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# CHEMICAL ROLES

- Transducer
- Catalyst, enzyme , substrate
- solute , solvent
- reagent , reactant
- product , by product
- Ion, cation , anion
- acid , base , neutral

## QUANTUM ROLE

- energy state of atom and electrons

## BIOCHEMICAL ROLE

- Growth factors
  - Active Structure , which acts
    - natural
    - artificial
    - Cellular structures
      - animate , moving
        - Vegetative role
        - cognitive role
        - Informative roles
          - messenger
            - chemical messenger
            - neurotransmitters
            - primary messenger
            - secondary messenger
  - Molecular Structures
    - general names
      - ligand
    - agonist
      - excitation , Stimulation
    - Antagonist
      - Inhibition , block
      - [Depression](#)
- Passive structure , on which it acts
  - Molecular Structures
    - Receptors
      - sensory receptors
      - membrane receptors
    - sensors
  - Cellular structures
    - dead , immovable

- Third agent
  - helper molecules
  - factors
- Modes
  - replacement
- cause
  - Signal , stimulus
- End
  - purpose
    - harm
      - cytotoxic
      - toxins
    - protection
      - antigen
      - antibodies
- Means

## APPOSITIVE ROLES

- Possessions whether separable or inseparable either quantitative or qualitative
  - Inalienable structures
    - Organelles , [cell](#) membrane
    - nucleus
  - Alienable structures
    - SECRETIVE
- Interdependent
  - content to container relationship
- Transmissive
  - GENETIVE , HEREDITARY , GENETIC
  - REPRODUCTIVE
- KINSHIP
- CREATION

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