

**Source:** [\[KBe2020bio101refMacromolecules\]](#)

## CHONPS

- Carbon
  - Hydrogen
  - Oxygen
  - Nitrogen
    - amino acid backbone
    - **Where does it come from?**
      - Nitrogen ( $N_2$ ) are abundant in the atmosphere.
      - However, neither plants nor animals can use the nitrogen in the air.
      - Get nitrogen from eating things
        - Plant fertilizer
        - Manure?
        - Bacteria!
  - Phosphorus
  - Sulfur
    - In amino acids
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