

## 1 | Functional Groups of Biology

- Alcohol Group:  $\text{H-O-R}$  (part of the Carboxyl when  $\text{R}=\text{C}$ , as in  $\text{H-O-C}$ )
- Carbonyl:  $\text{C=O}$  (part of carboxyl)
- Carboxyl/Carboxylic Acid:  $\text{H-O-C=O}$  (left side of backbone) Screen Shot 2020-10-12 at 2.29.28 PM
- Amino/amine —  $\text{H}_3\text{N}^+$  (right side of backbone)
- Amide —  $\text{RC(=O)NR'R''}$  (frequently shown in side chains of amino acids — see Amine)
- Ether:  $\text{R-O-R}$  (structure of glycosidic bonds formed by dehydration)
- Ester:  $\text{R-O-C-O}$  (structure that joins fatty acid and glycerol together)
- Hydroxyl:  $\text{OH}$  group. Need I say more?