

## Metabolism Overview and Glycolysis Introduction

### I. All E transformations

### II. Metabolism

#### 1. metabolites

#### A. Catabolism

#### B. Anabolism

#### C. Pathway controls

### III. C sources

#### A. Autotrophs

#### B. Heterotrophs

### IV. Oxidation of C fuels

#### A. ATP

### V. Regulation

#### A. Amounts of enzyme

#### B. Catalytic activity

##### 1. Reversible allosteric control

##### 2. Reversible covalent modification

##### 3. Hormones

##### 4. energy status of the cell

###### a. energy charge

#### C. Accessibility of substrates

##### 1. compartmentalization

##### 2. influx of substrate