W-GB General Biology Week 8 10/26

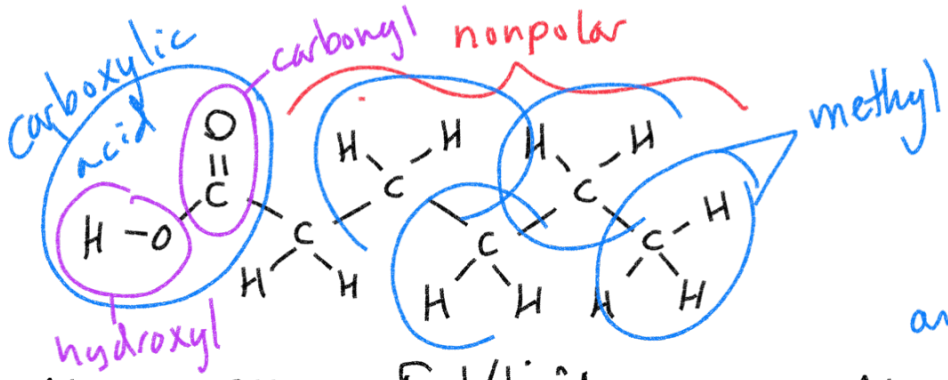
Hydrogen Peroxide H_2O_2

Free radicals ⟶ rogue electrons
molecular-level damage

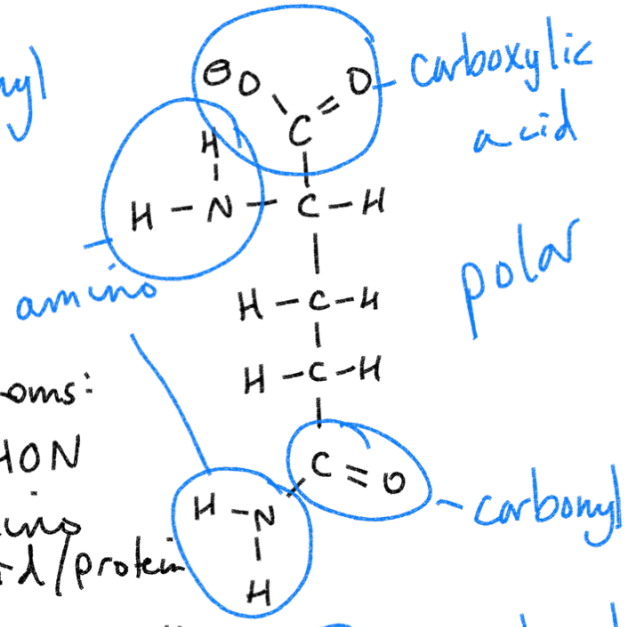
organelle in cell
peroxisomes → release catalase
catalase enzyme that breaks down hydrogen peroxide

hydrogen peroxide
$$2H_2O_2 \xrightarrow[\text{catalyze}]{} \underset{\text{water}}{2H_2O} + \underset{\text{oxygen}}{O_2}$$

enzyme → catalyze "accelerate" the rate of a reaction

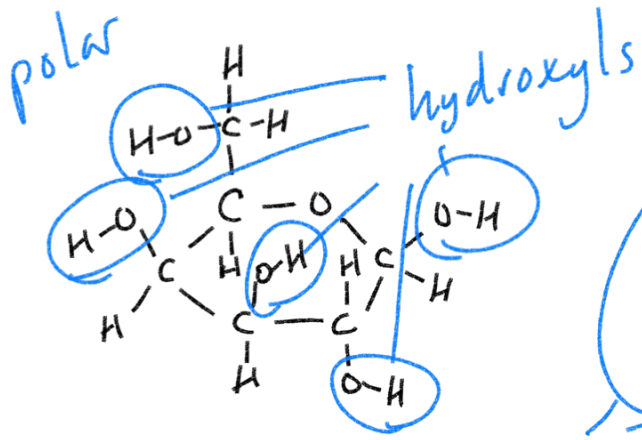


Atoms: CHO Fat/lipid



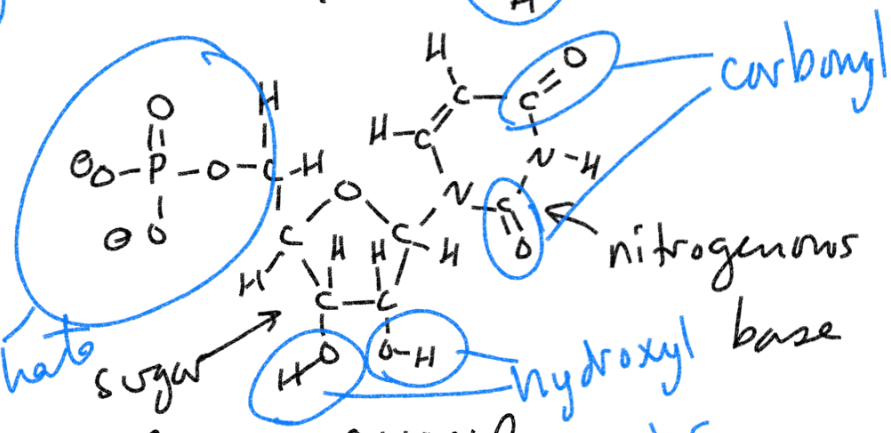
Atoms: CHON

Amino acid/protein



Atoms: CHO

carbohydrate



Atoms: CHONP

nucleic acid