

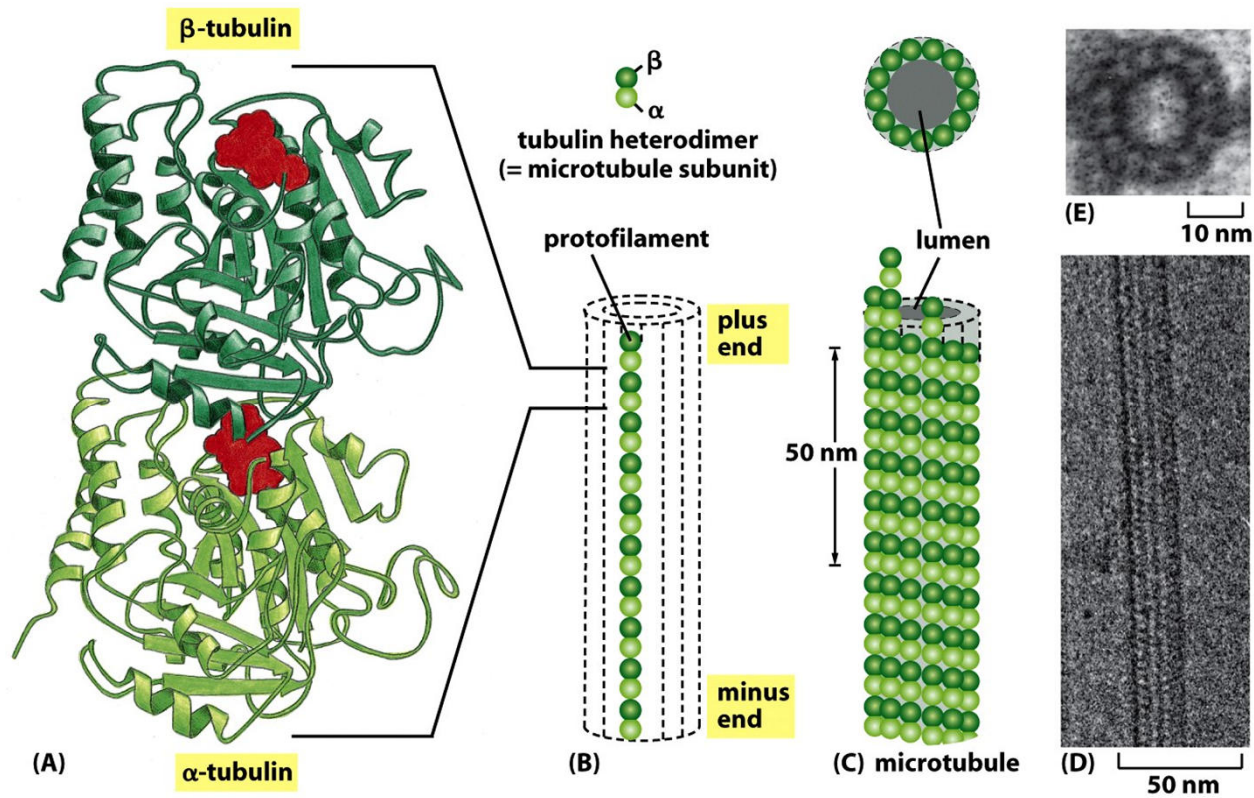
Cytoskelet

výtah z přednášky

RNDr. Karel Královec, Ph.D.



Stavba mikrotubulu



Essential Cell Biology 3/e (© Garland Science 2010)

Dynamika mikrotubulů

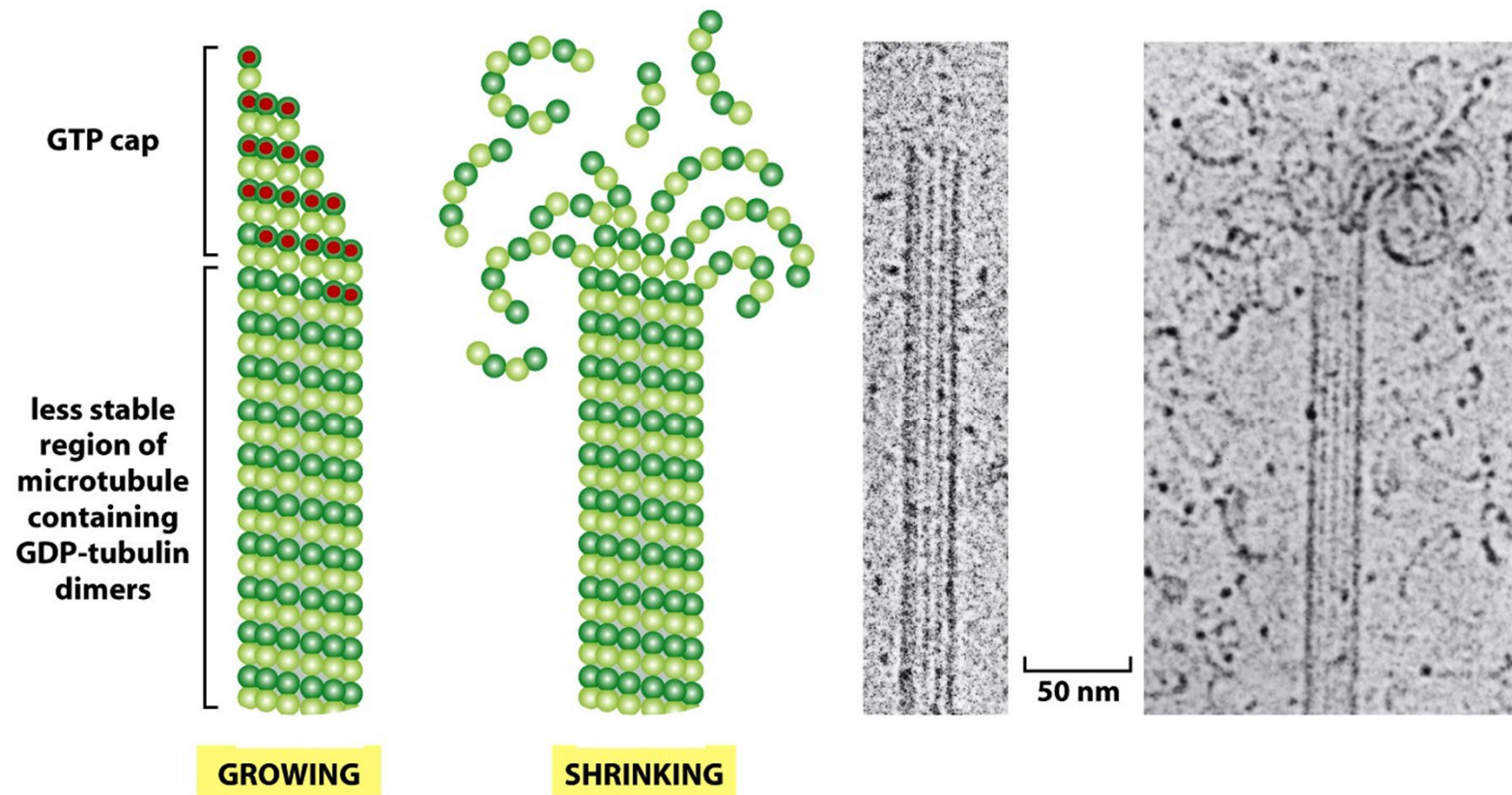


Figure 16-16c Molecular Biology of the Cell 5/e (© Garland Science 2008)

Hydrolýza GTP je používána ke kontrole růstu mikrotubulů

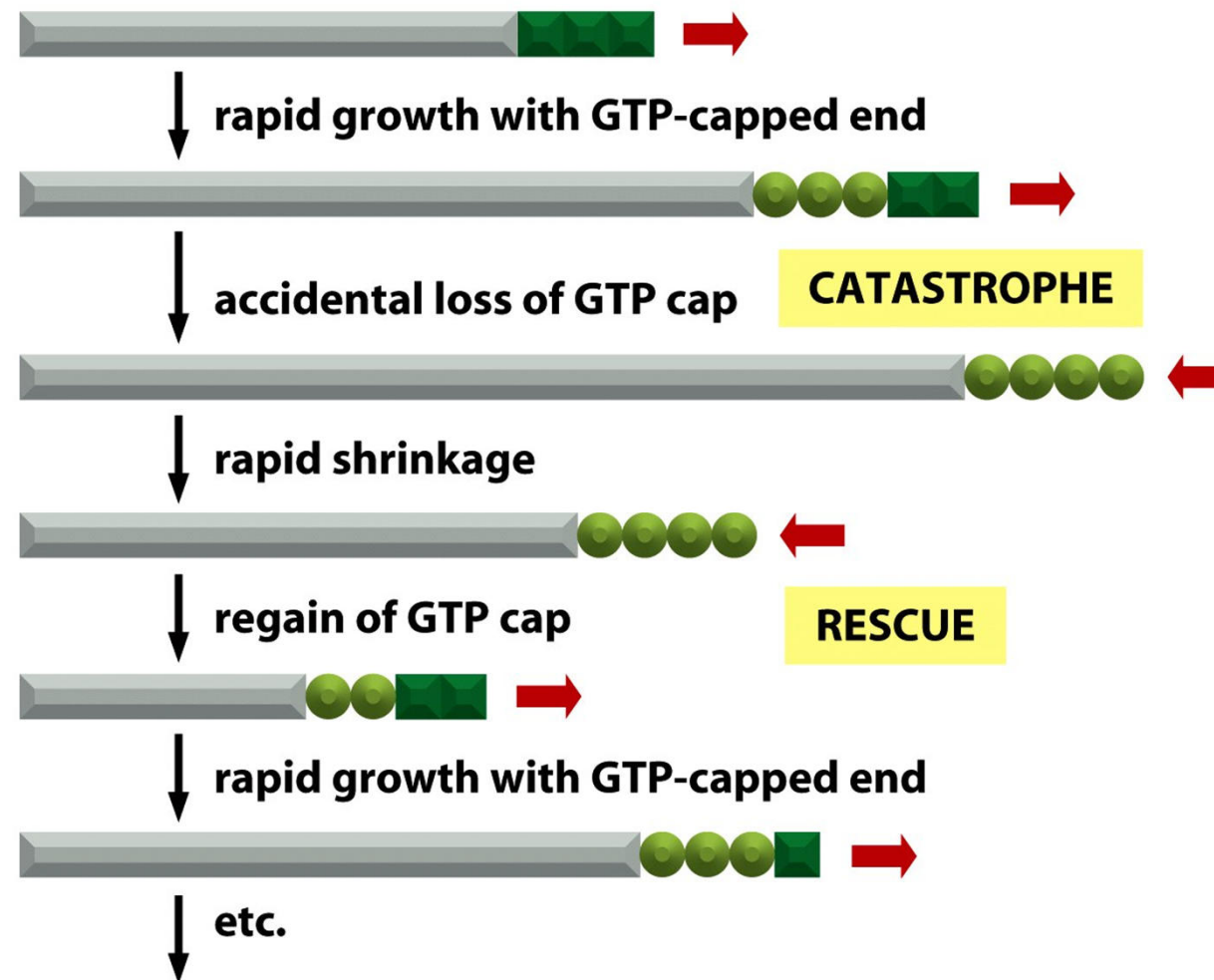


Figure 16-16a Molecular Biology of the Cell 5/e (© Garland Science 2008)

Polymerace tubulinu na centrosomu

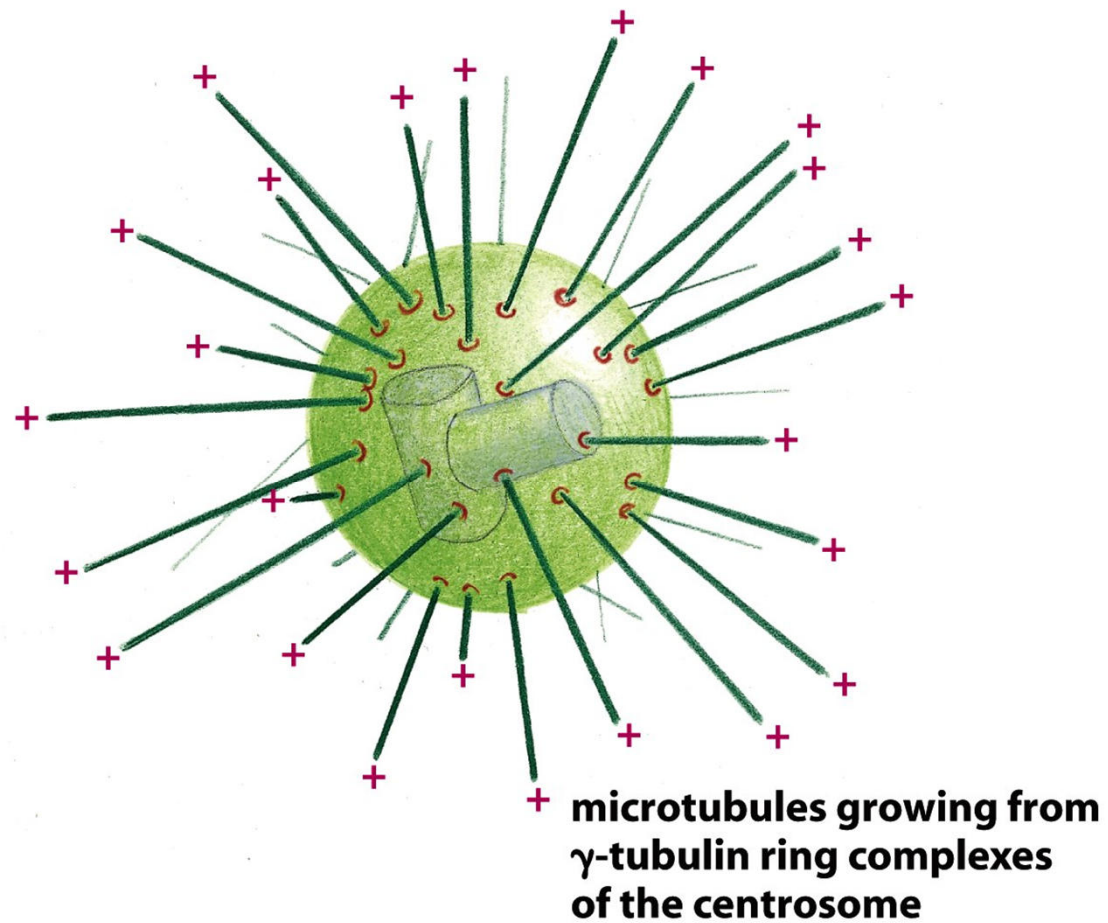


Figure 16-30b Molecular Biology of the Cell 5/e (© Garland Science 2008)

Centriola

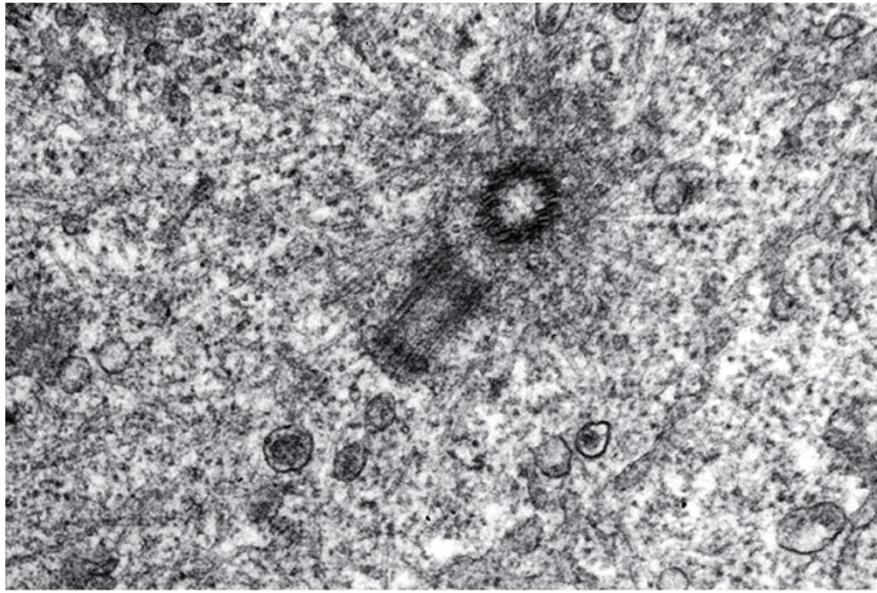


Figure 16-31a Molecular Biology of the Cell 5/e (© Garland Science 2008)

0.5 μm

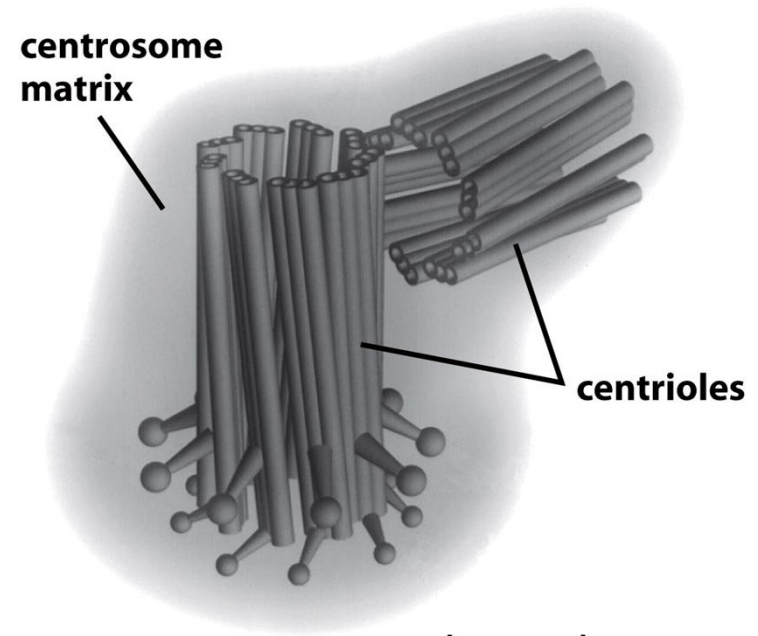


Figure 16-31b Molecular Biology of the Cell 5/e (© Garland Science 2008)

200 nm

Stavba centrioly

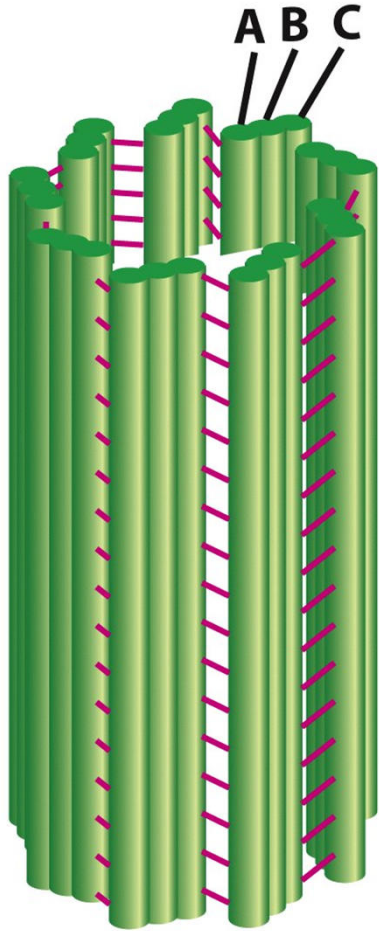


Figure 16-84b Molecular Biology of the Cell 5/e (© Garland Science 2008)

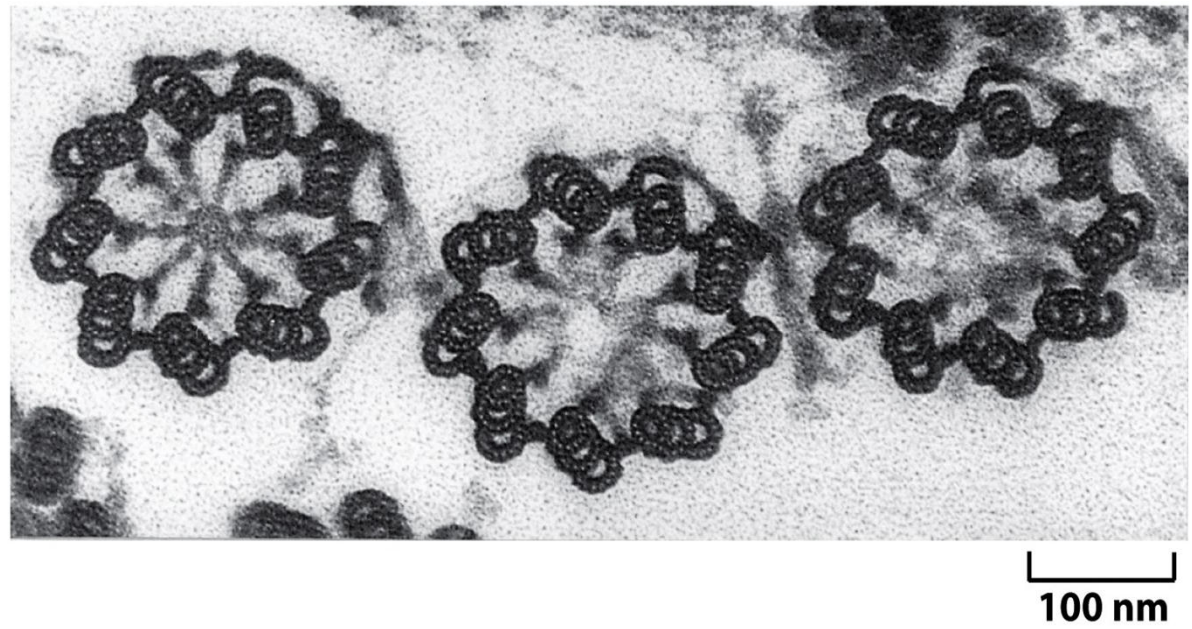


Figure 16-84a Molecular Biology of the Cell 5/e (© Garland Science 2008)

Řasinky a bičíky

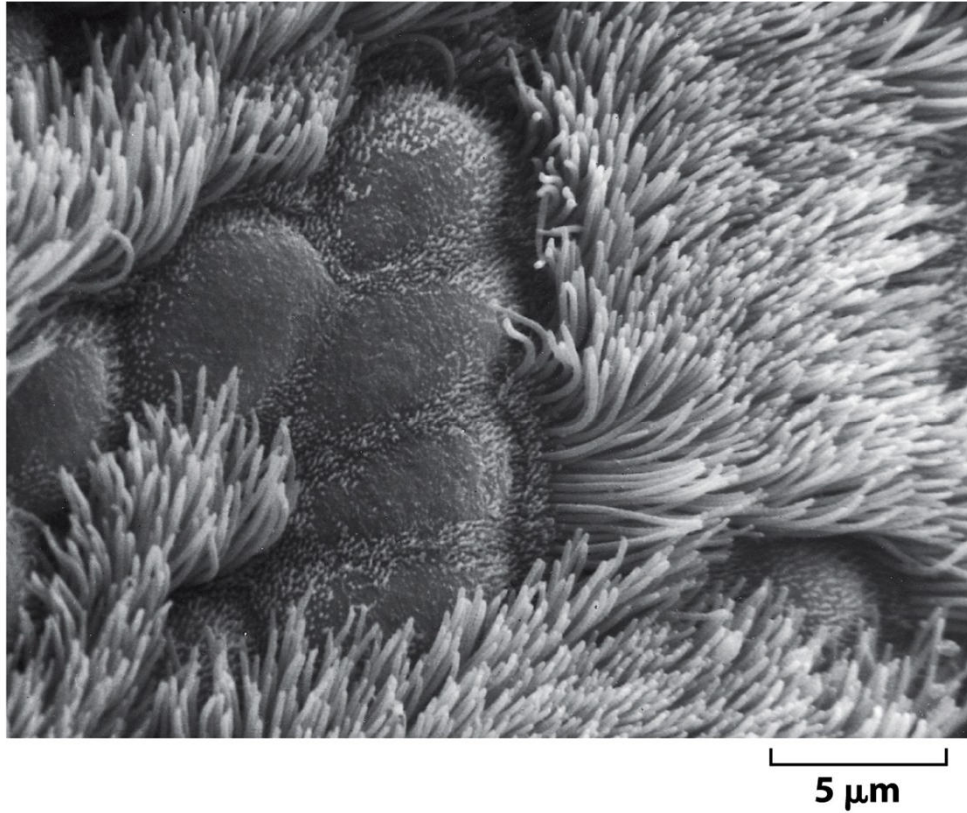


Figure 17-23 Essential Cell Biology 3/e (© Garland Science 2010)

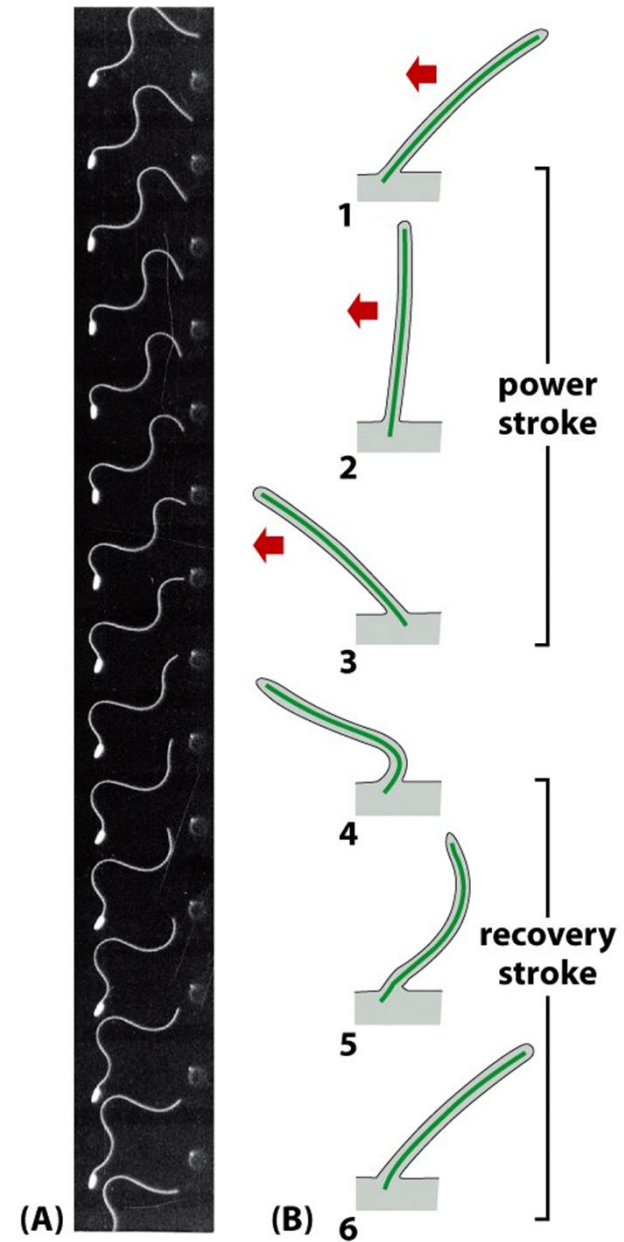
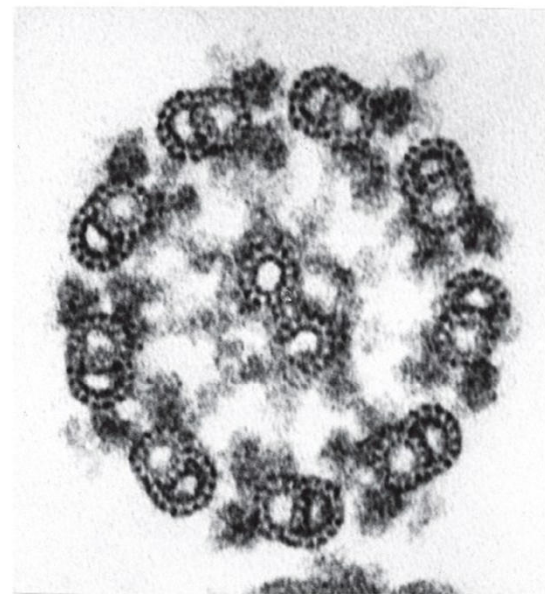


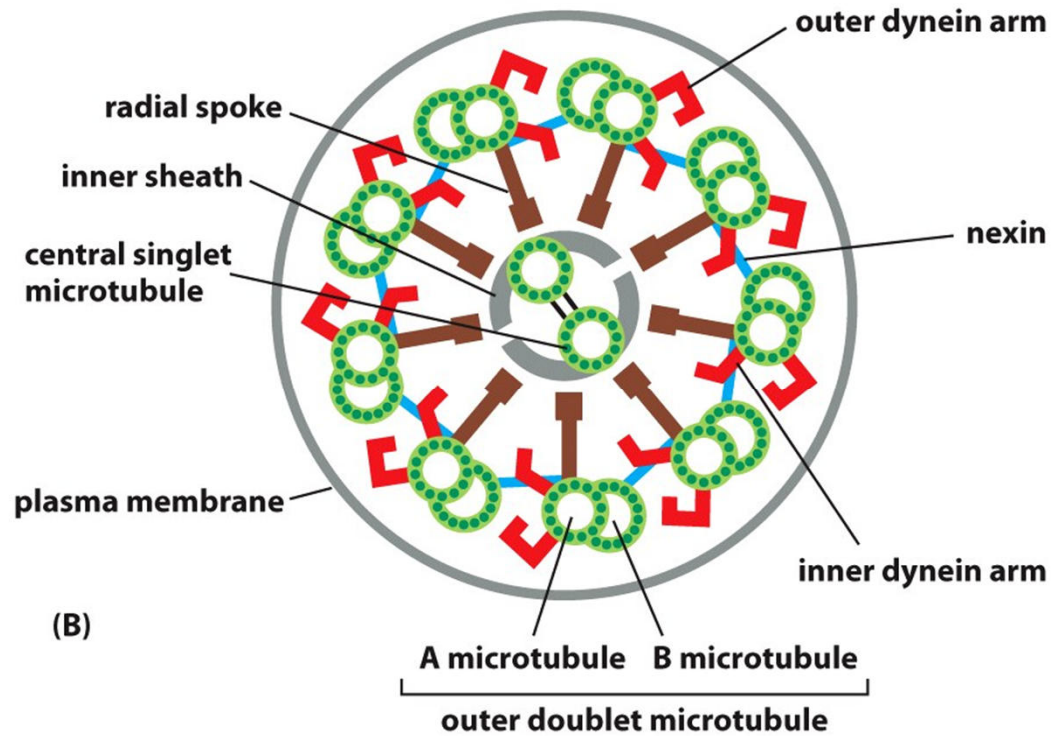
Figure 16-80 Molecular Biology of the Cell 5/e (© Garland Science 2008)

Stavba řasinek a bičíků



(A)

100 nm



(B)

Figure 17-26 Essential Cell Biology 3/e (© Garland Science 2010)

Molekulové motory spojené s mikrotubuly

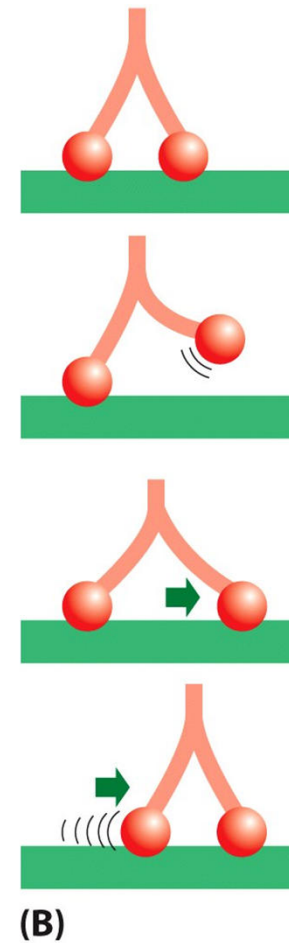
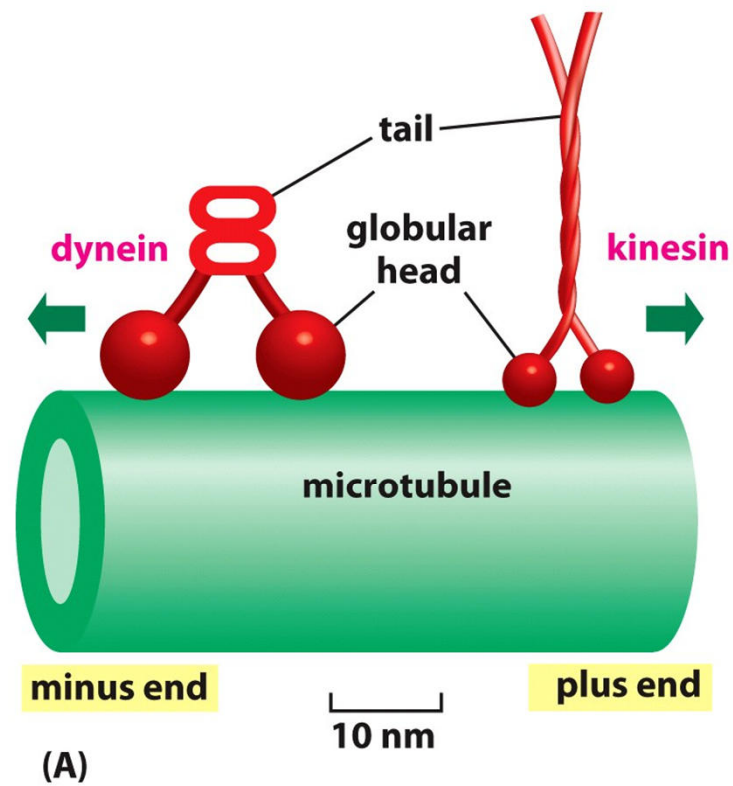


Figure 17-16 Essential Cell Biology 3/e (© Garland Science 2010)

Aktinová vlákna

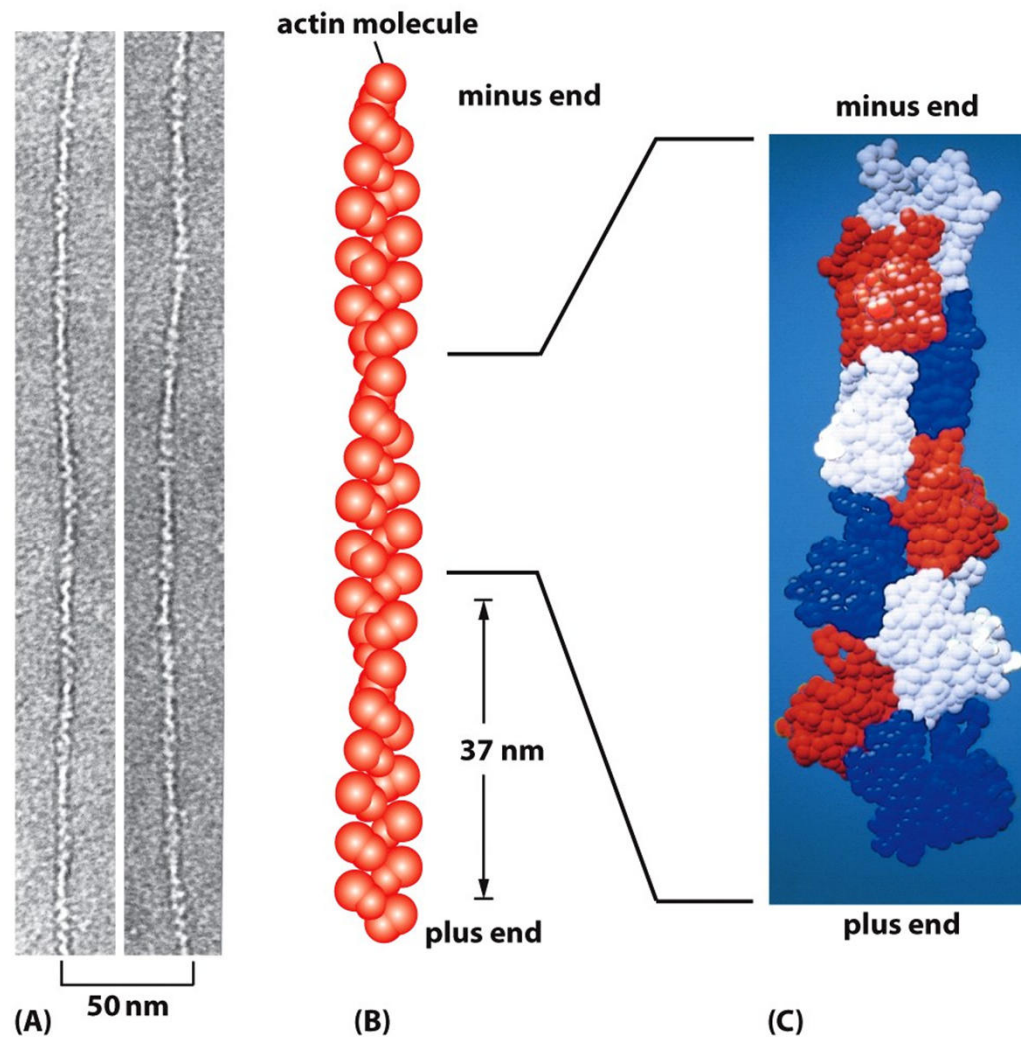


Figure 17-29 Essential Cell Biology 3/e (© Garland Science 2010)

Hlavní třídy aktin-vázajících proteinů

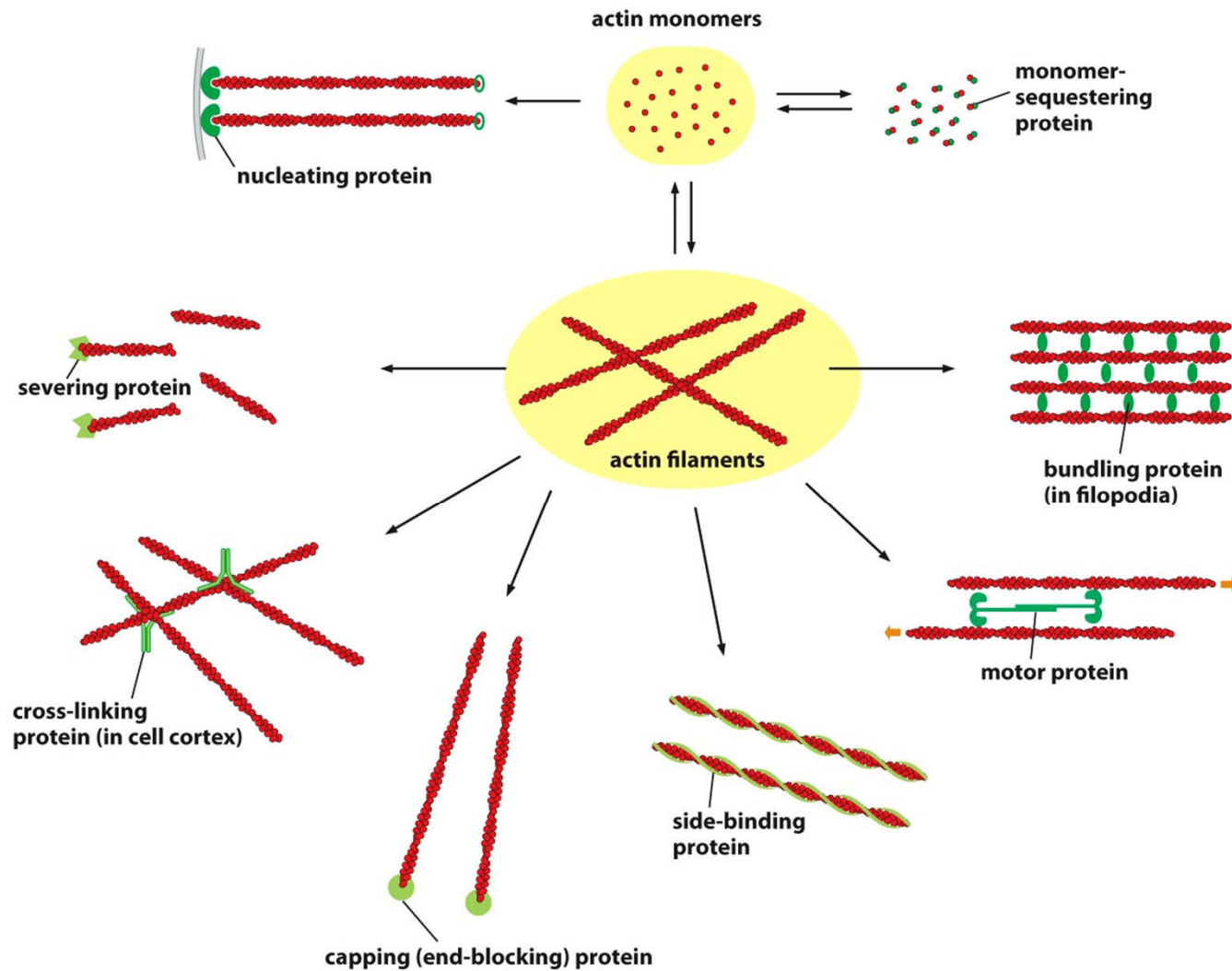
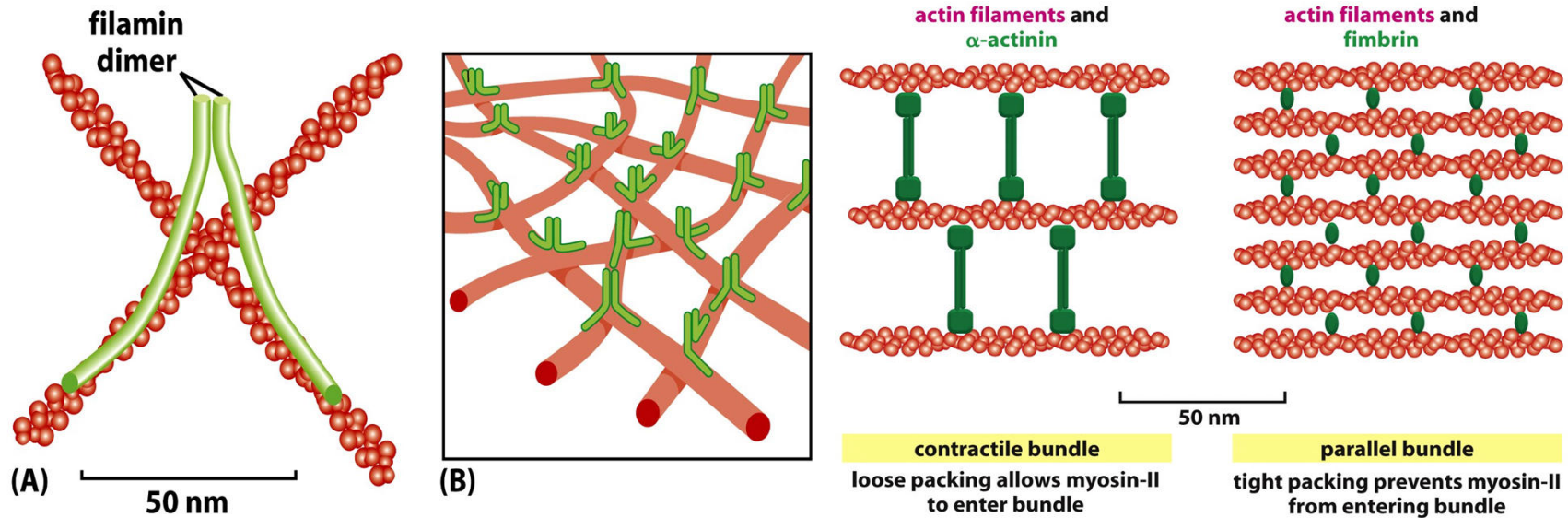


Figure 17-31 Essential Cell Biology 3/e (© Garland Science 2010)

Aktin-vázající proteiny - α -actinin, filamin, fimbrin



Svazky aktinových vláken v buňkách

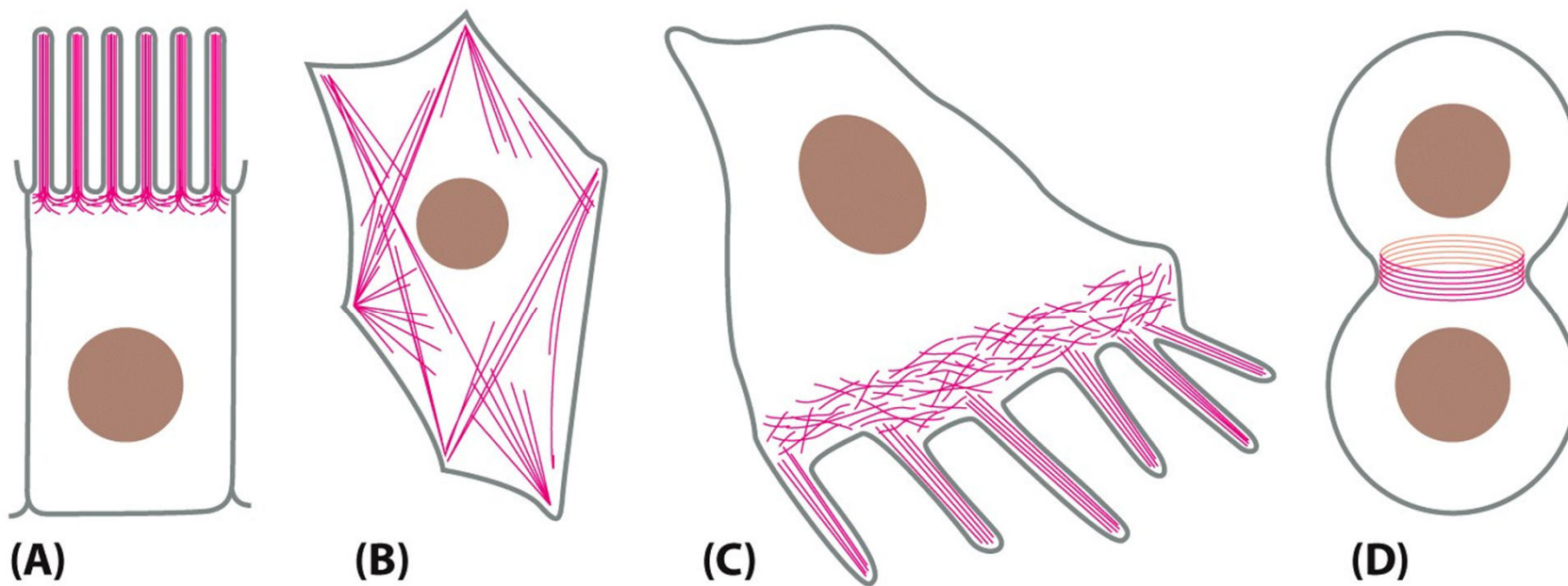


Figure 17-28 Essential Cell Biology 3/e (© Garland Science 2010)

Buněčný kortex

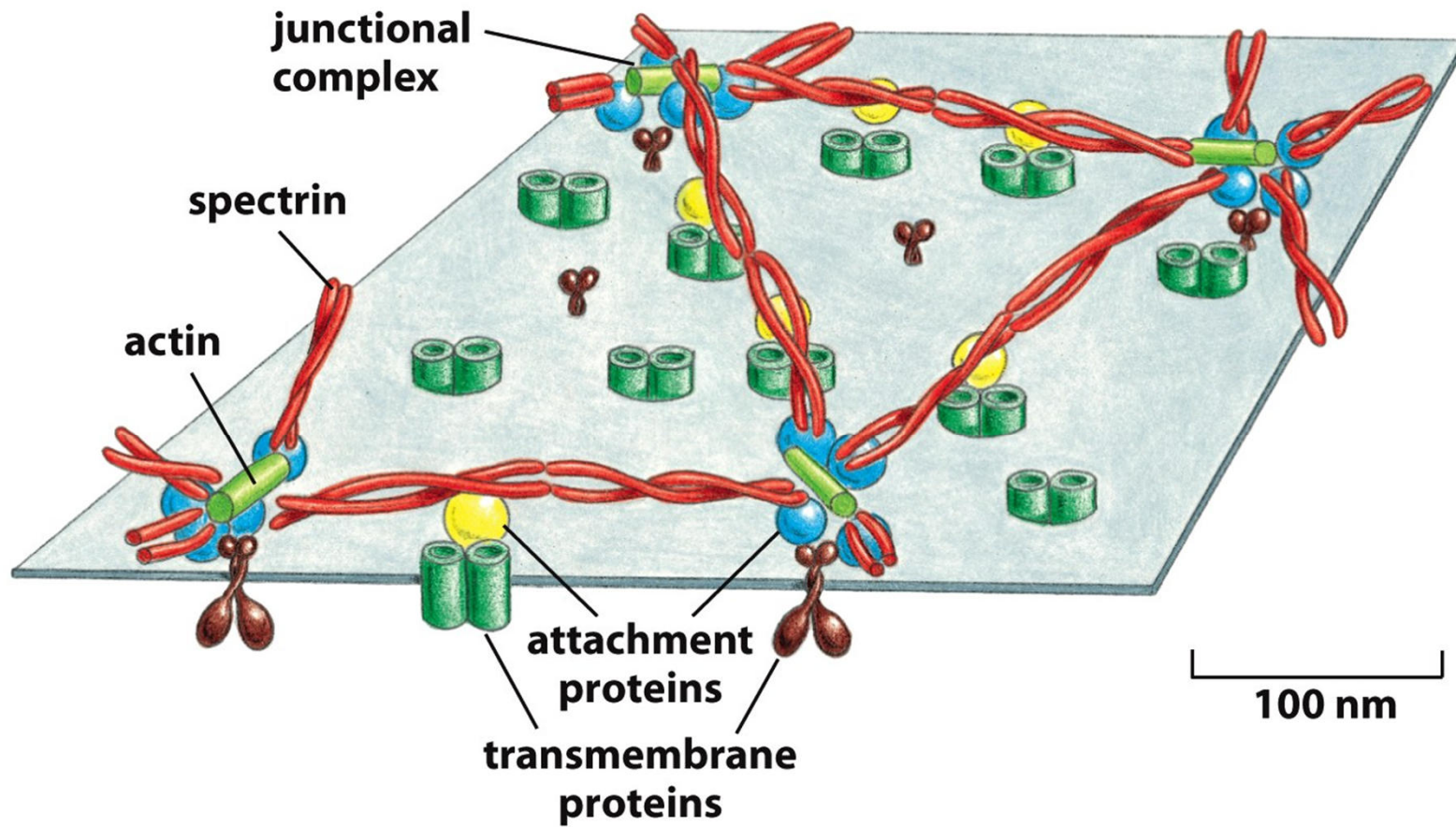


Figure 11-31a Essential Cell Biology 3/e (© Garland Science 2010)

Aktinová vlákna v pohybující se živočišné buňce

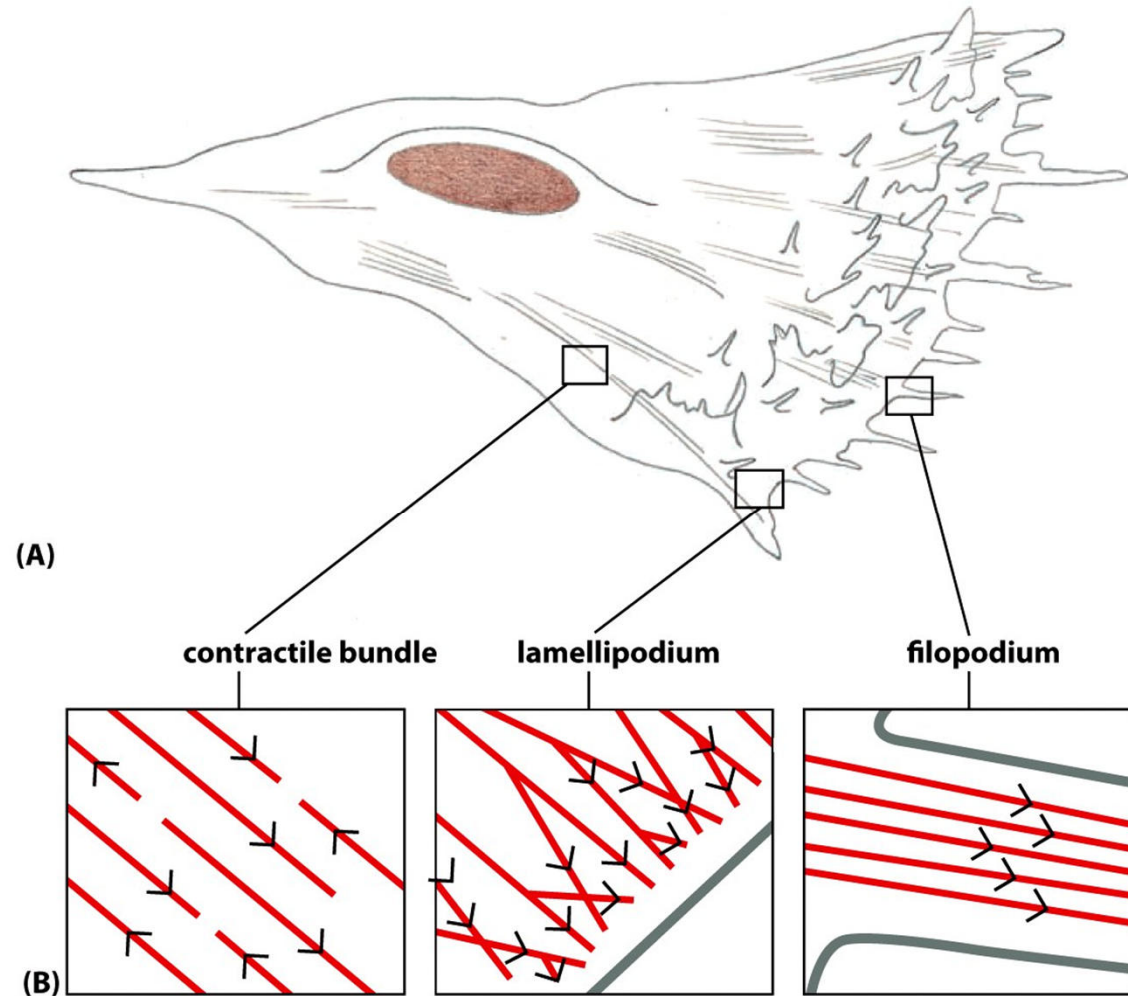


Figure 17-33ab Essential Cell Biology 3/e (© Garland Science 2010)

Pohyb buňky pomocí kortexu

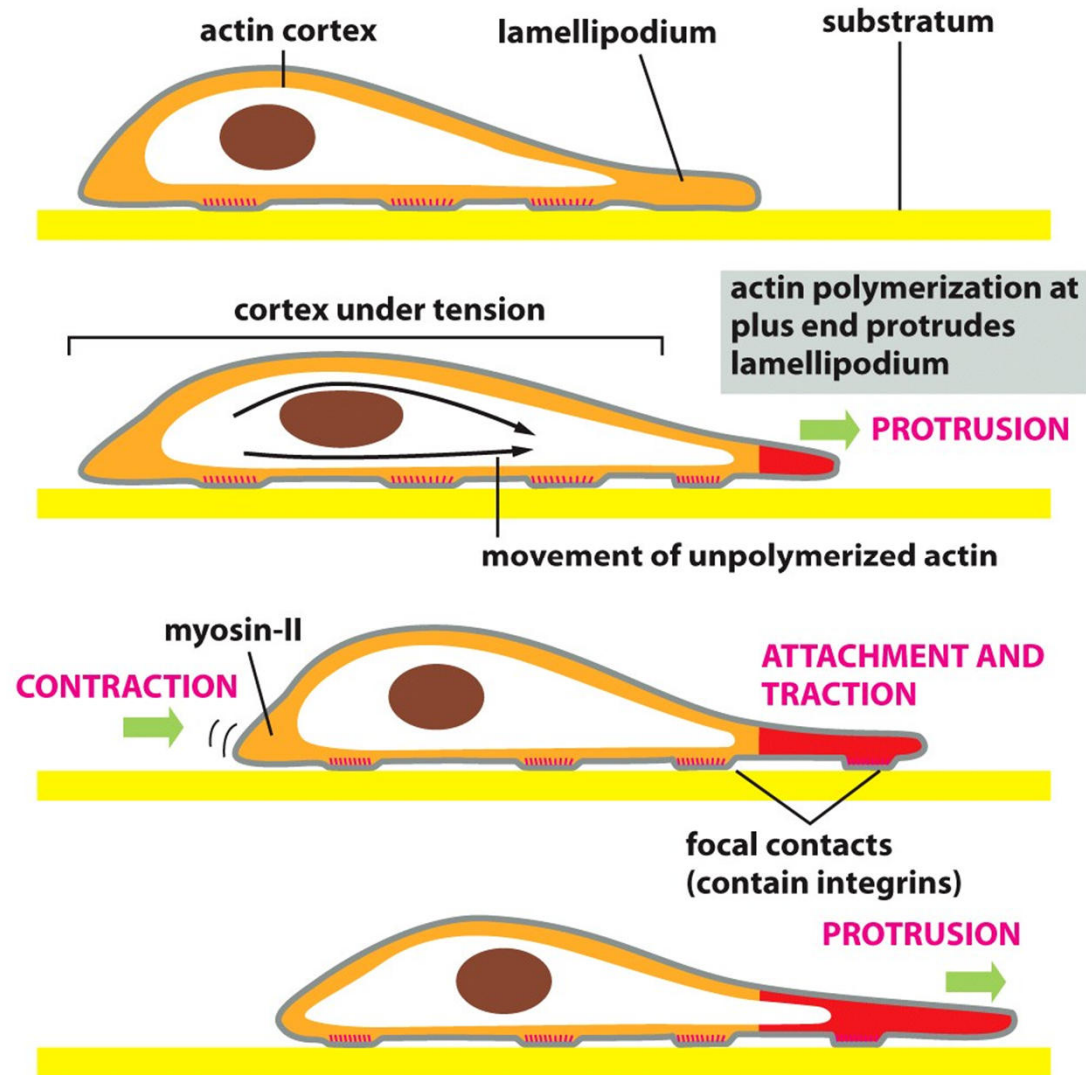
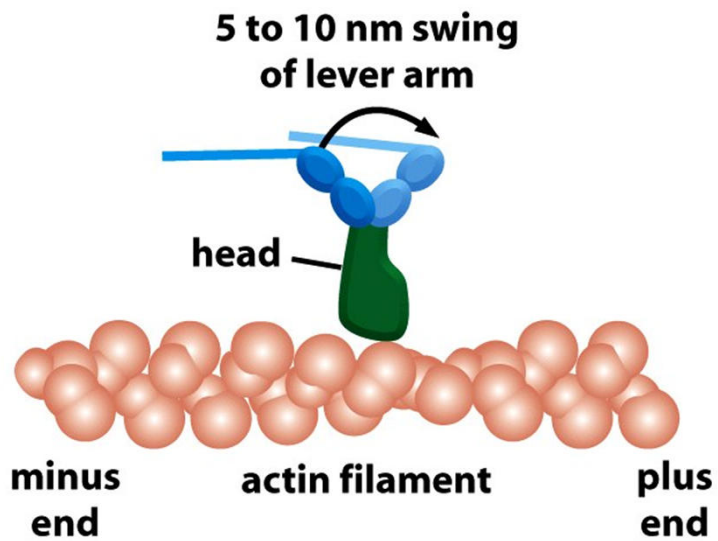


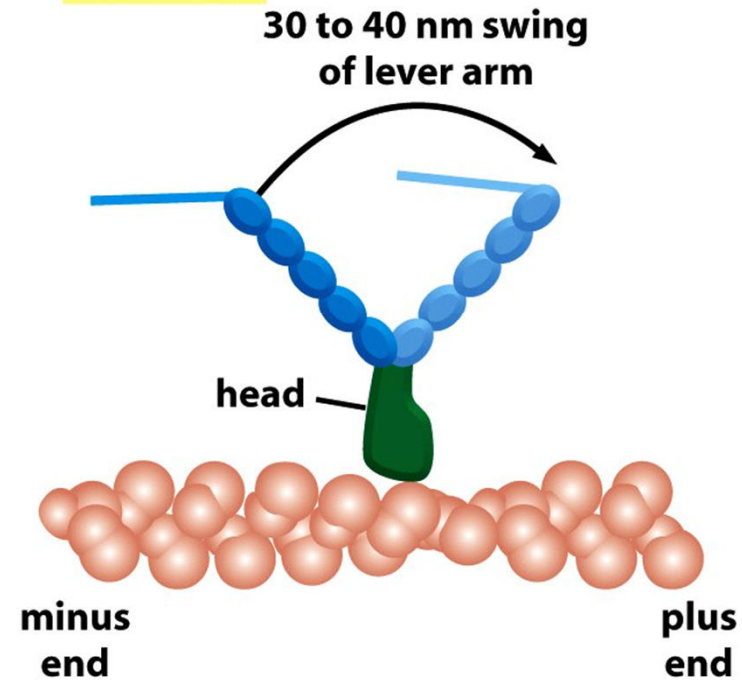
Figure 17-32 Essential Cell Biology 3/e (© Garland Science 2010)

Molekulové motory spojené s aktinovými vlákny

Myosin II



Myosin V



Model posunujících se vláken vysvětluje svalový stah

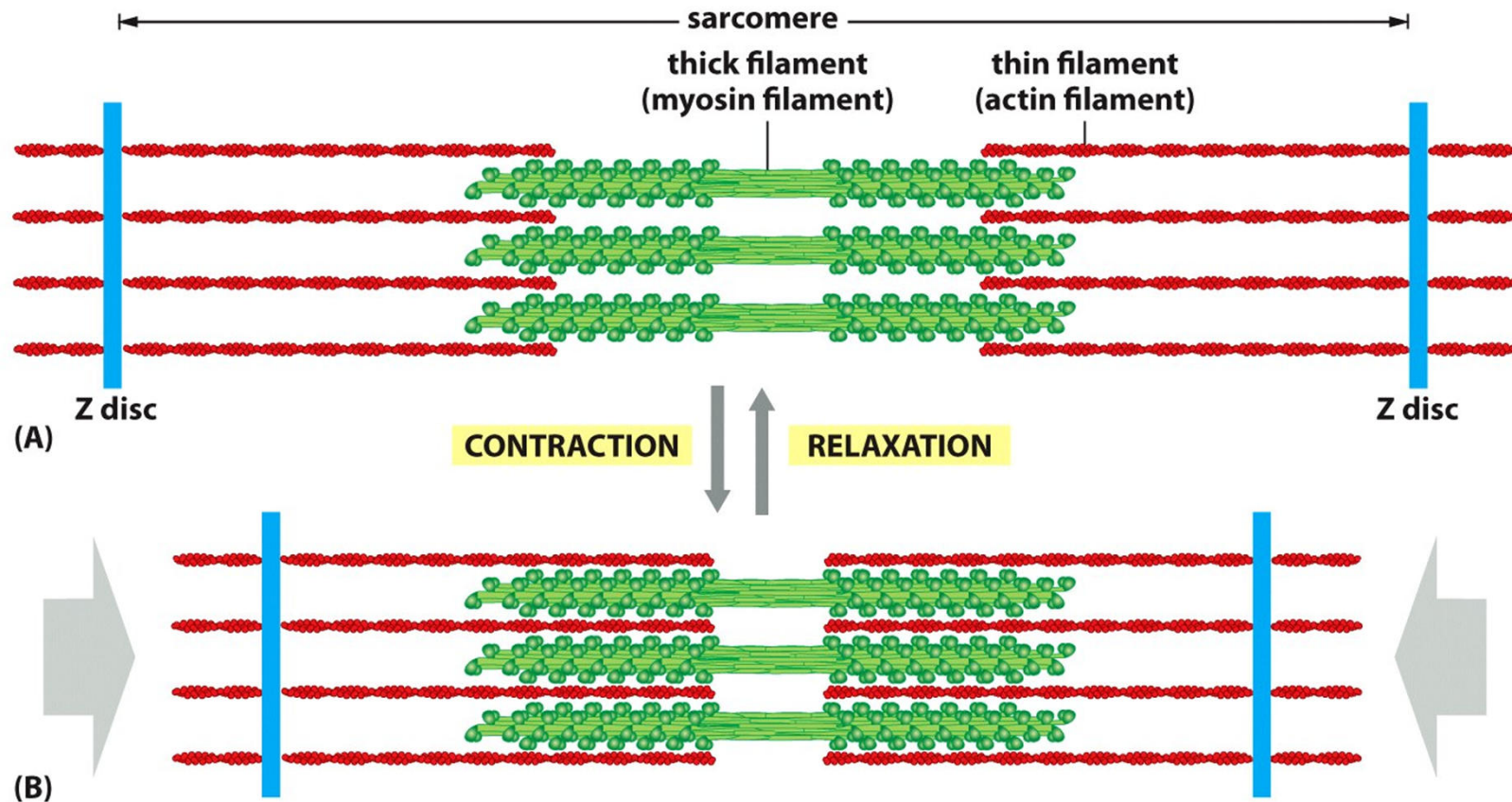
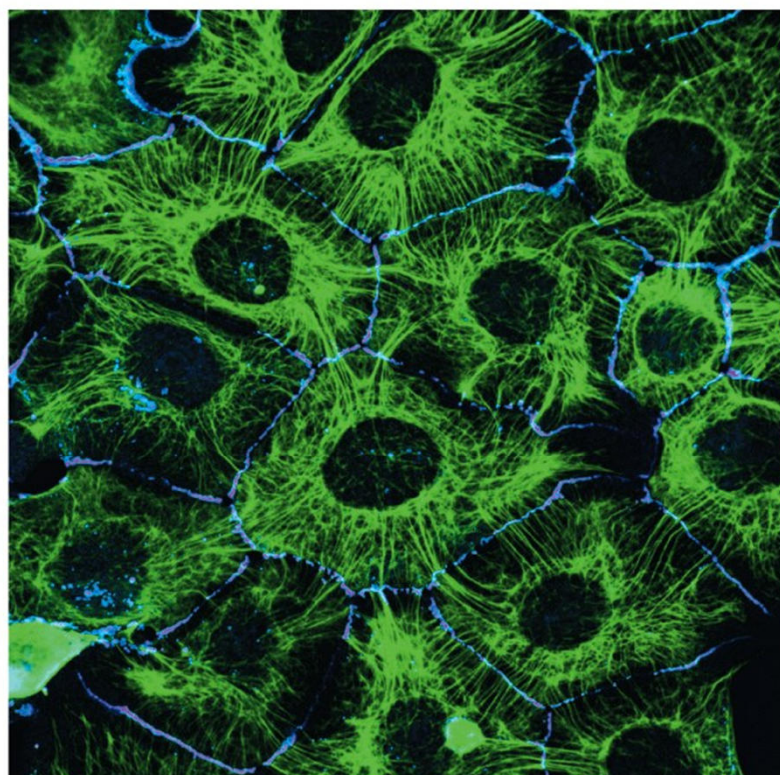


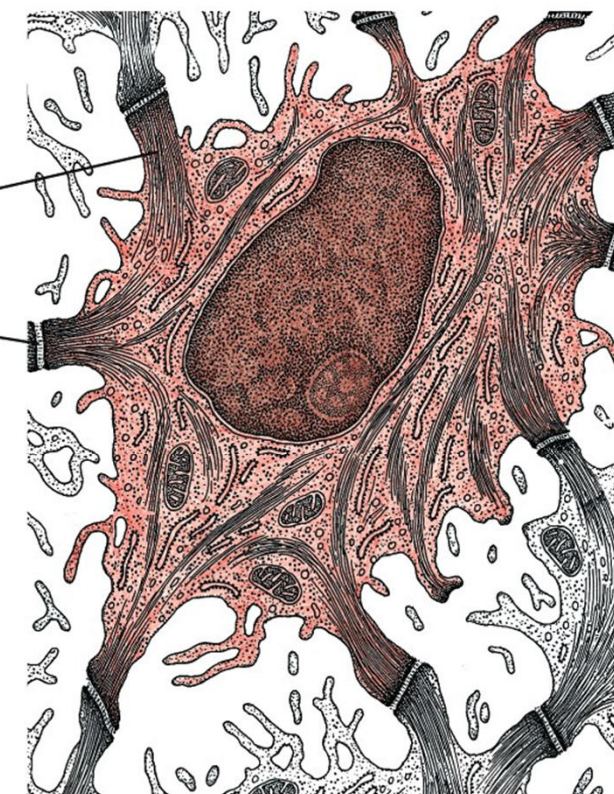
Figure 17-42 Essential Cell Biology 3/e (© Garland Science 2010)

Intermediární filamenta



(A)

10 μm



(B)

5 μm

Figure 17-2 Essential Cell Biology 3/e (© Garland Science 2010)

Stavba intermediárního filamenta

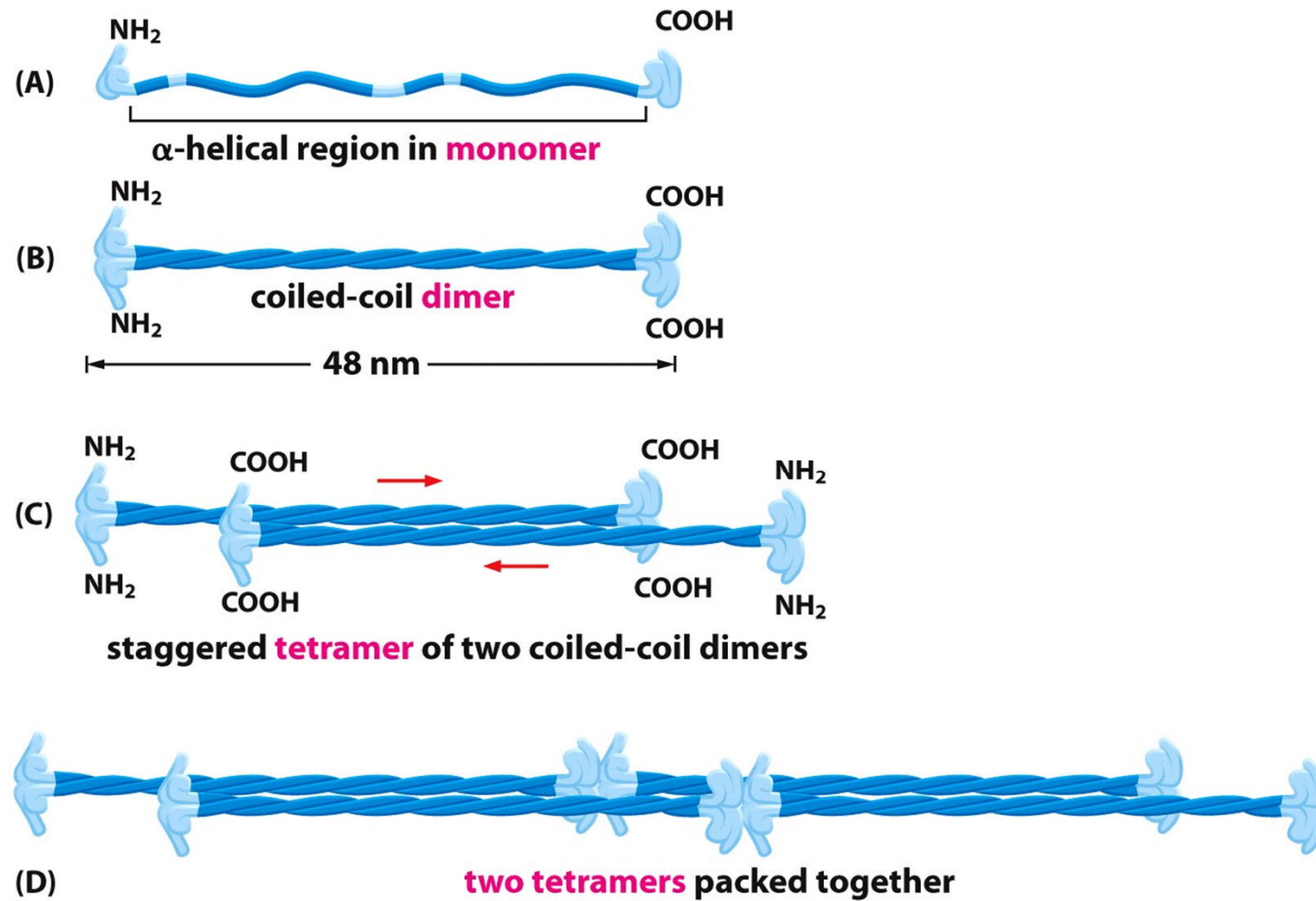


Figure 17-3a-d Essential Cell Biology 3/e (© Garland Science 2010)

Stavba intermediárního filamenta

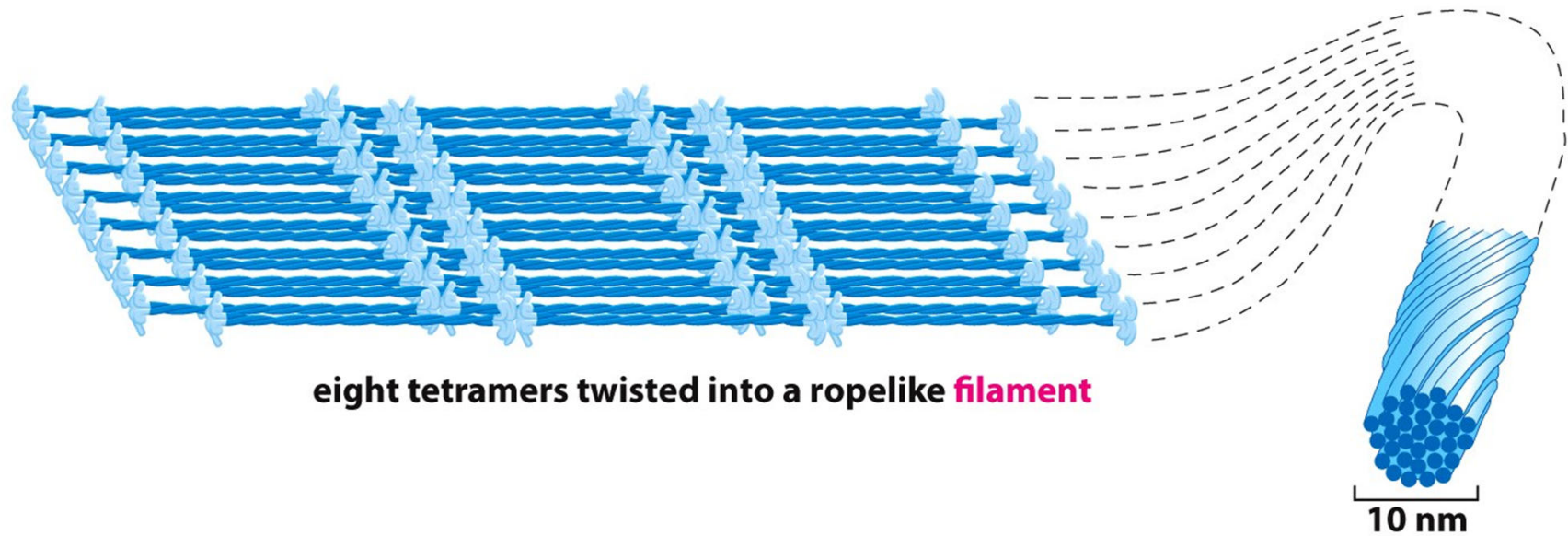


Figure 17-3e Essential Cell Biology 3/e (© Garland Science 2010)

Hlavní třídy intermediárních filament

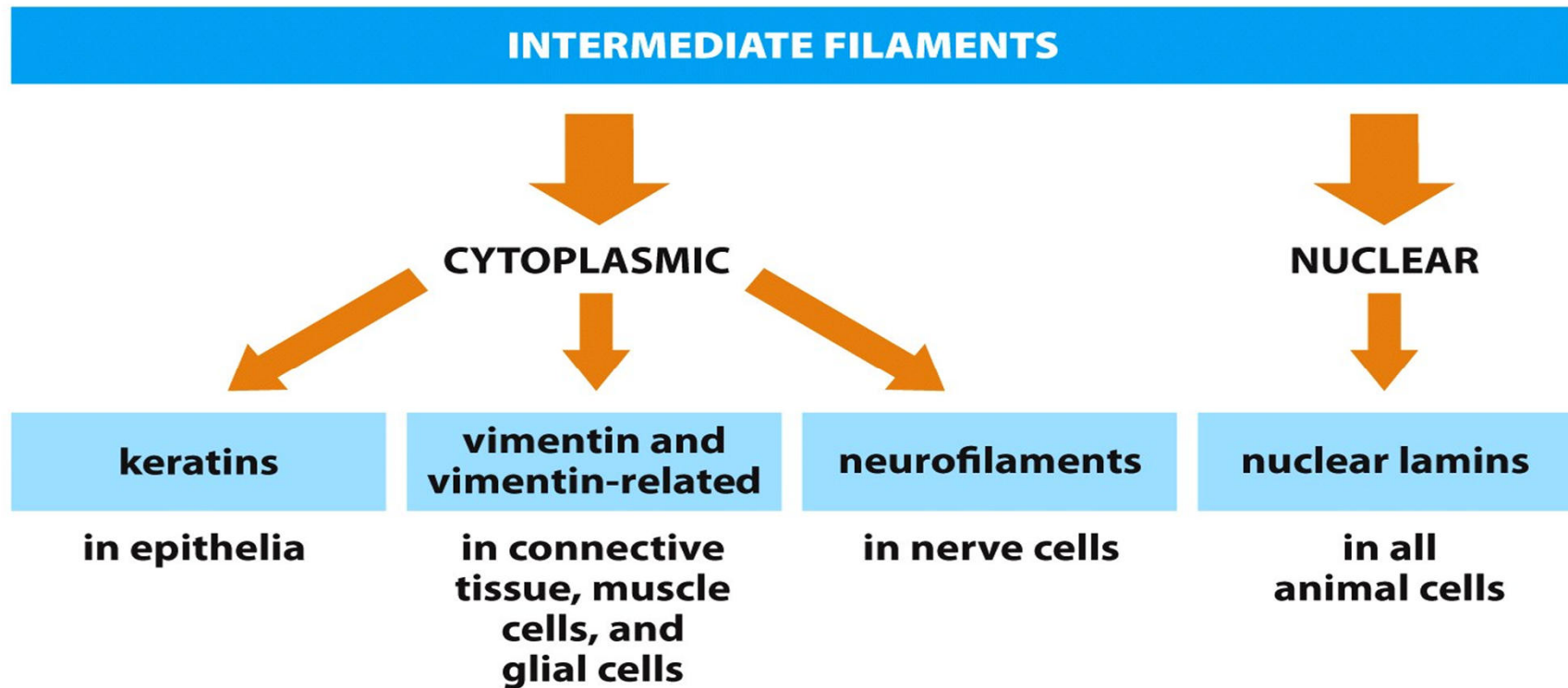


Figure 17-5 Essential Cell Biology 3/e (© Garland Science 2010)