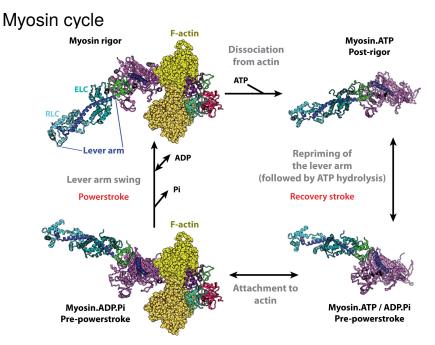
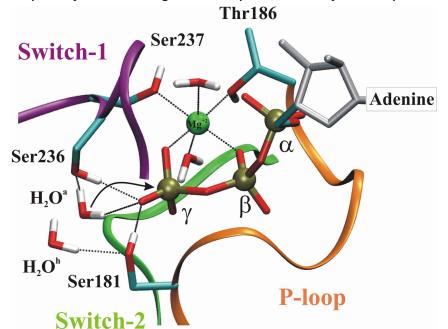
Overview of muscle contraction

See movie on course website.



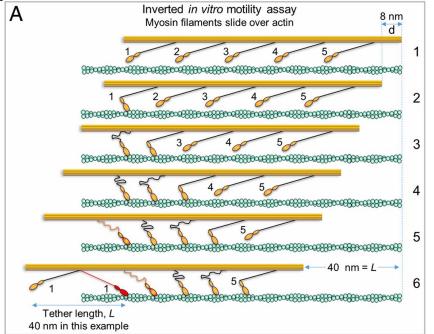
Complexity of bonding: ATP in pocket of myosin II protein



ATP hydrolysis, in slow motion...

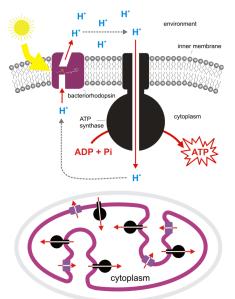
See movie on course website.

Myosin interactions

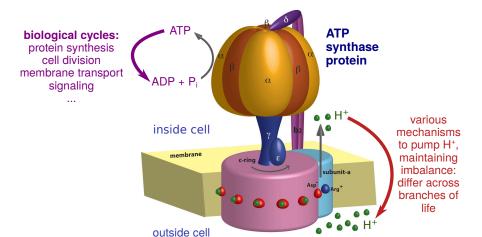


Where does the ATP come from?

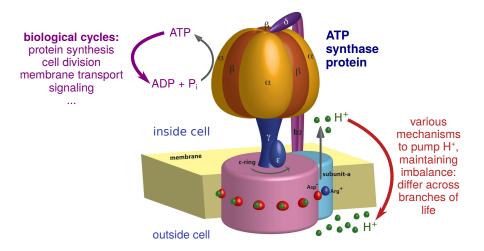
Recall the photosynthetic bacterium:



Where does the ATP come from?



Where does the ATP come from?



Energy source for ATP synthase is chemical potential difference from imbalance of ions on either side of membrane.