

## **Haemoglobin - (Haem46.tbk, hb-t-r.avi, hb-sub.avi, haem.ico.ico, haem.doc)**

This Toolbook illustrates the important features of haemoglobin. It illustrates the important structural features of haemoglobin including a video of the T-R transition and a subunit. The oxygen-binding characteristics of the molecule are illustrated using animations. The effects of 2,3-BPG, hydrogen ions and carbon dioxide on the ability of haemoglobin to bind and deliver oxygen at different altitudes and under different workloads are illustrated using animations and interactive graphics. The toolbook ends with a quiz of twenty questions designed to test understanding of the material illustrated. The simulation is suitable for first or second year Science, Medical or Dental students following a course in which Biochemistry is a component.

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