

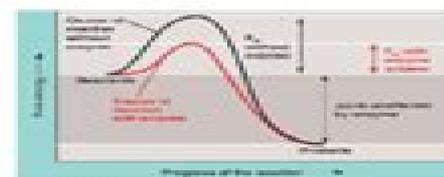
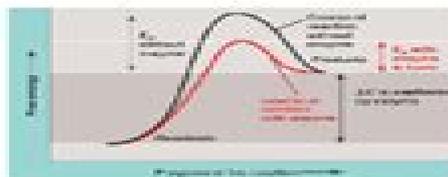
# Enzymes

- the chemistry of life is organized into **metabolic pathways**
- all metabolic pathways consist of a **series of reactions** which convert one molecule (the **reactant**) into another (the **product**)
- a specific enzyme catalyzes each step of the pathway
- 2 types of pathways:
  - Catabolic pathways**
    - release** energy by **breaking down** complex molecules to simpler compounds
      - cellular respiration
  - Anabolic pathways**
    - consume** energy to **build** complicated molecules from simpler compounds
      - synthesis of protein from amino acids
- chemical reactions can be classified as either **exergonic** or **endergonic** based on the change in energy that occurs because of the reaction
  - endergonic** reaction - **absorbs energy**
  - exergonic** reaction - **releases energy**

Energy in chemical reactions

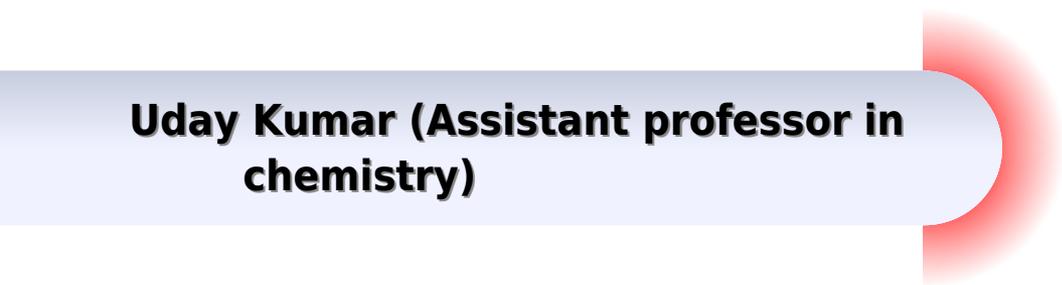


- many chemical reactions occur spontaneously in cells but at very slow rates
  - enzymes lower **energy barriers**
    - act as a **catalyst**
    - specific** sp. rate of reaction
    - is **not consumed** in the process
- the initial investment of energy for starting a reaction is the **activation energy ( $E_A$ )**
  - this is the amount of energy necessary to **push** the reactants over an **energy barrier** so that the reaction can **proceed**
  - heat would speed up reactions, but it would also **denature proteins** and kill cells
  - enzymes **lower  $E_A$**



# Chemistry Of Life Enzyme Notes What Is An Enzyme Quia

**Uday Kumar (Assistant professor in  
chemistry)**



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