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When placing a cell in an environment with different tonicities (solute levels), osmosis causes cellular strutcural changes.





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\* Loss of water causes extracellular fluid to become hypertonic, water then leaves the cells, causing cell shrinkage.

 Build-up waste products in the body

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Water Potential Iry for yourself! Consider three scenarios (A, B and C) and answer the following questions (I, II and III) for each. A Raisins in pure water. . What term best describes the external cell environment? f B Human red blood cells in a solution with a high solute concentration II. Which way does the water move and why? G. Caroling with saltwater to relieve a sore throat. III. What is the result of osmosis? OSMOSIS-IN\_PLANT\_CELLS [with cell wall] Most plant cells are HYPERTONIC relative to their environment. Therefor water tends to move inwards (high hydrostatic pressure) leading to a HIGH TURGOR PRESSURE (pressure exerted against a boundary in a confined space). This pressure is important in helping plants maintain shape and remain upright.

ISOTONIC environment IVPOTONIC environment 

(keeps the plant upright)

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(causes the plant to wilt)

blood cell - C. I. Hyppertonic, II. Moves out of the throat cells, III. Bhrinking of raisin - B. I. Hyppertonic, II. Moves out of the red blood cell, III. Bhrinking of throat cells.





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