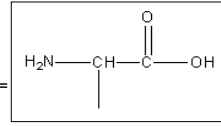


The 20 Amino Acids

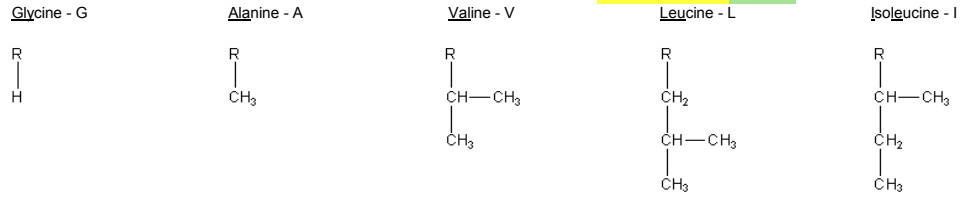
Mnemonics Notes:

- GAVLI 1) In each of the structures below the R group stands for the rest of the molecule
- FYWPH 2) Underlining indicates the 3 letter abbreviation.
- MSTAG 3) Capitalization indicates the 1 letter abbreviation.
- CNQLR 4) Carboxyl groups COOH dissociate into COO⁻ and H⁺ and physiologic pH.
- 5) NH₂ groups tend to become NH₃⁺ depending on pH.

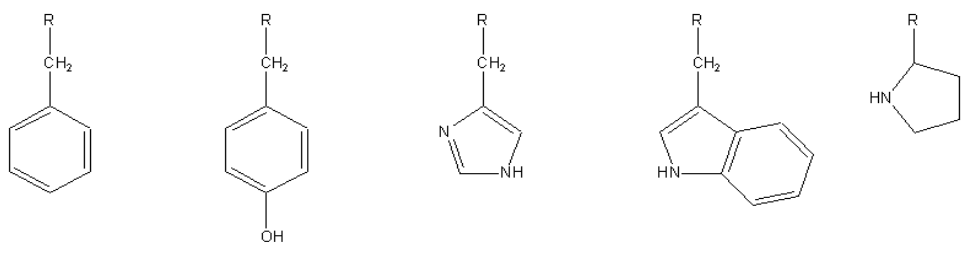
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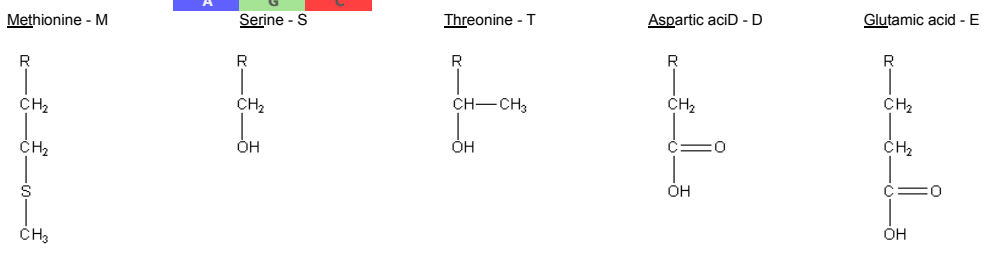
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