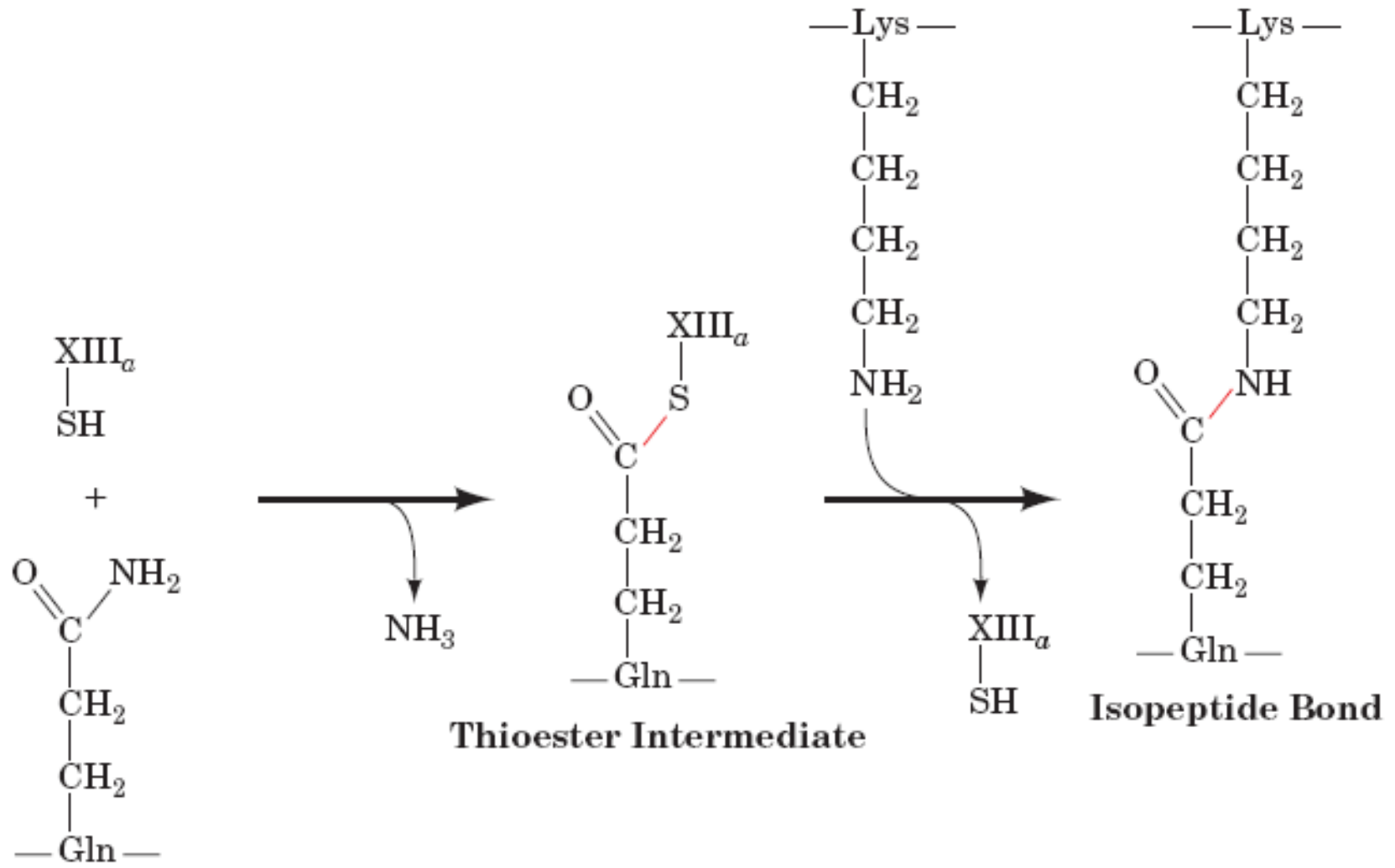
Fibrinogen x fibrin



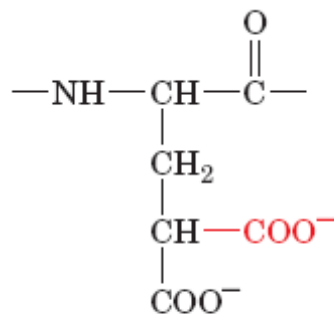
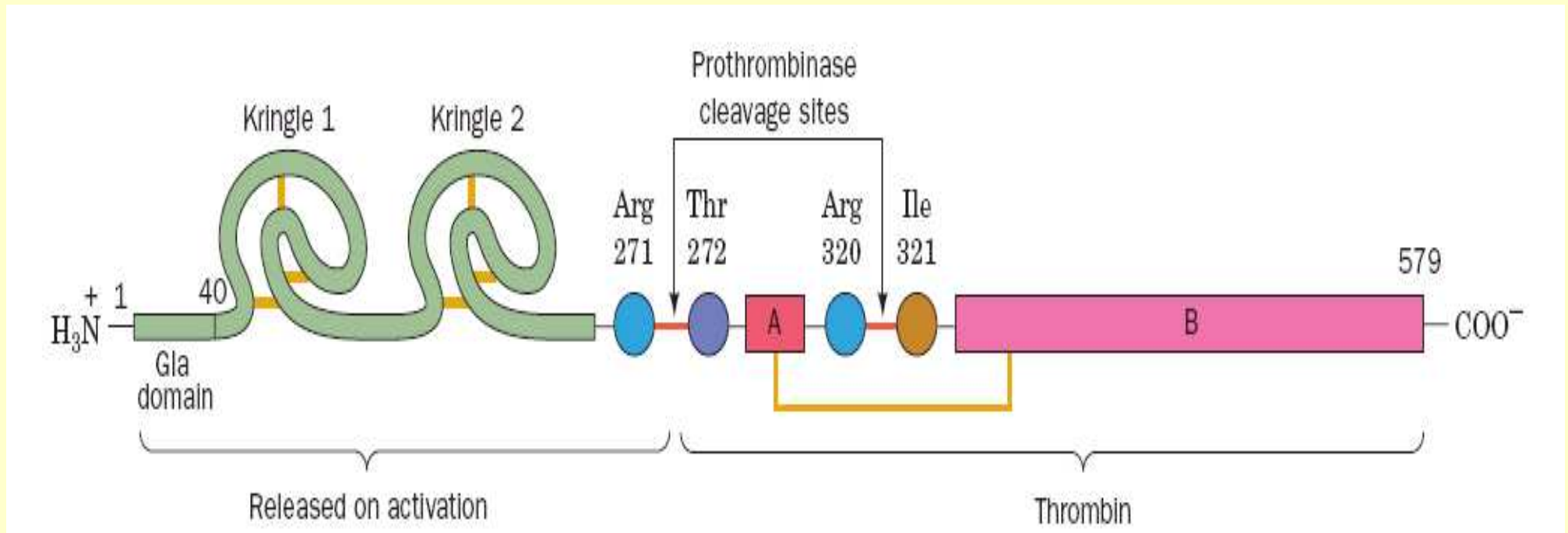
Fibrinogen x fibrin



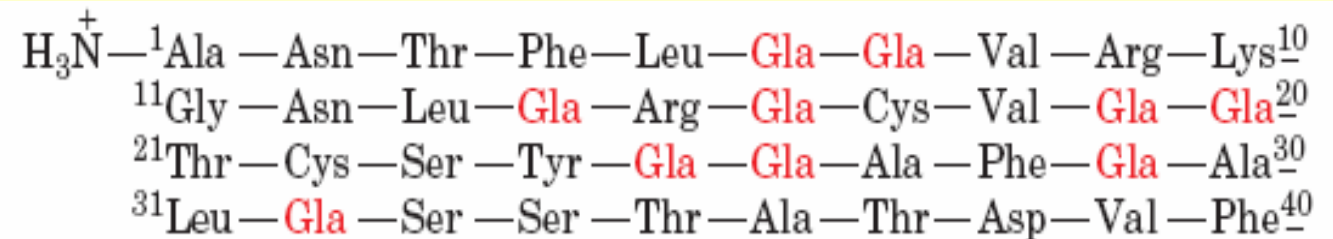
Fibrin(soft) x fibrin(hard)



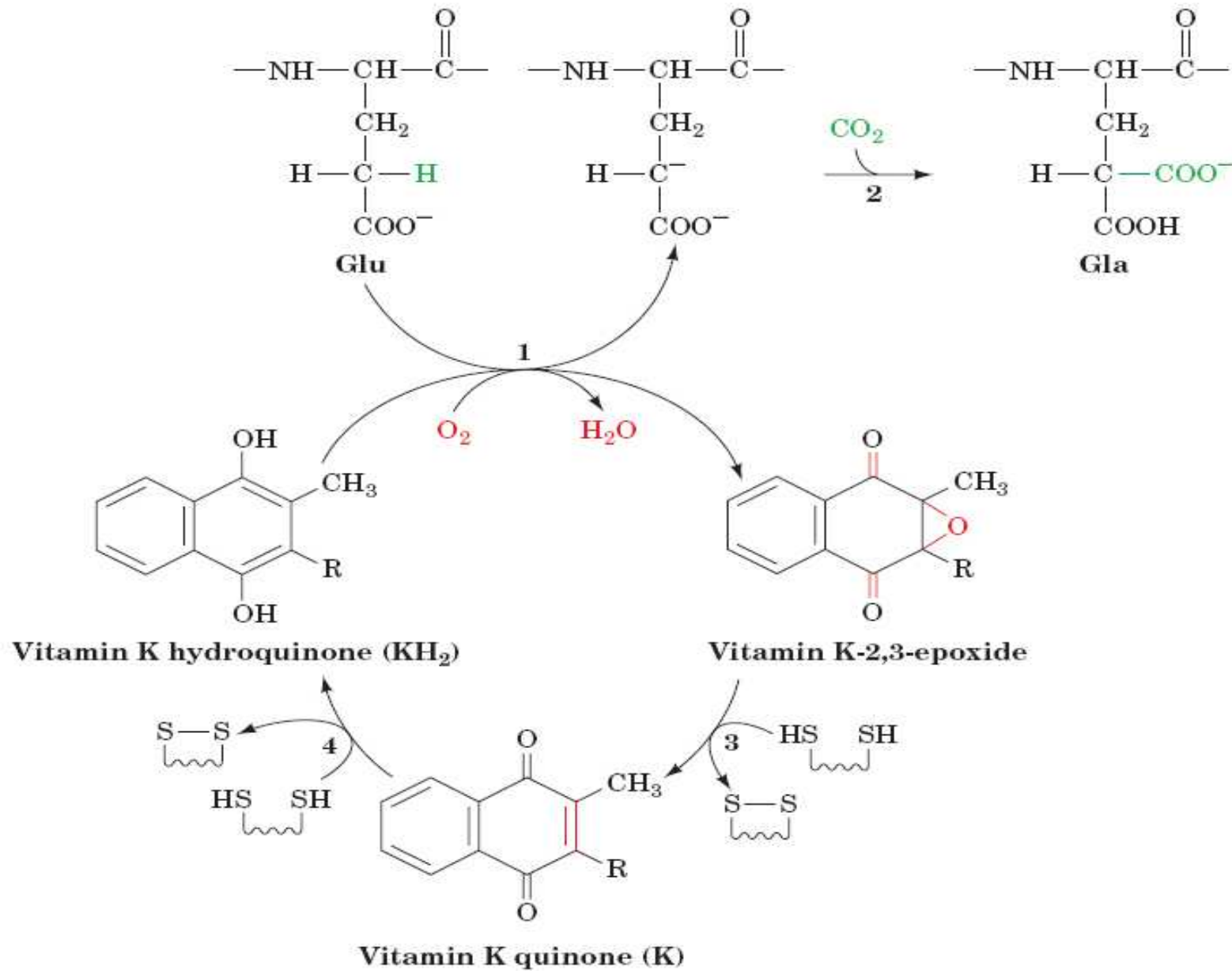
Protrombin x trombin



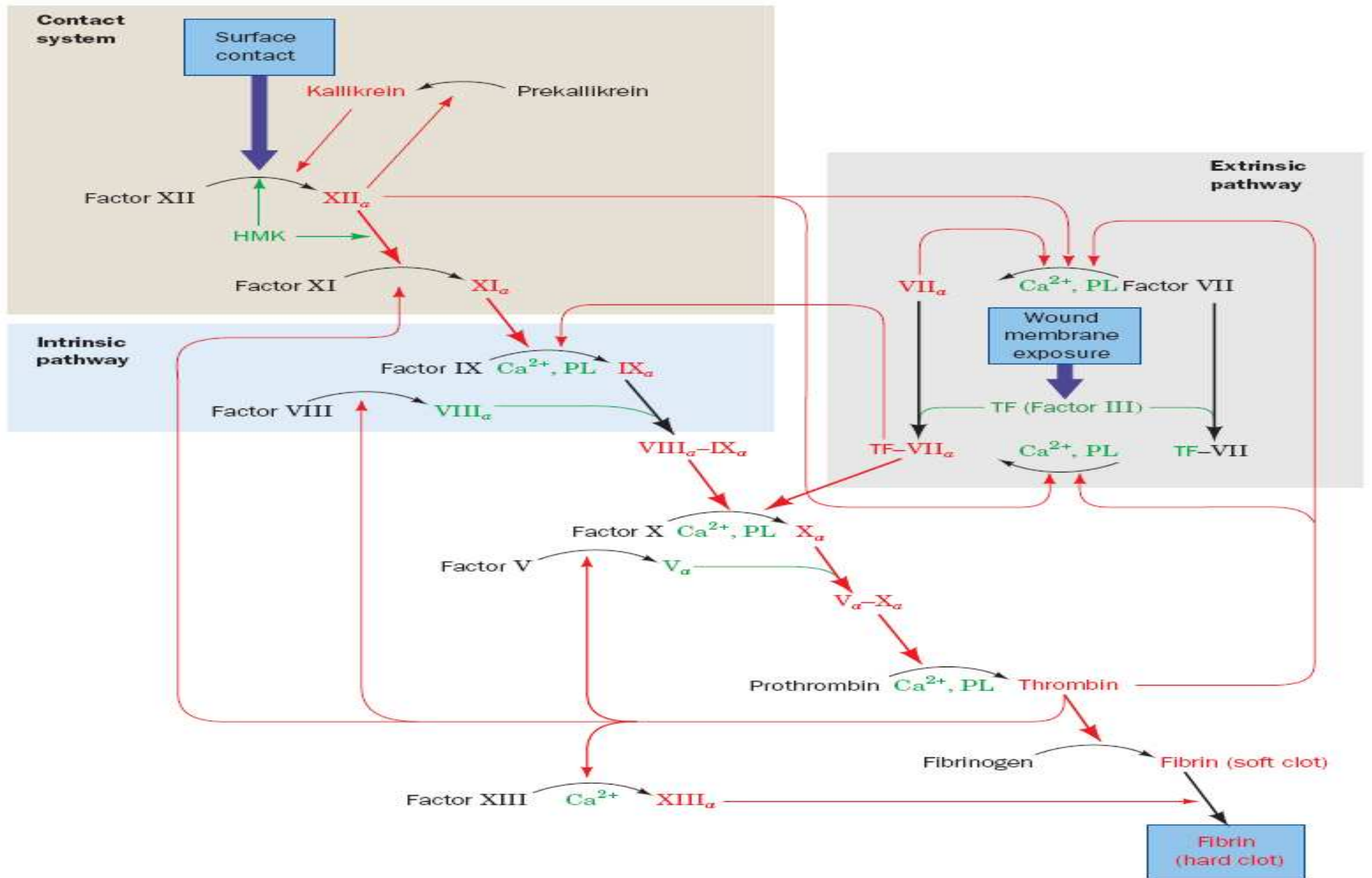
γ-Carboxyglutamate (Gla)



Protrombin x trombin



System krevní srážlivosti

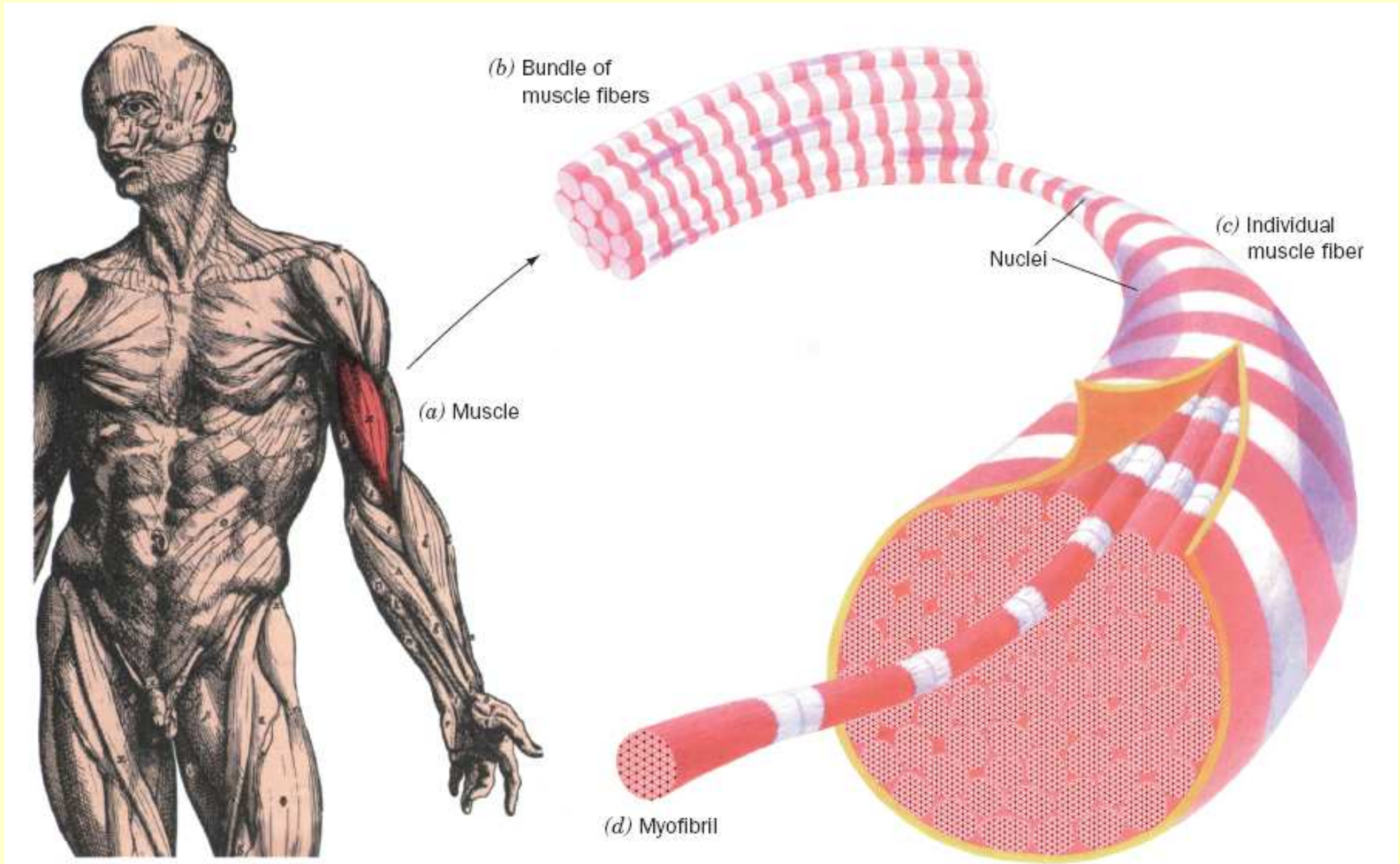


Svalová práce

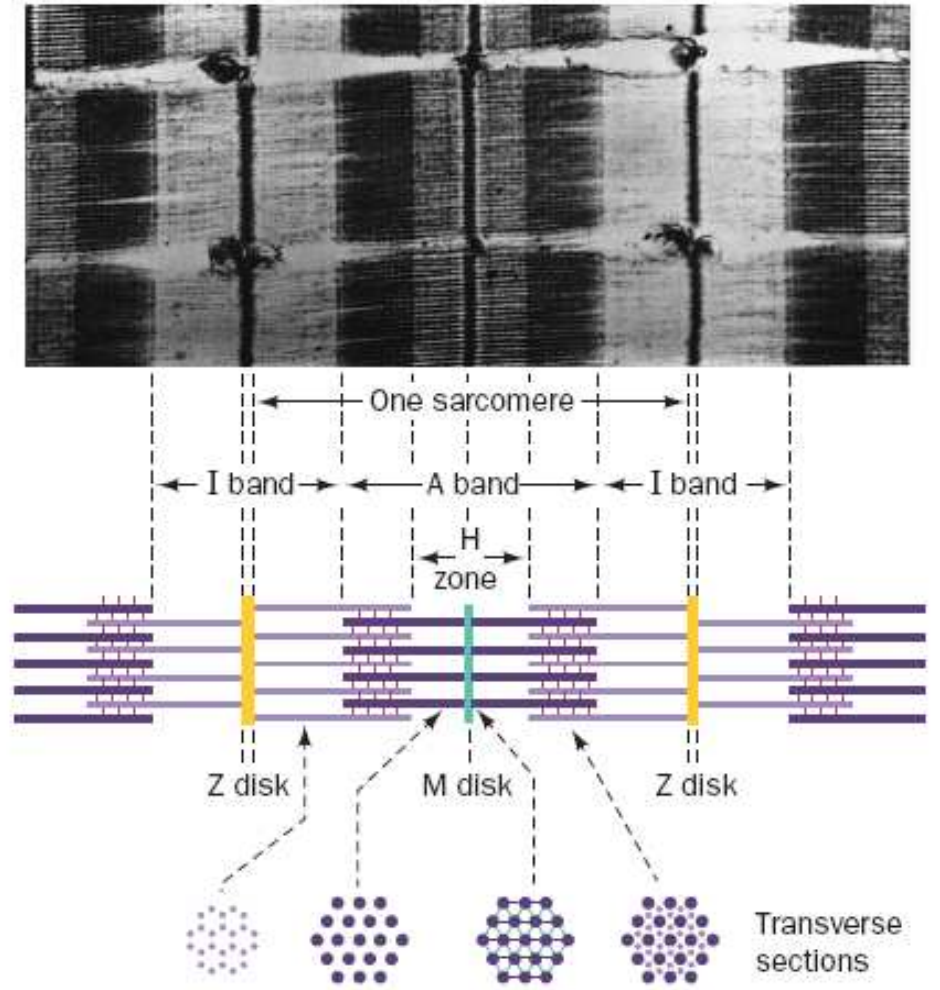
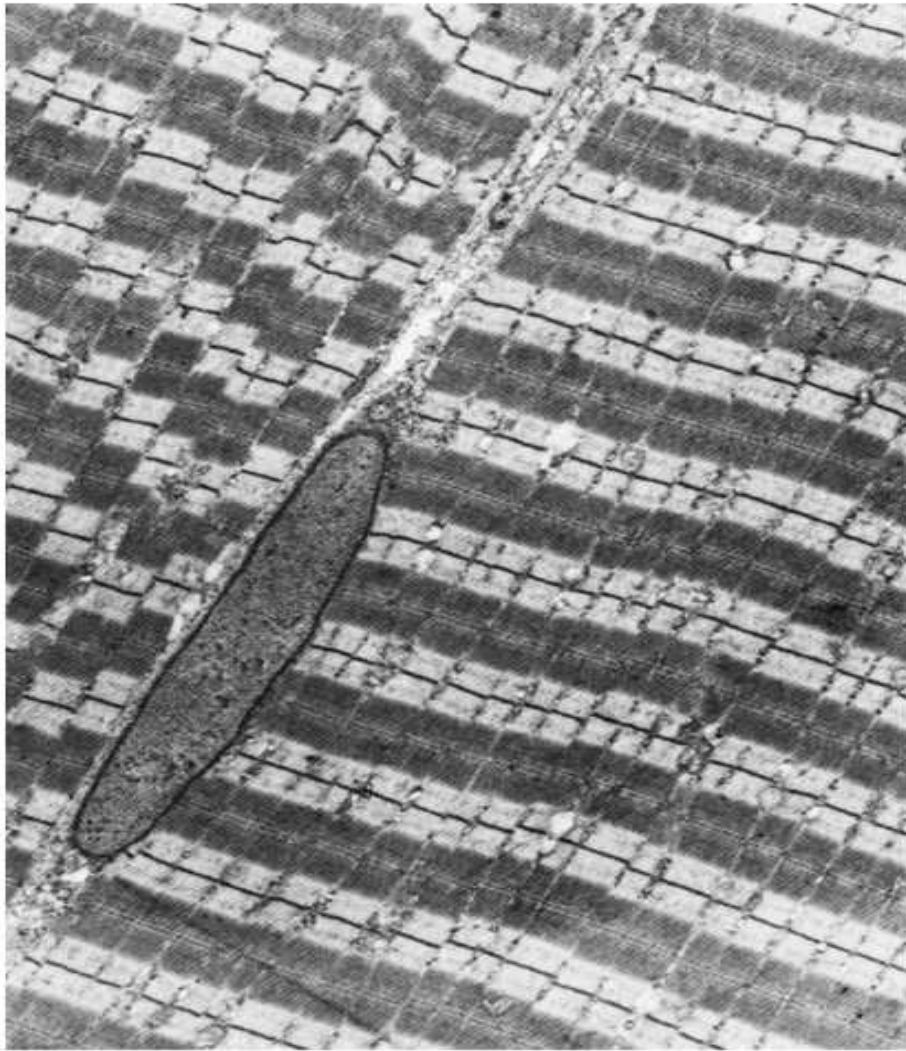
Svalová práce

- Příčně pruhované kosterní svalstvo
- Hladké srdeční svalstvo

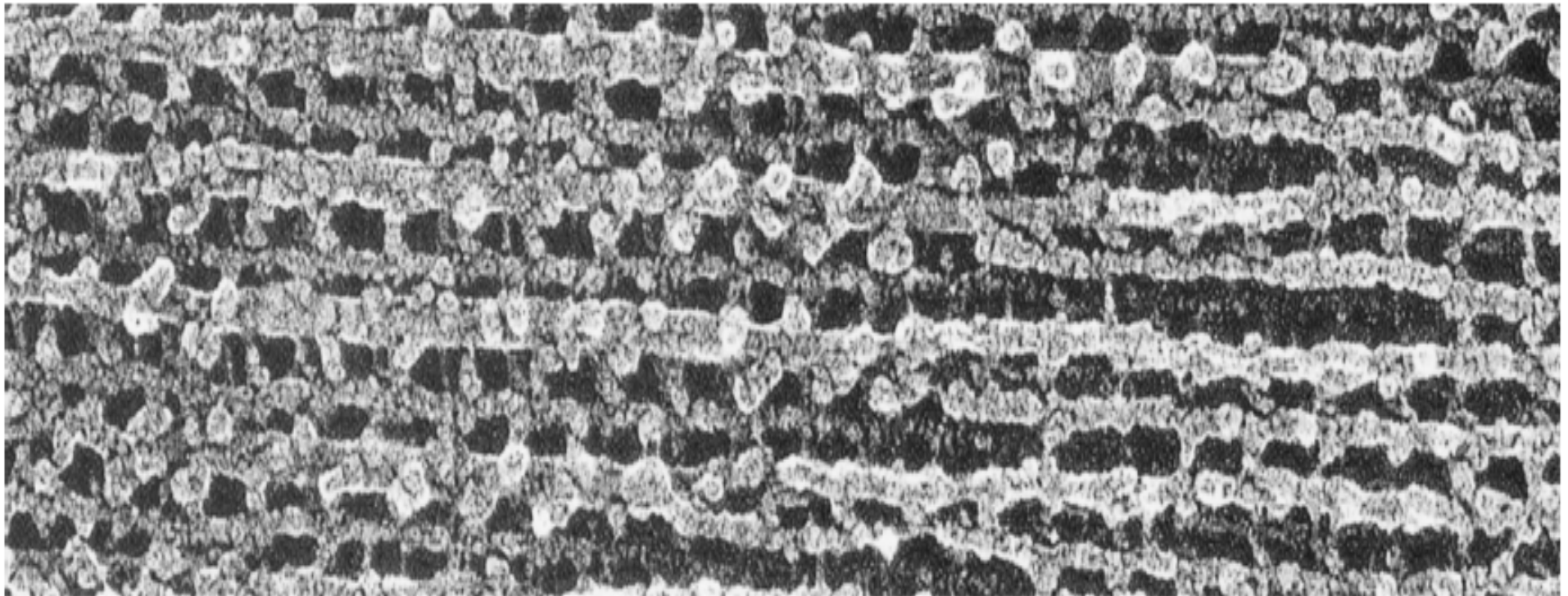
Příčně pruhovaný sval



Sarkomera

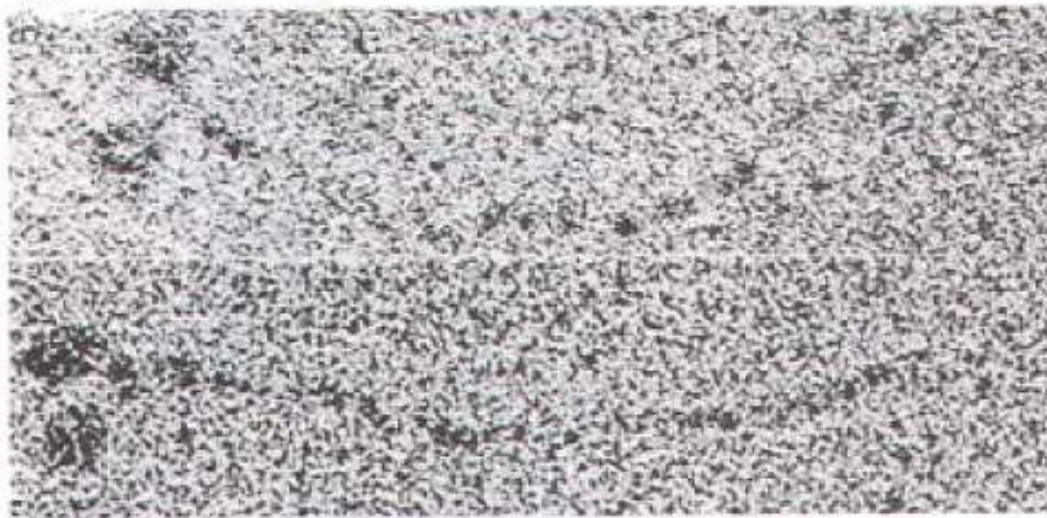


Sarkomera

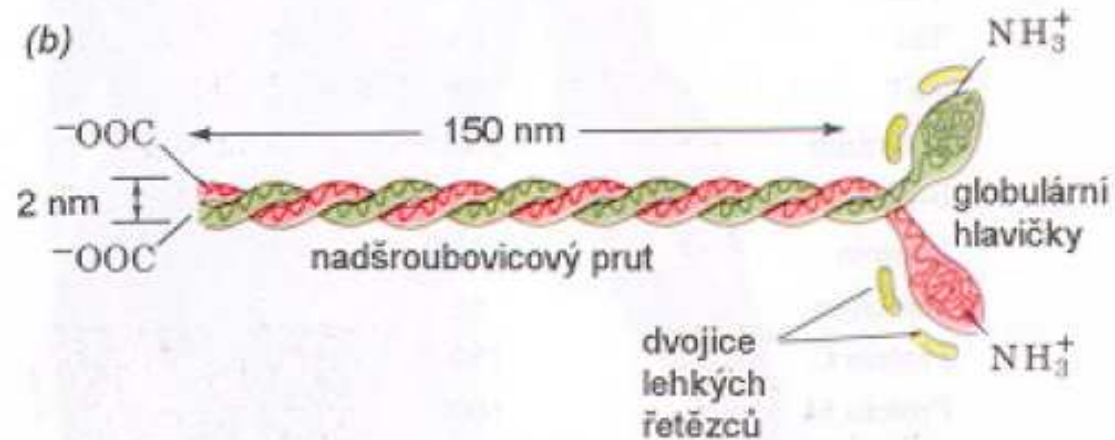


Myosin

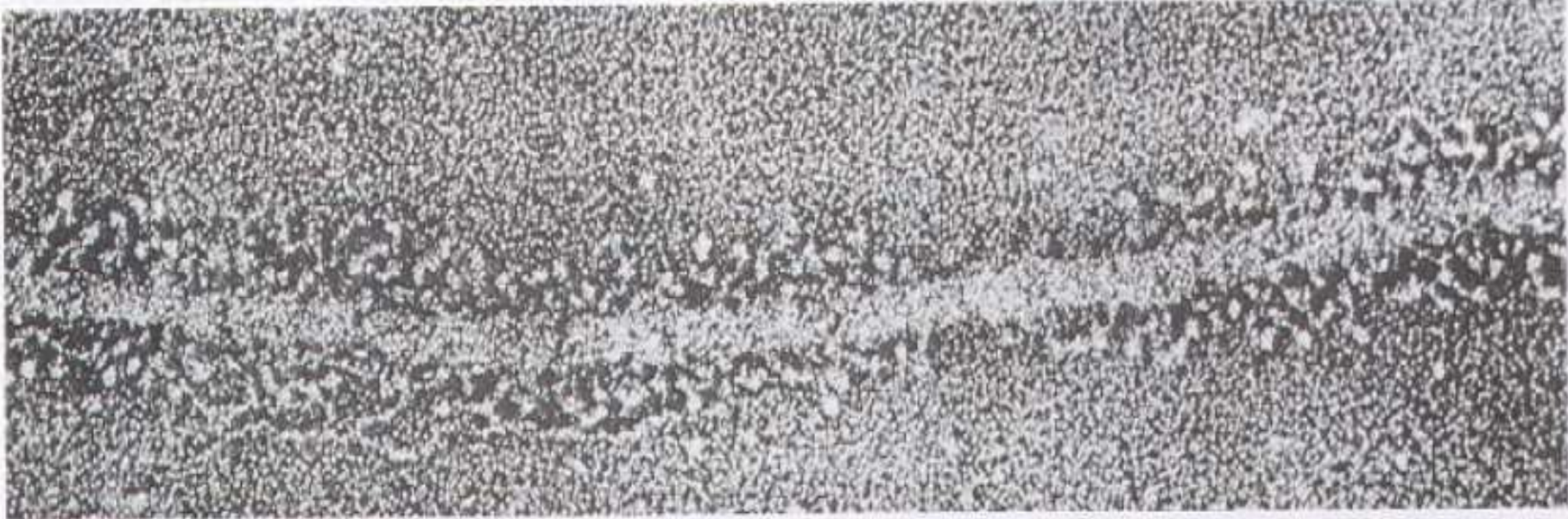
(a)



(b)



Myosin

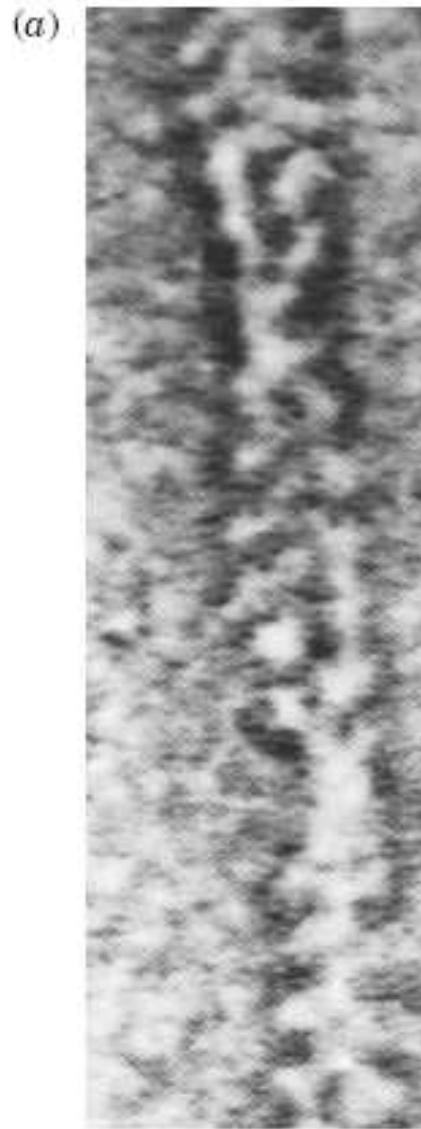


(a)

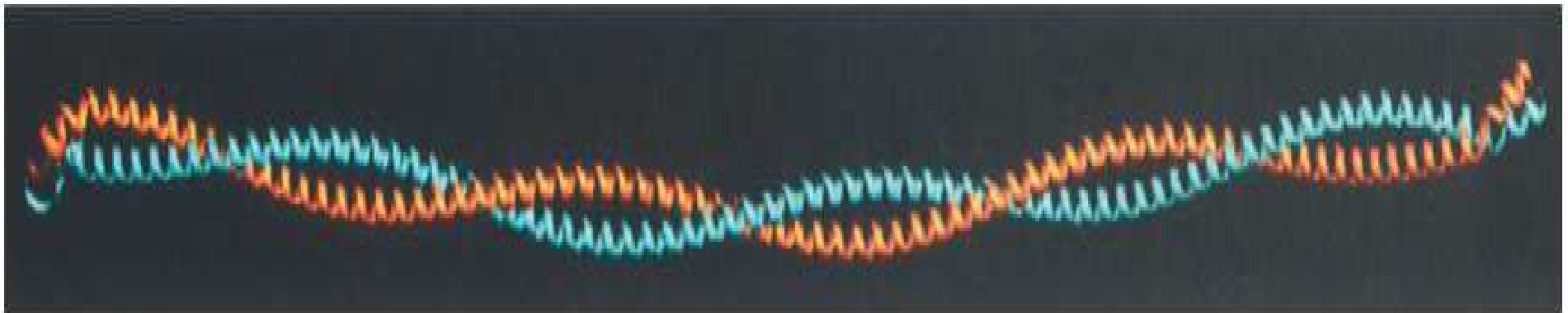


(b)

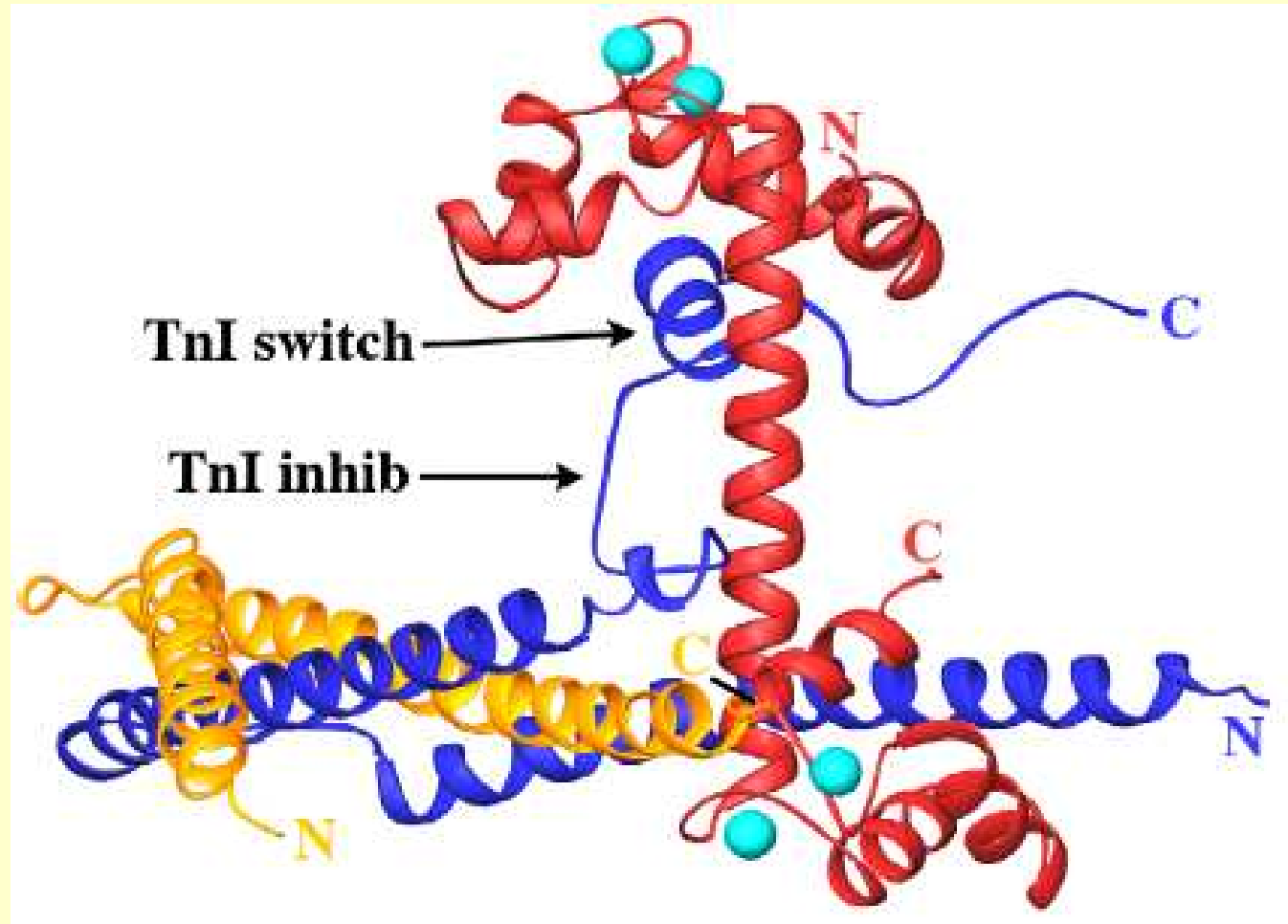
Aktin



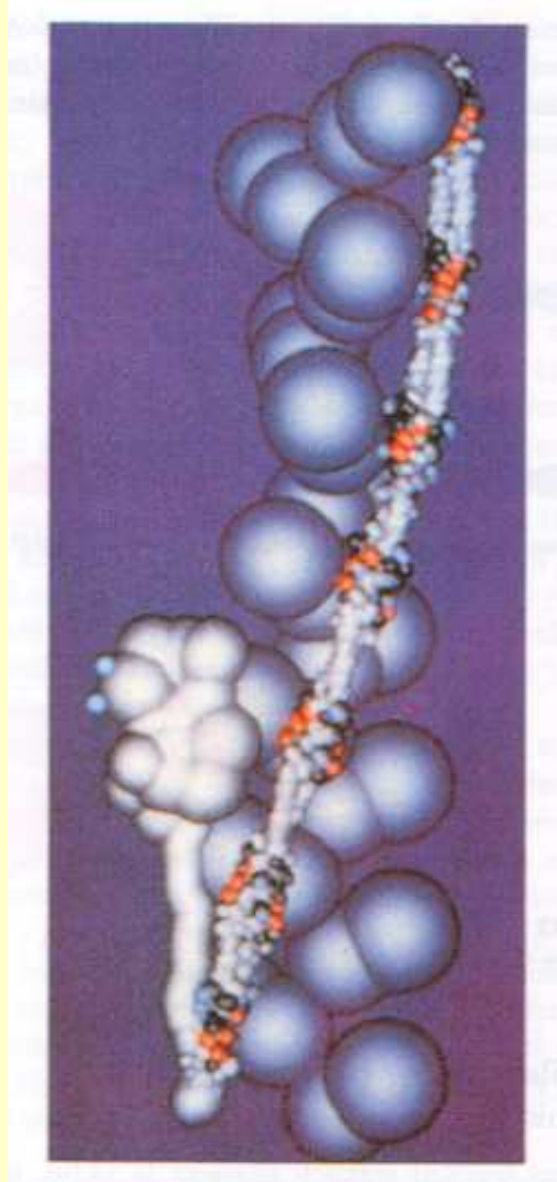
Tropomyosin



Troponin

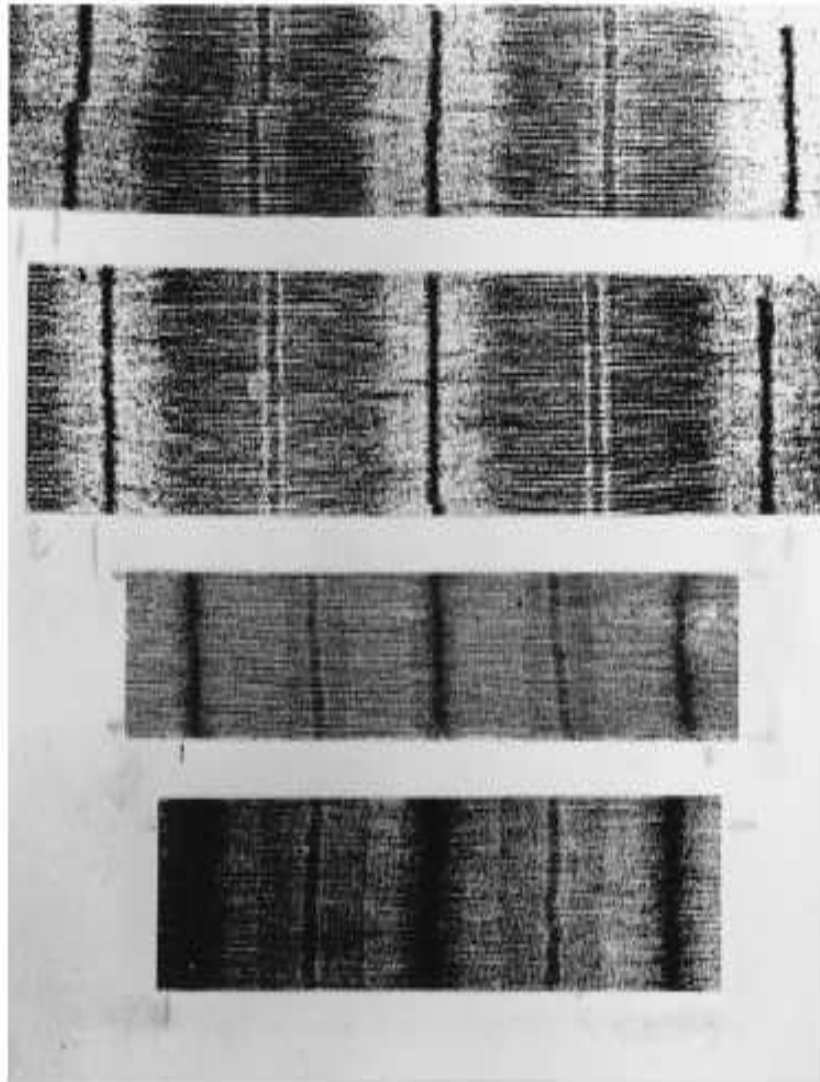


Tenké filamentum

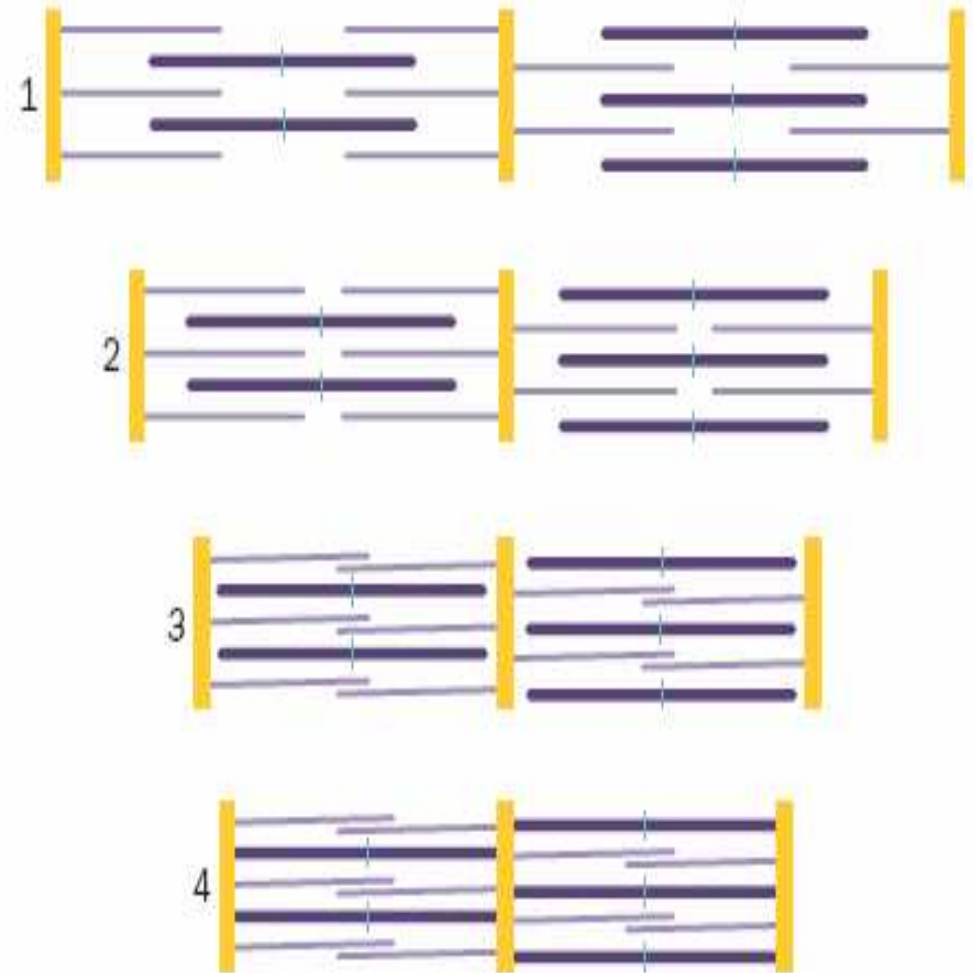


Mechanismus svalové stahu

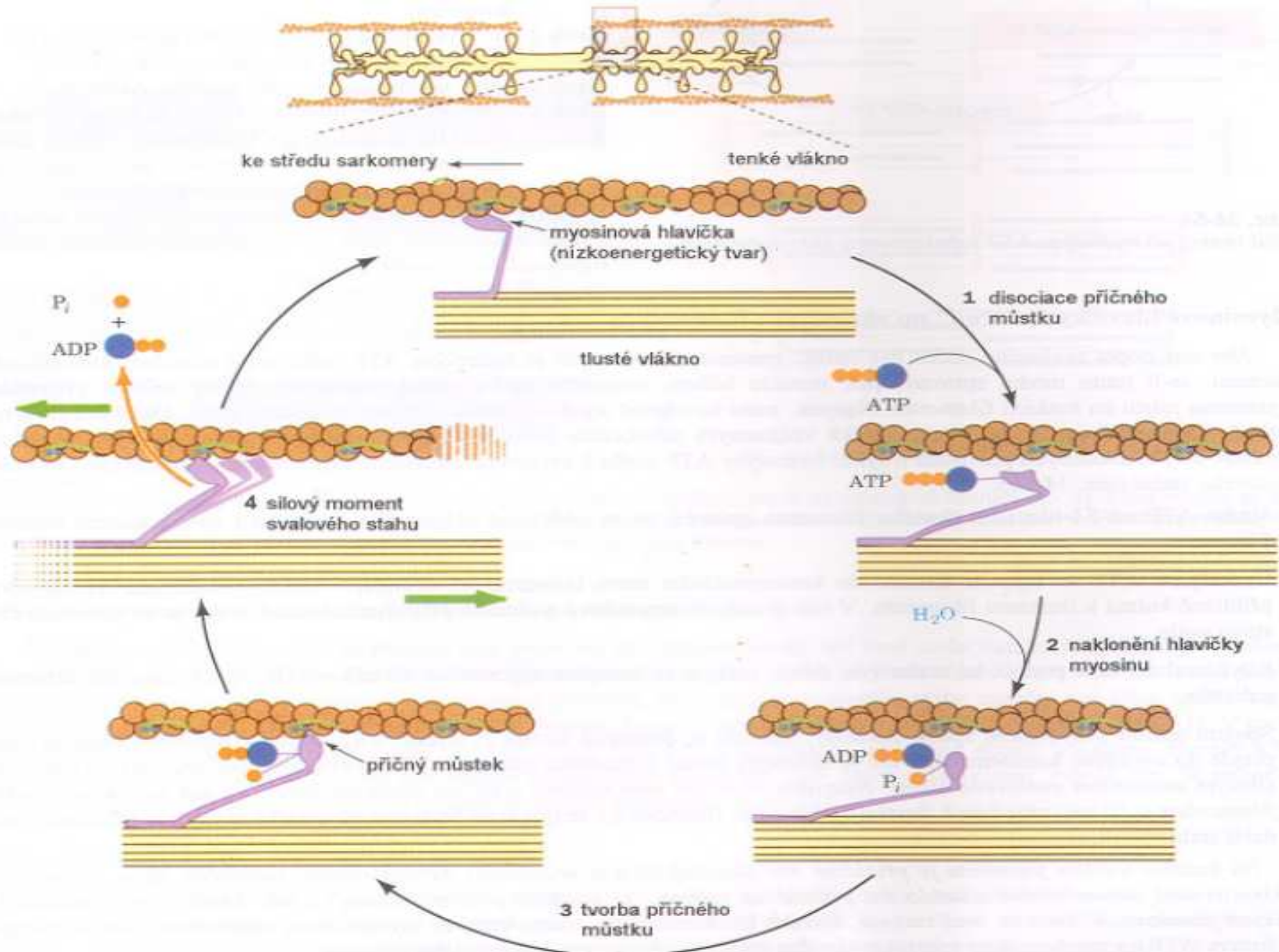
(a)



(b)



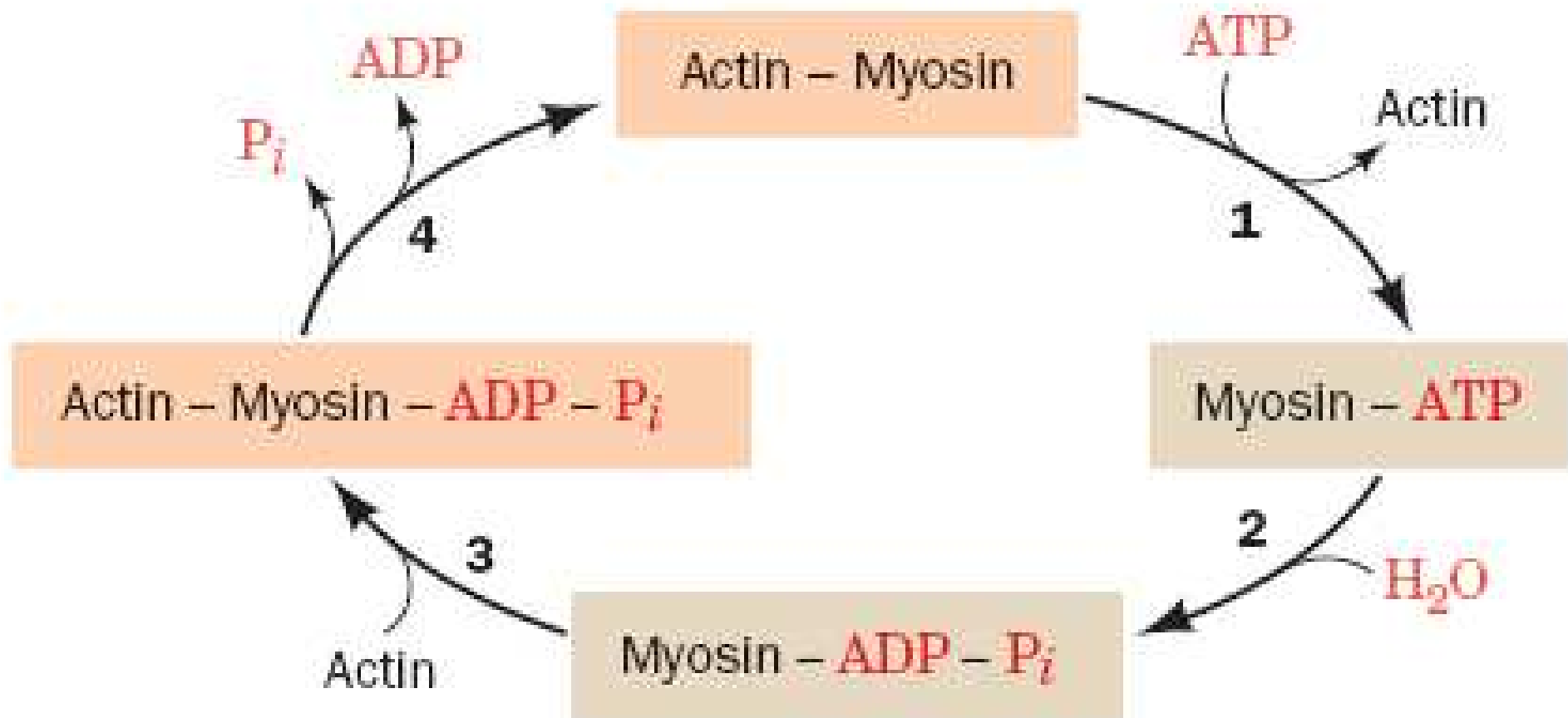
Mechanismus svalové stahu



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