

#disorganized

## 1 | Amino Acids

### 1.1 | Basics

#### 1.1.1 | Functional Groups

Components of amino acids that, well, build an amino acid (among other things):

See KBhBIO101FunctionalGroups.

#### 1.1.2 | The Dang Amino Acids

An Amino Acid is...  $\text{*(H-O-C=O)}$  Carboxylic acid + Single Carbon Backbone

- Amine ( $\text{H}_3\text{N}^+$ )\*

At the carbon backbone, any arbitrary thing "R group, or Sidechain" may be connected to it {ring, chain, etc.} that is unique to the amino acid

Here's an amino acid

The White parts => "Backbone" aforementioned

The Orange parts => "Sidechain"

A small chain of amino acids are called "peptide". Put many of those together and you get a...

### 1.2 | Protein!

KBhBIO101Proteins are important biological structures formed by dehydrating multiple amino acids together.

### 1.3 | Polymerization

The process by which Amino Acids get chained together to make KBhBIO101Proteins is called "Polymerization via Dehydration."

Take two amino acids, take the H-O out of the alcohol, take the H out of the Amine. Fill the hole with the other one

