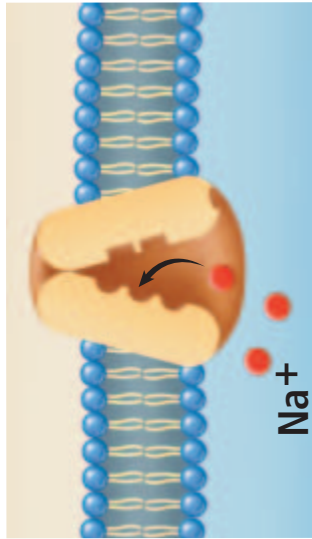
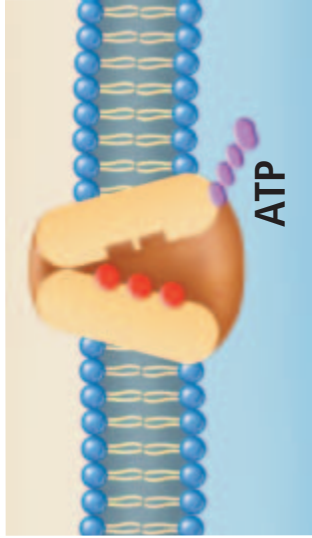


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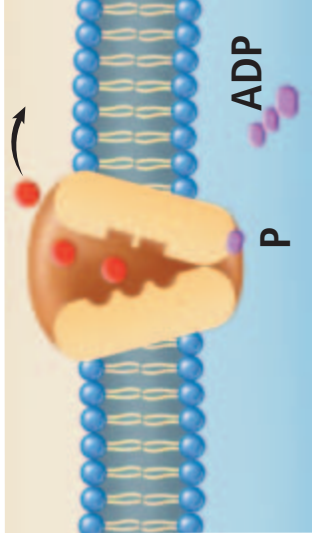
The Sodium/Potassium Pump



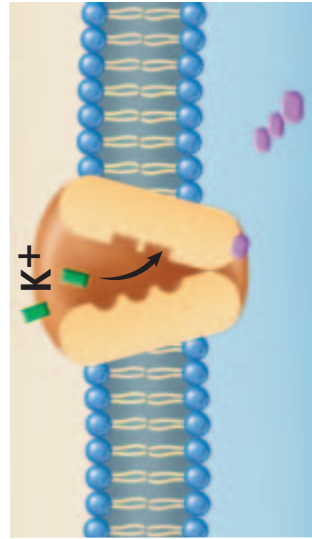
- A** Protein in the membrane binds intracellular sodium ions.



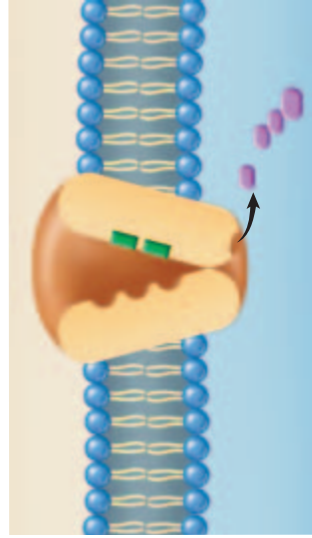
- B** ATP attaches to protein with bound sodium ions.



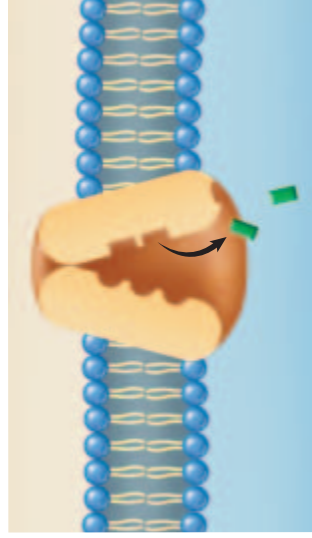
- C** Bound ATP causes shape change in protein, allowing sodium ions to leave with breakdown of ATP.



- D** Extracellular potassium ions bind to exposed sites.



- E** Binding of potassium causes release of phosphate from protein.



- AF** Phosphate release triggers change back to original shape, potassium ions move into cell, and the cycle repeats.