Lecture 1: Homeostasis

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- Homeostasis: process of maintaining a constant internal environment for all cells in the body
 - Ex: body temperature, it is maintained at 98.6 degrees F because that is the optimal temperature for enzymes
 - Homo: Same
 - Stasis: state
- A **unicellular system** in different extracellular environment (a single cell in different environments):
 - Sea Water: the single cell dehydrates (shrivels)

Motesale.co.uk cell...the salt water pertonic

- Water moves out of the cell (From low concentration of solutes to high concentration of solutes aka Osmosis)
- More simply put water moves from less sait (inside the cell) to more sait (cutsice the ceil)
- * Fresh Water
 - Has a lower [ions] than the single cell
 - Water moves into the cell (the cell bulges or may even "lyse," which means burst)... the fresh water is hypotonic
 - Same thing concept applies, but reverse result:
 - THIS TIME Water moves from less salt (outside the cell) to more salt