

BIOL 120-Microbiology

Lecture-3

Metabolism and Molecular Biology

Metabolism

- ❖ Cells need to do two basic things to sustain life; they have to capture nutrients to create energy and utilize that energy to build things the cell will need.
- ❖ If a cell isn't directly capturing energy from the sun (photosynthesis), which some microorganisms can do, just like plants, they are acquiring organic nutrients from the environment to create energy that is stored in ATP.
- ❖ They use this energy to produce needed cell components.
- ❖ Microorganisms are the ultimate scavengers, but they can make what they cannot easily find if necessary.

Metabolism and Enzymes

- ❖ Metabolism refers to the chemical reactions inside a cell.
- ❖ There are two basic types of useful **chemical reactions**:
catabolism and anabolism

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