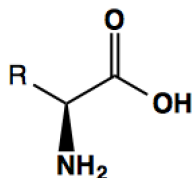


## CONCEPT: AMINO ACID CONFIGURATION

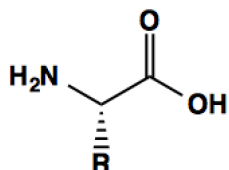
All of the chiral amino acids *derived from proteins* have an L-(S)-configuration at the  $\alpha$ -carbon

- The L-configuration is commonly represented in the following ways:

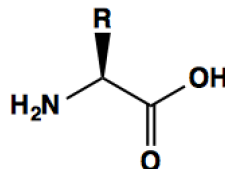
**Amino Acid - Amine Wedged**



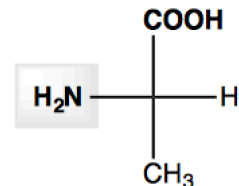
**Sidechain - Down / Dashed**



**Sidechain - Up / Wedged**

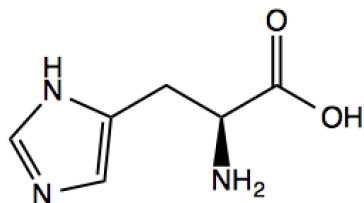


**Fischer Projection**

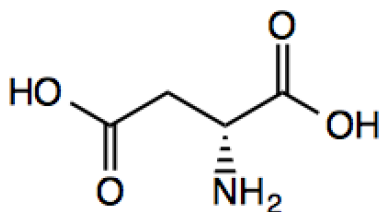


L = amine *left*

**EXAMPLE:** Convert the amino acid Histidine (H) into a Fischer Projection. Indicate if the chiral center is R or S.



**PRACTICE:** Provide the Fischer Projection representation of D-Aspartic Acid. Indicate if the chiral center is R or S.



**PRACTICE:** Convert the following Fischer Projection of L-Proline into a bondline structure

