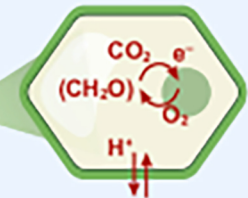
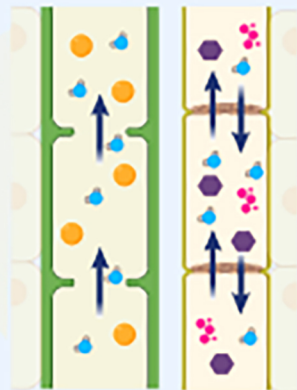


Leaf surface
 Water
 Carbonic acid
 Ultraviolet light



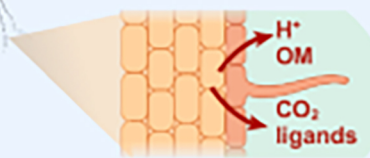
Cell
 Protons
 ROS



Xylem
 Water
 Minerals

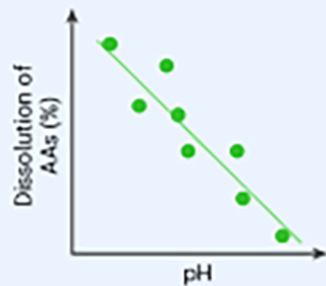
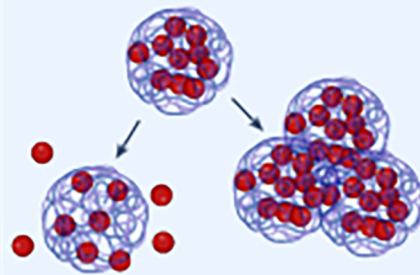


Phloem
 Water
 Sucrose
 Amino/
 nucleic acids

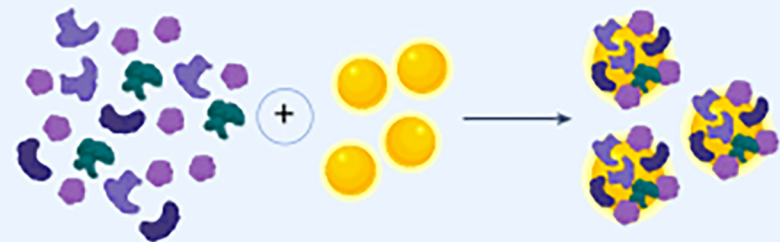


Root surface and mucilage
 Organic
 compounds
 Protons

Dissolution/precipitation



Corona formation



Plant biomolecules

Controlled release

