

The Working Cell

Lecture 5: Cellular Metabolism

metabolism → culmination of all the "work" that your cell does

- the use of energy
- importance of enzymes
- building or breaking down molecules
- movement of fluids or molecules

energy → capacity to do work / cause change

2 TYPES OF ENERGY

- * Potential energy - stored energy
- * Kinetic energy - energy in motion

Conservation of Energy

Law of thermodynamics

→ energy cannot be destroyed nor created

Heat → energy that is lost
→ caused by the friction between atoms & molecules

Chemical Energy - where energy comes from
- molecule in food can be broken down & digested to provide energy & nutrients

Laws of thermodynamics

ENTROPY - random nature of energy
- measures "randomness" (disorder) of energy

- Heat is produced in most every reaction
 - * Exothermic reactions → releases energy (exergonic)
 - * Endothermic reactions → absorbs energy (endergonic)
- All transfers of energy loses heat
 - * Energy transfer loses 90% of energy as heat

Enzymes → made of proteins
→ proteins that perform cell reaction

↳ shape determines functions

- * Substrate - where the specific molecule that an enzyme acts on



active site - fit the substrate

PROPERTIES / FEATURES

- made of proteins
- speed up reaction
- don't change reaction
- unharmed
- reusable

ENZYME INHIBITION

- slow down from doing its job



The Working Cell Guide Answer

Emilie Sanchez



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