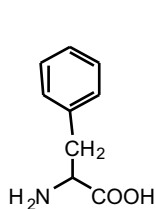
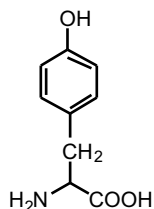


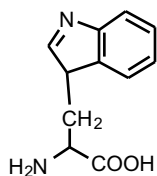
Supplementary Figure 1



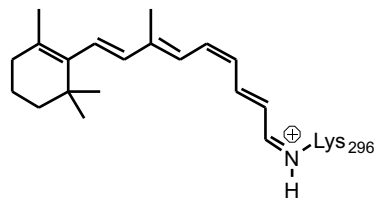
Phenylalanine



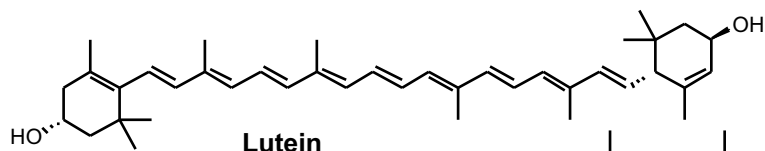
Tyrosine



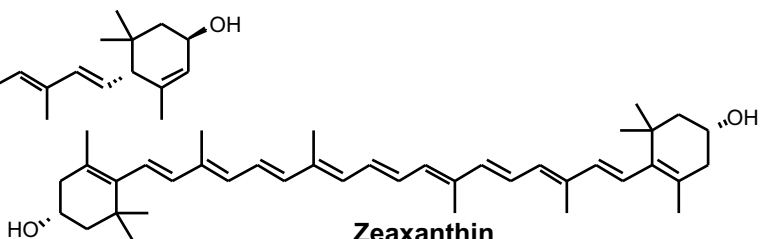
Thryptophan



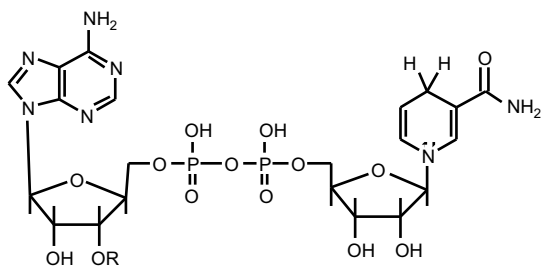
11-cis-Retinal bound to opsin



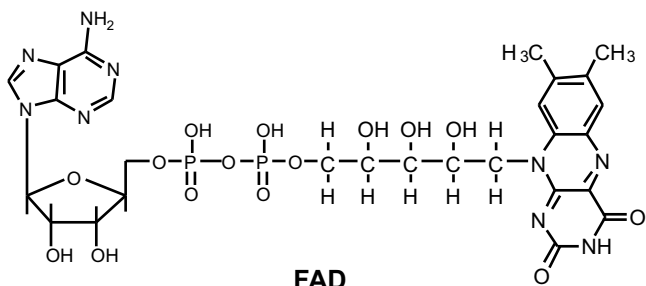
Lutein



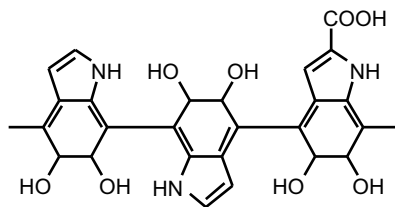
Zeaxanthin



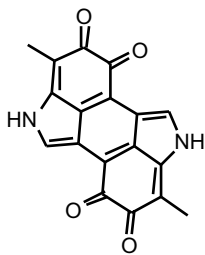
NADH R- phosphate (NADHP)



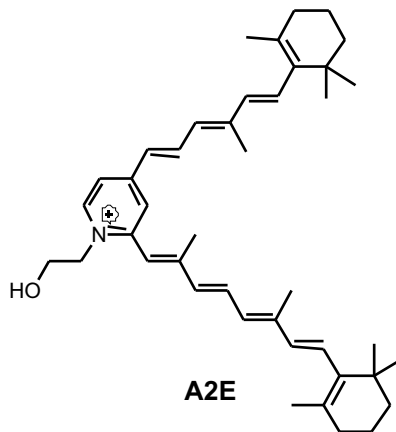
FAD



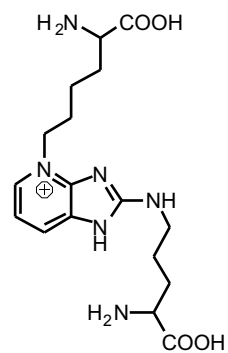
part of Eumelanin



part of Pheomelanin



A2E



Pentosidine

Supplementary Figure 2

