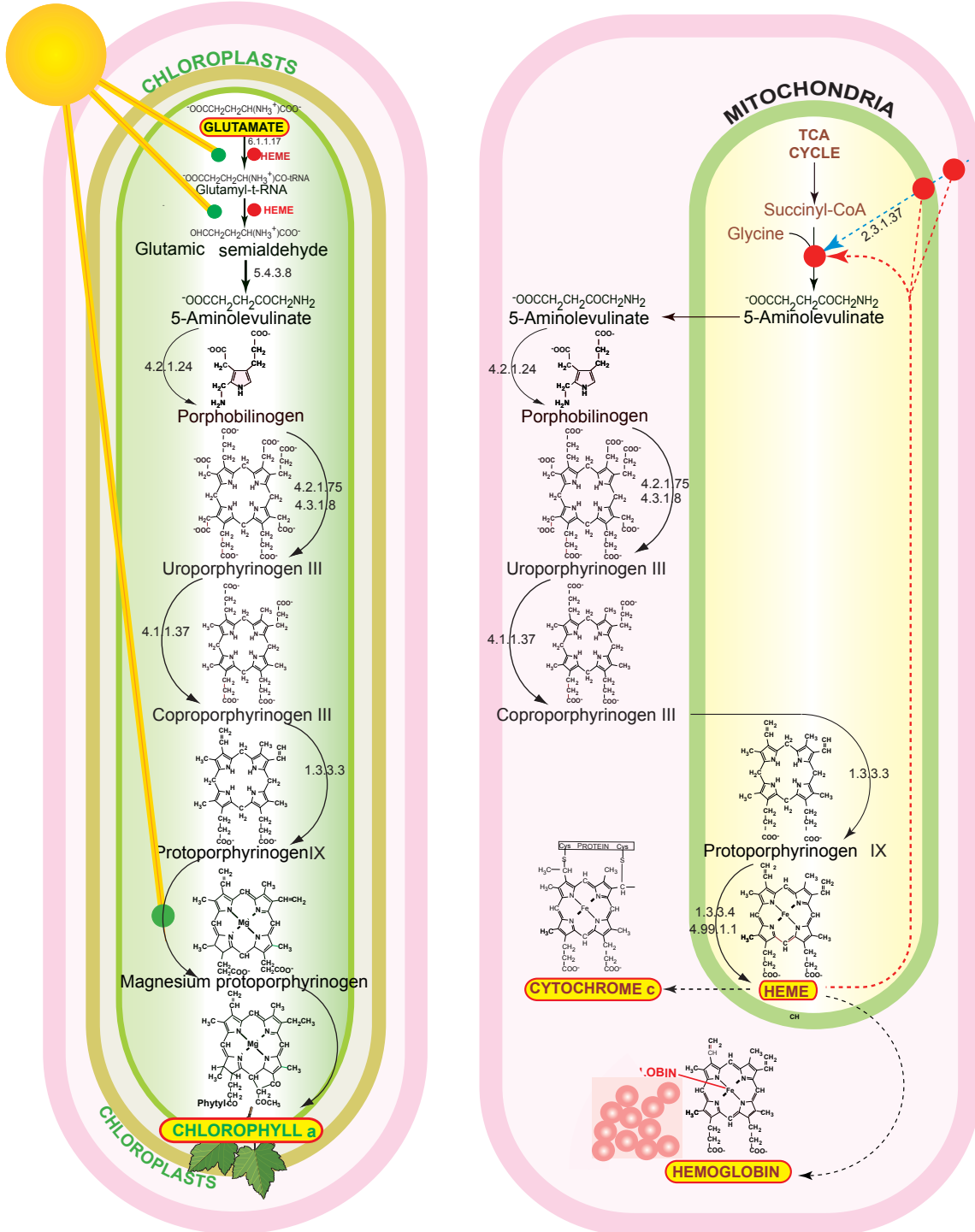


# HEME METABOLISM

## CHLOROPHYLL & HEMOGLOBIN

PLANTS, ALGAE, BACTERIA

MAMMALS, BIRDS, BACTERIA



### ENZYMES

- |   |  |
|---|--|
| 1.3.3.3 Coproporphyrinogen oxidase                    | 4.2.1.24 Porphobilinogen synthase                  |
| 1.3.3.4 Protoporphyrinogen oxidase                    | 4.2.1.75 Uroporphyrinogen-III synthase             |
| 2.1.1.11 Magnesium-protoporphyrin O-methyltransferase | 4.3.1.8 Hydroxymethylbilane synthase               |
| 2.3.1.37 5-Aminolevulinic acid synthase               | 4.99.1.1 Ferrochelatase                            |
| 4.1.1.37 Uroporphyrinogen decarboxylase               | 5.4.3.8 Glutamatesemialdehyde 2,1-aminotransferase |
|   | 6.1.1.17 Glutamate-t-RNA ligase                    |