Erwin Chargaff
① composition of DNA varied species to species (in amounts of A, C, T, G)
② #A = #T and #C = #G

- in 1953, Watson & Crick proposed a structure
  → structure revealed how DNA could be replicated or make proteins
- 2 DNA strands run antiparallel and are complementary
  → can serve as templates for one another
- bases stack
- hydrogen bond: interaction between covalently bonded electropositive H atom on donor group and lone pair of unbonded e⁻ on acceptor group

A---T C---G

- there are other acceptor groups on the bases
  → H bond with [illegible] → recognition
- major & minor grooves in double helix
  → [illegible] other molecules bind/recognize
- base stacking [illegible] stability