
Recommendations and Resources For Teaching Metabolic Acidosis To The Undergraduate Student In Exercise Physiology

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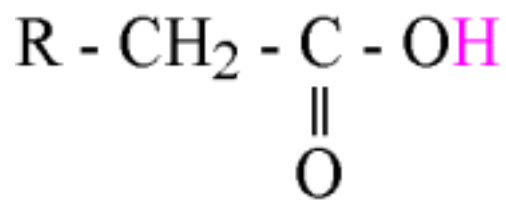
Appendix A

-Figure Resources-

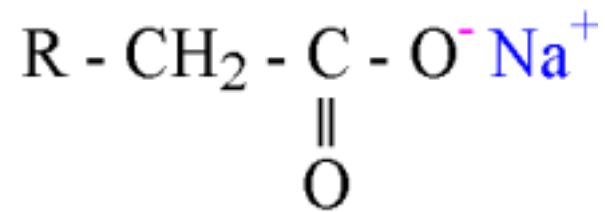
Note: The following figures were used in the published article (**PEPonline**, Vol 4, No. 11, November, 2001). You may use these figures by copying and saving them for use in your own lecture material.

Figure 1

carboxylic acid



carboxylate



(acid salt)

Figure 2F

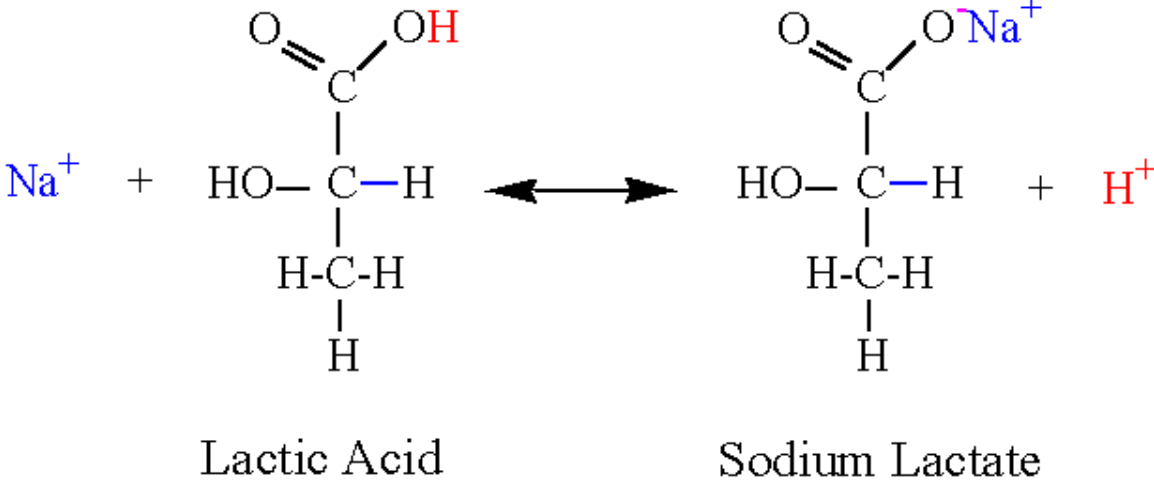
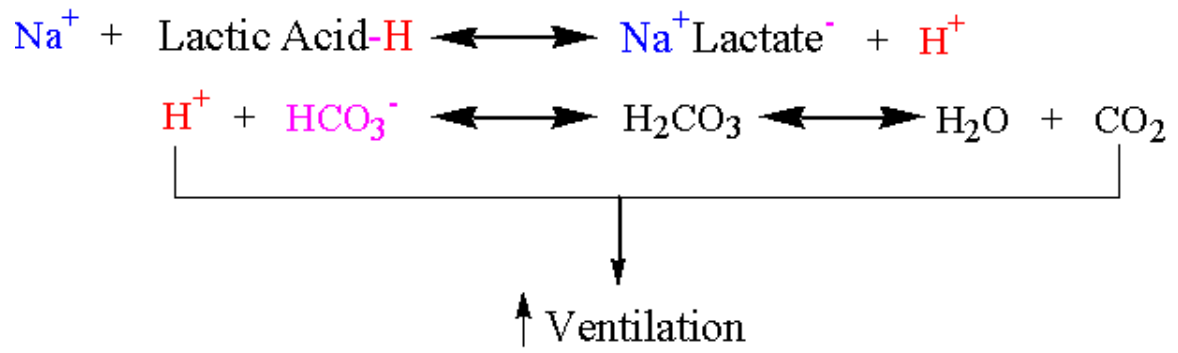
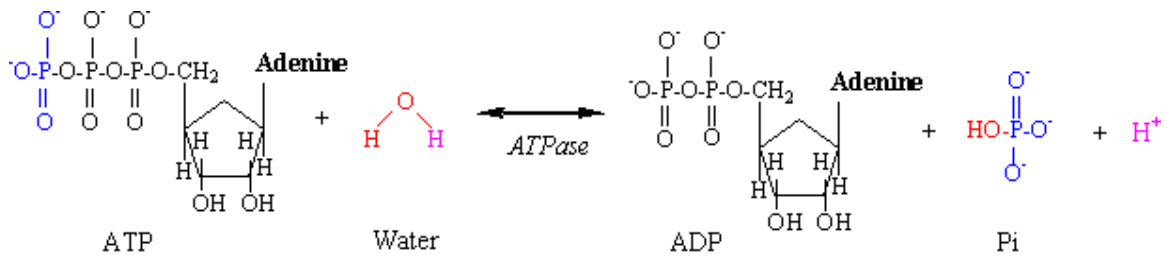


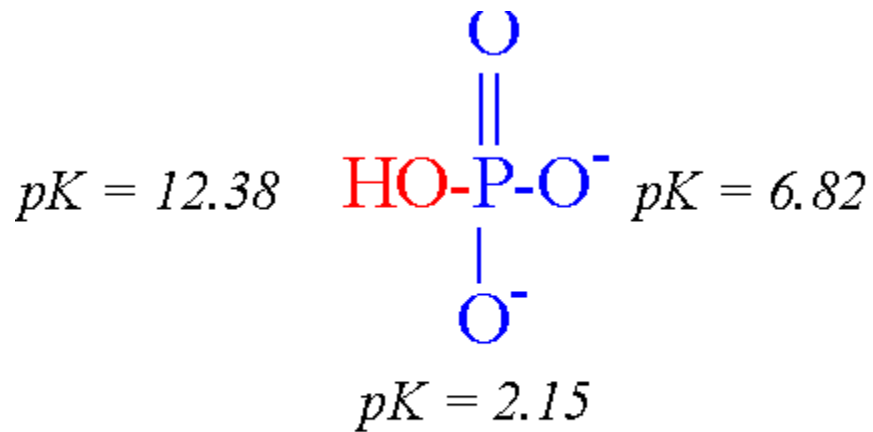
Figure 3



ATP hydrolysis

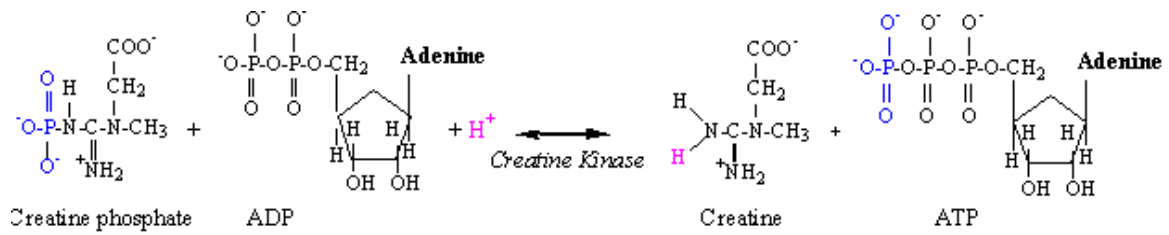


Inorganic phosphate and its associated pK values

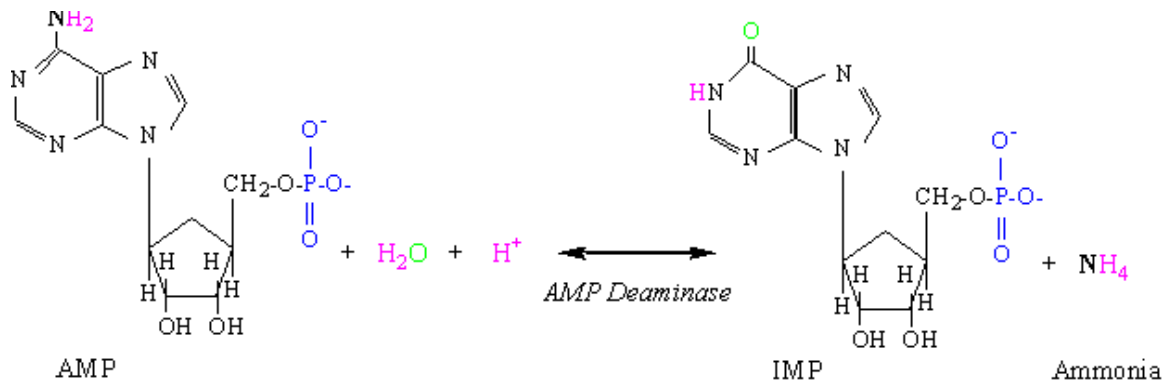


inorganic phosphate (Pi)

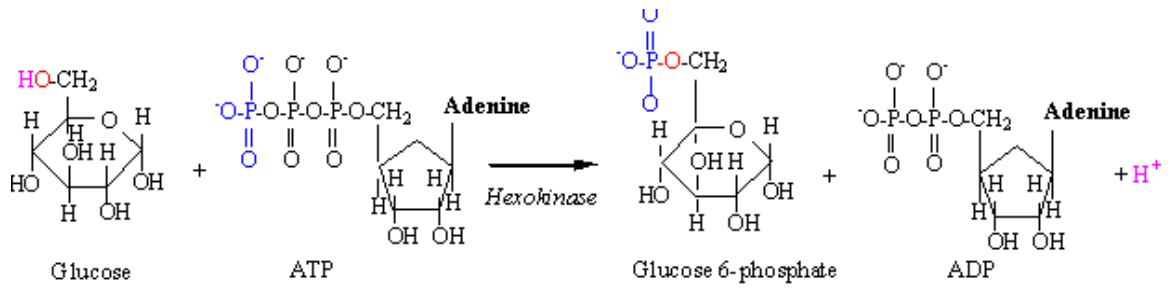
Creatine kinase reaction



AMP Deaminase reaction



Hexokinase reaction



Phosphofructokinase reaction

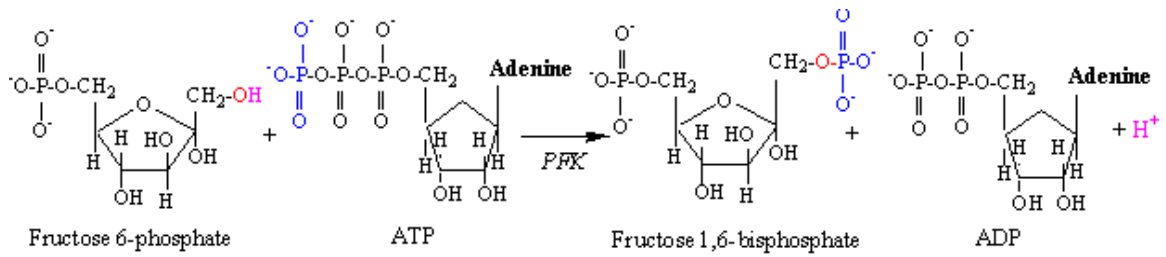
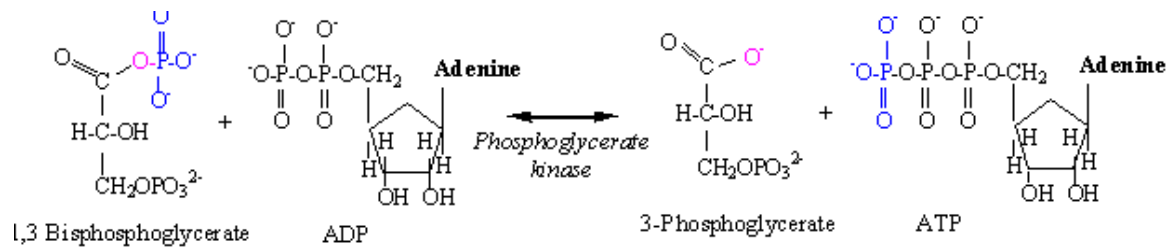


Figure 4: Phosphoglycerate kinase reaction



Pyruvate kinase reaction

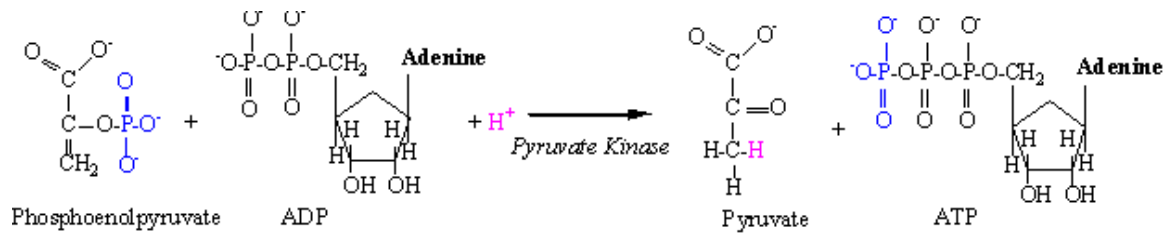


Figure 5: Lactate dehydrogenase reaction

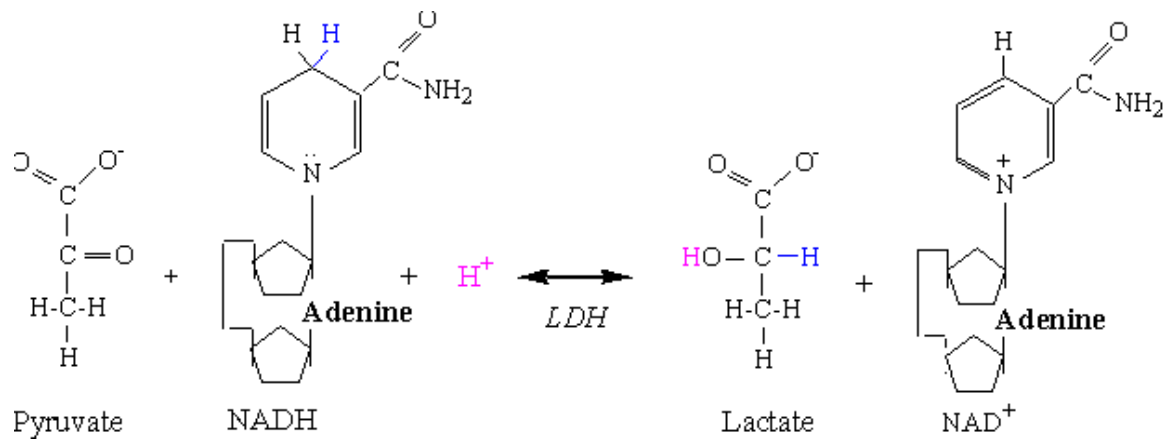


Figure 6: Summary of the benefits of the LDH reaction

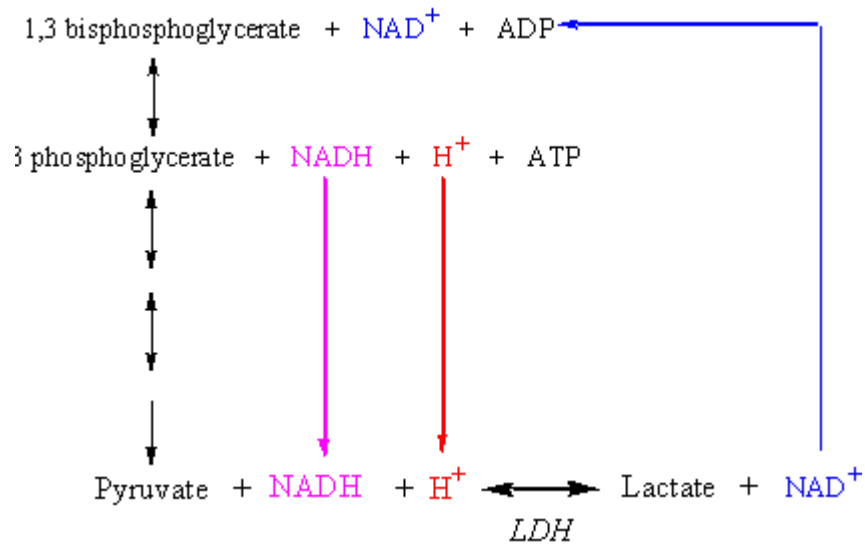


Figure 7: Net substrates and products of glucose conversion to lactate

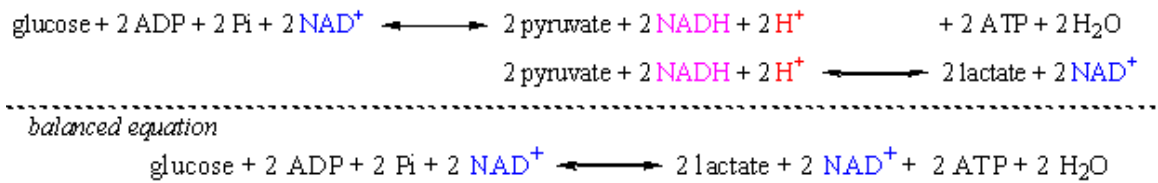


Figure 8: ATP hydrolysis and the pK characteristics of inorganic phosphate (Pi)

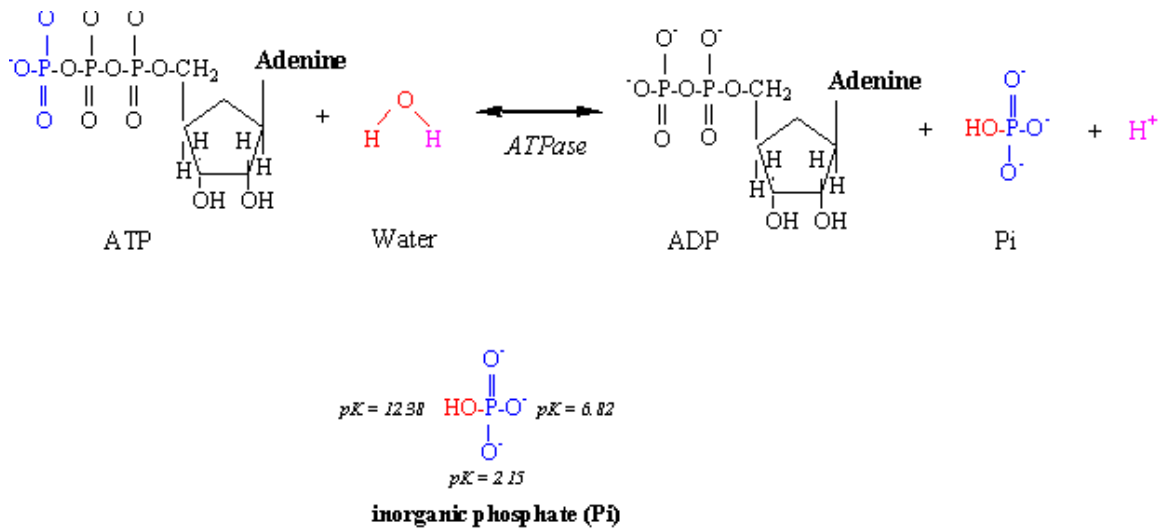


Figure 9: Summary of proton exchange during catabolism in skeletal muscle

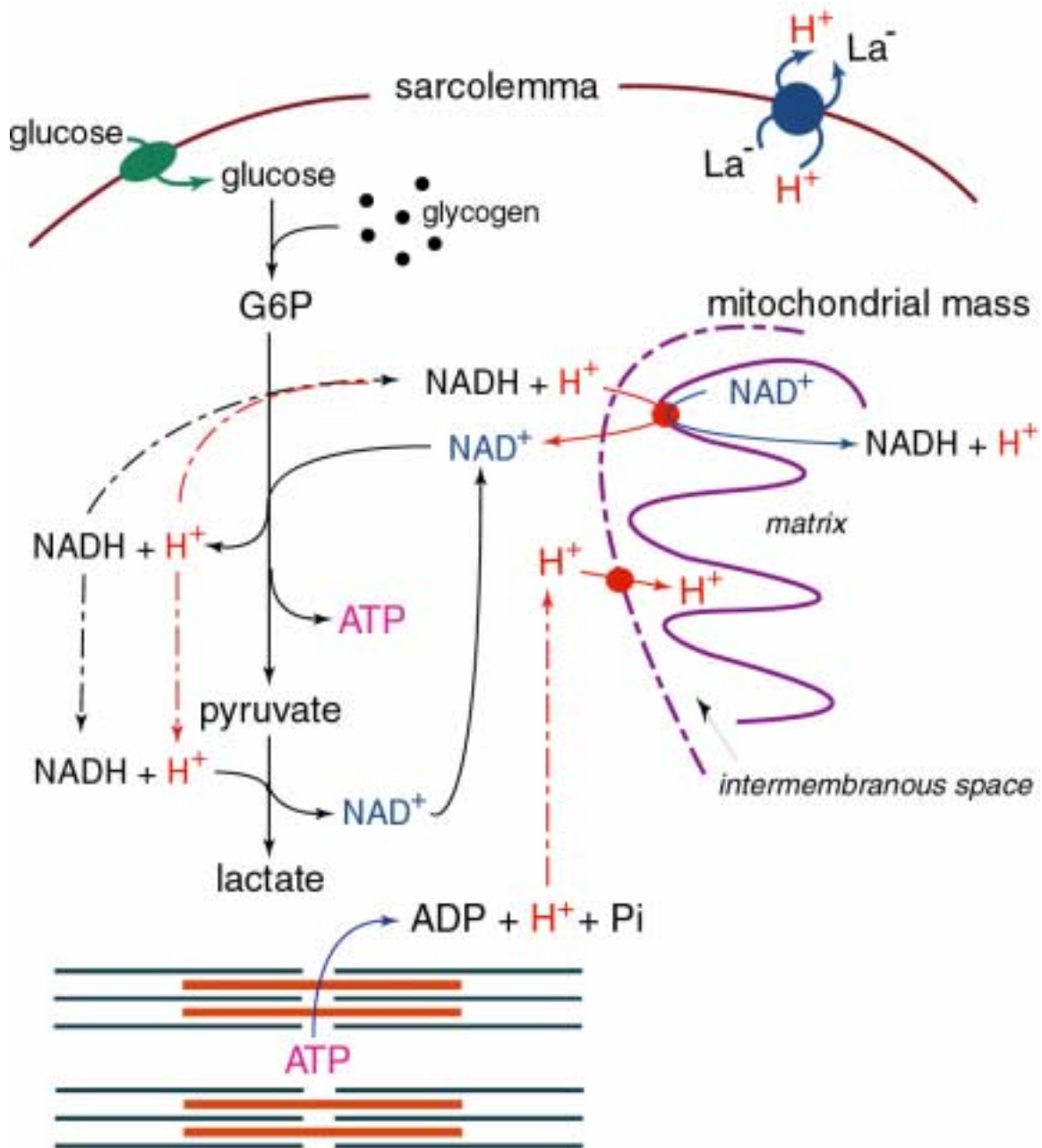


Figure 10: Phosphorylase reaction

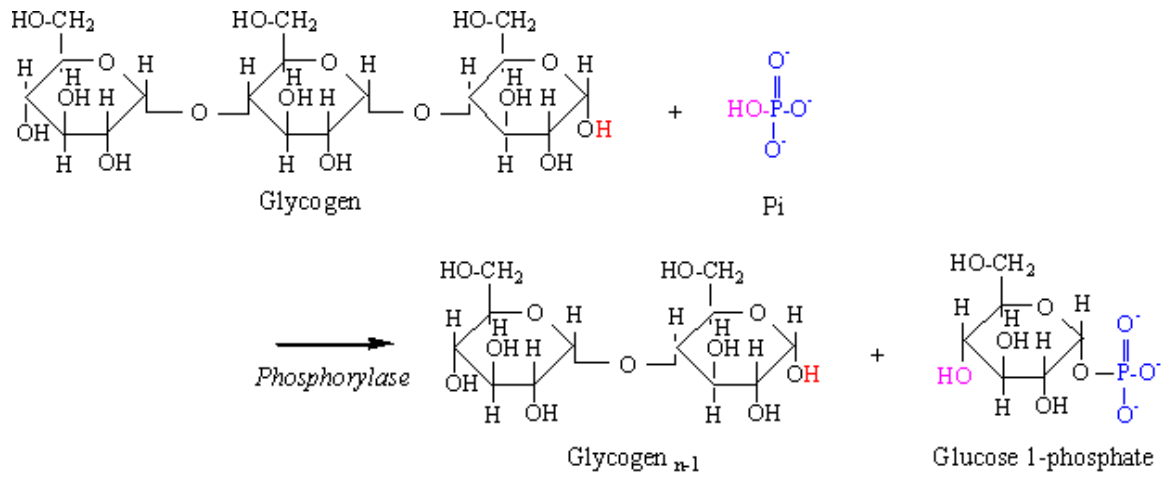


Figure 11: Summary of the proton releasing and consuming reactions of the phosphagen system and glycolysis

