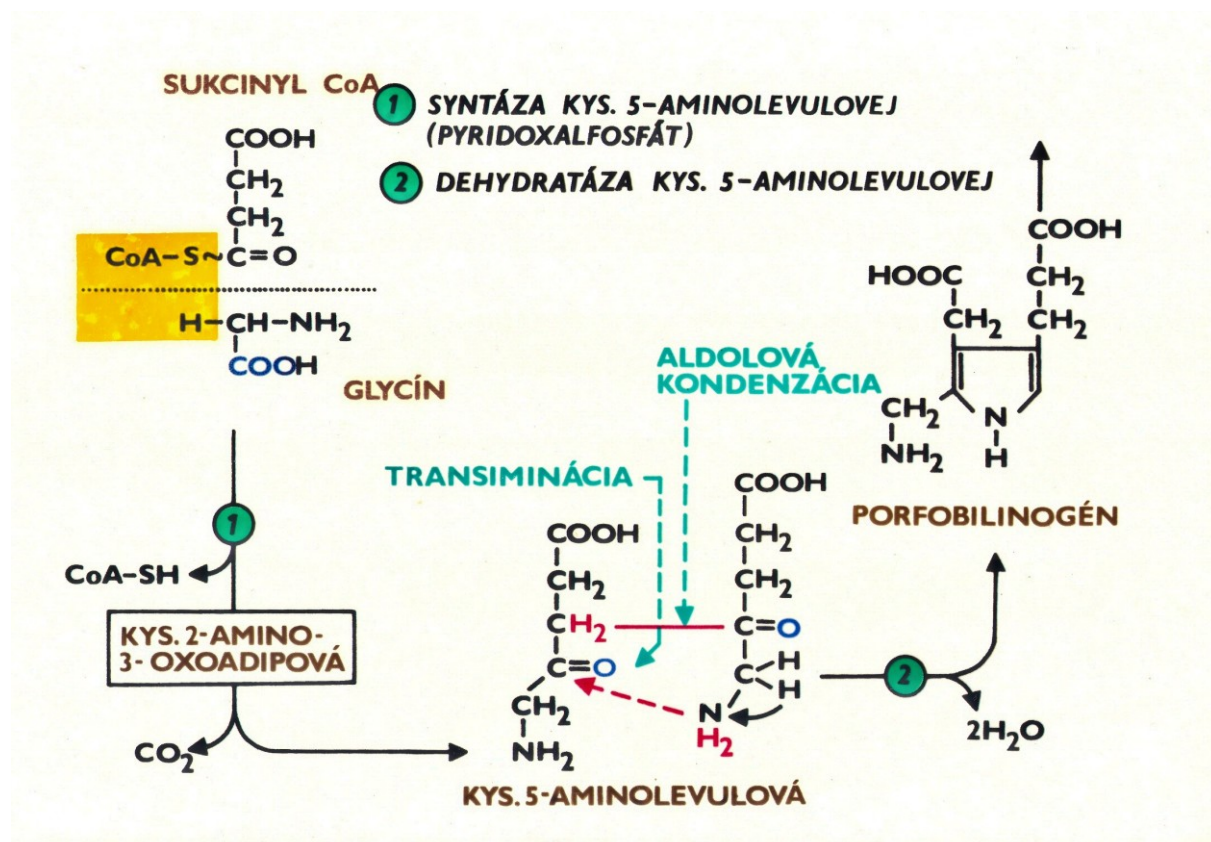
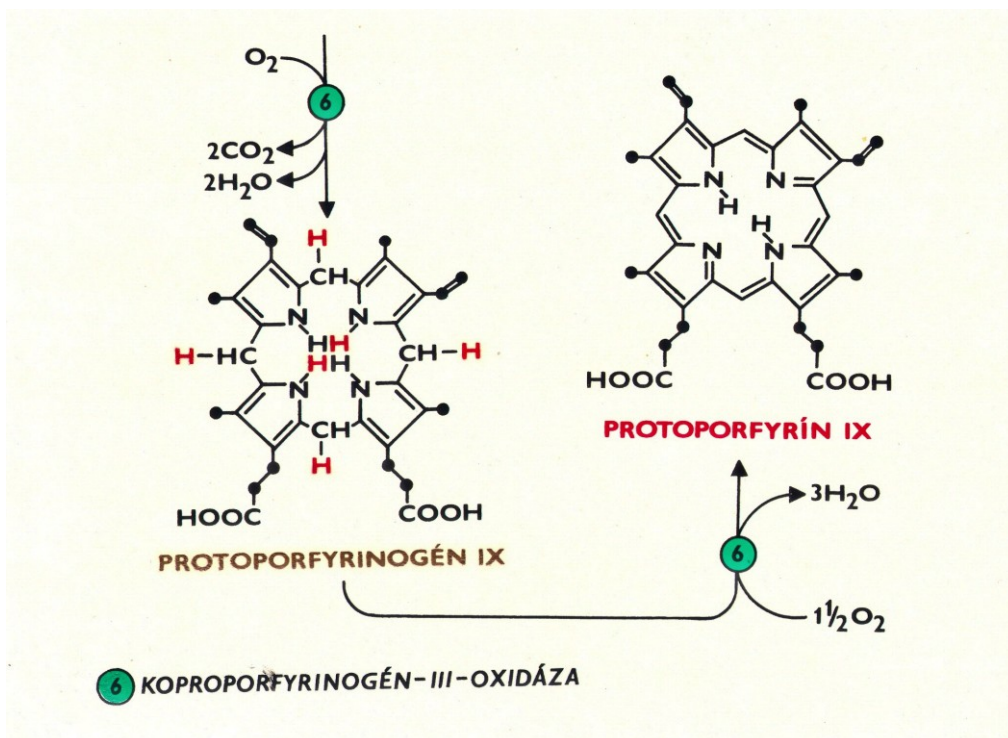
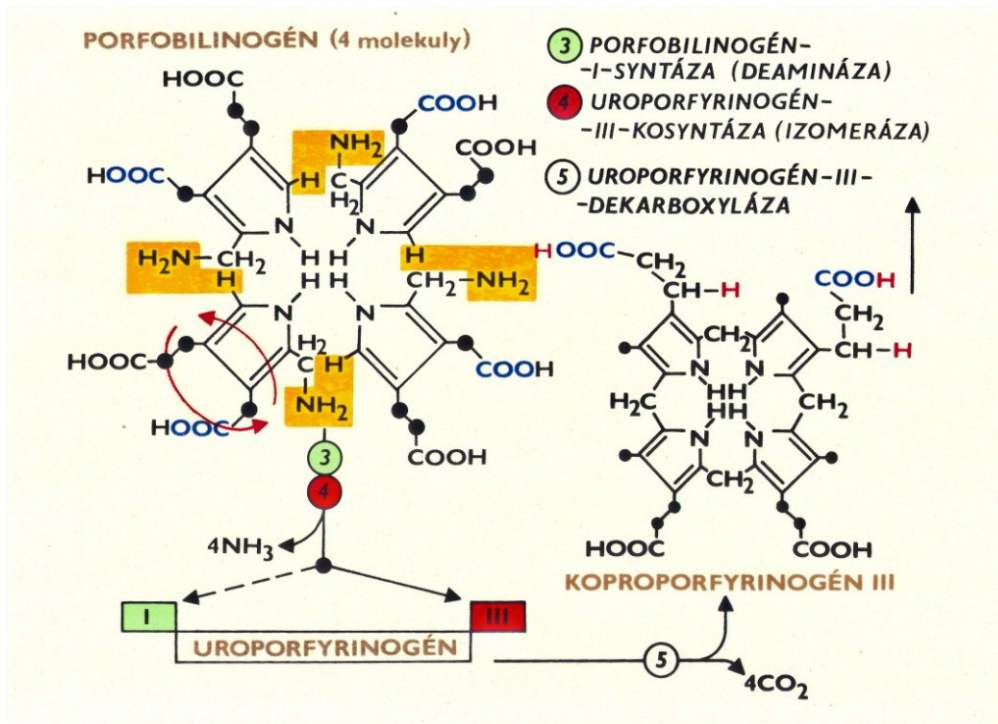
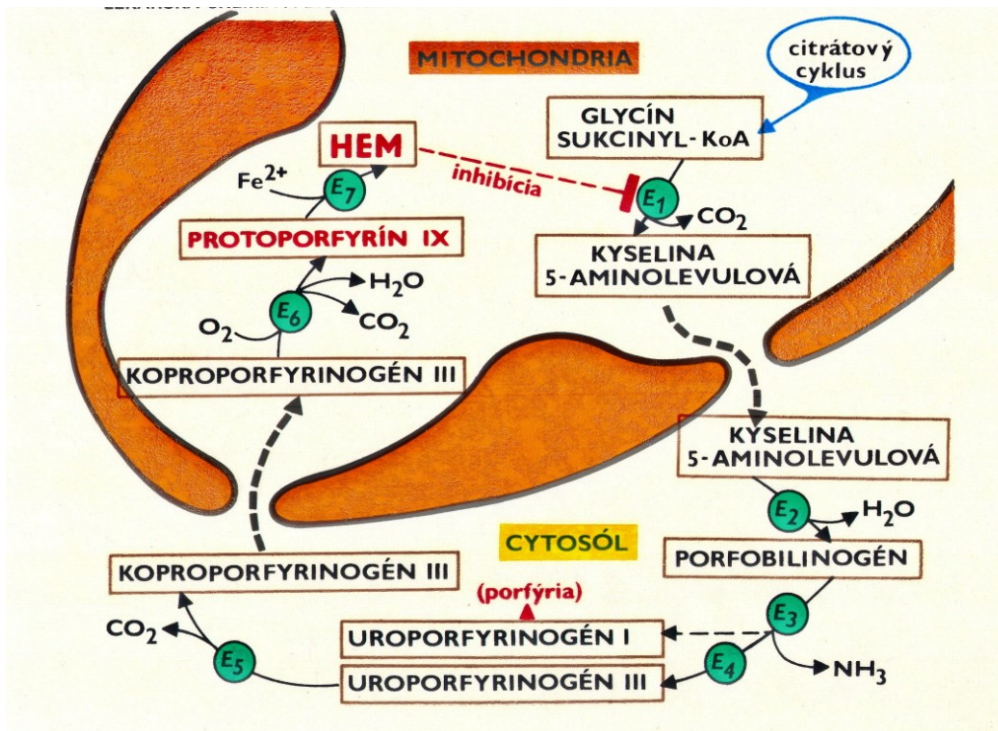
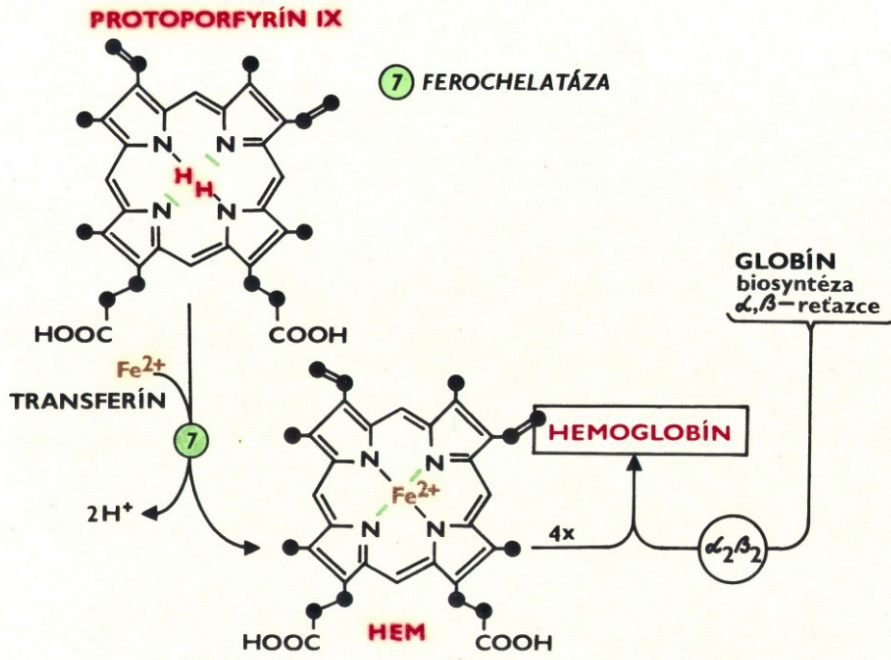


# BIOSYNTÉZA A ODBOURÁNÍ PORFYRINŮ

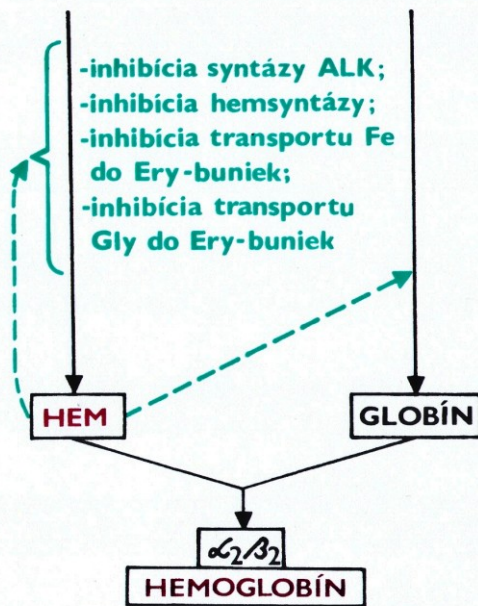
Aktivní sukcinát z TCA







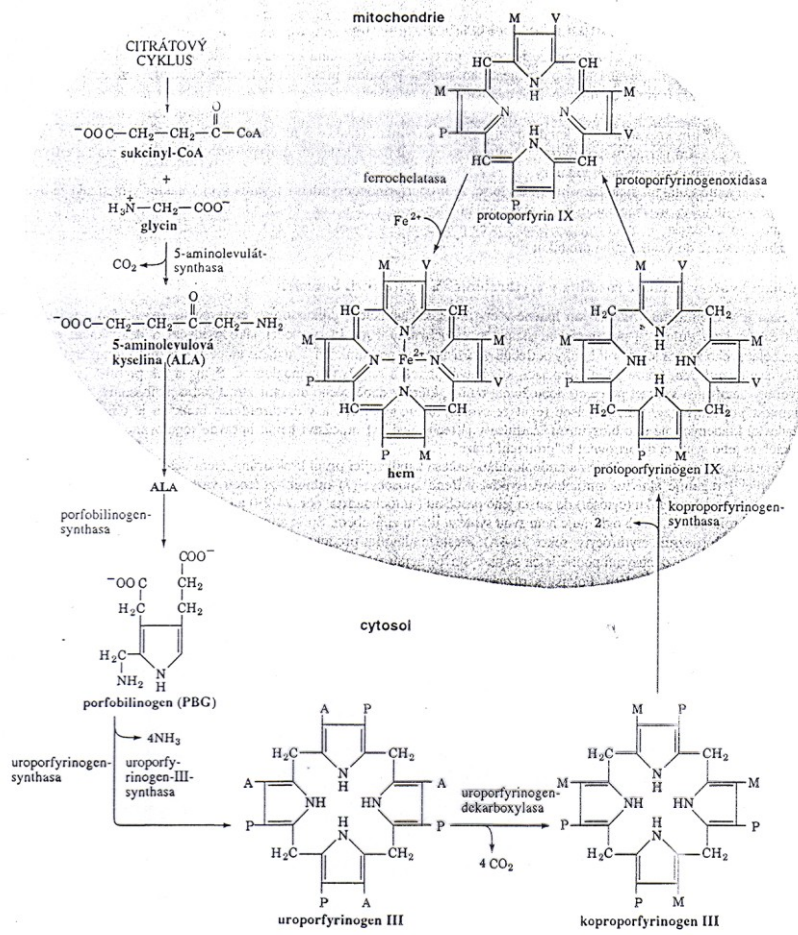
### Regulácia biosyntézy hemu



### REGULUJÚCE FAKTORY BIOSYNTÉZY HEMU

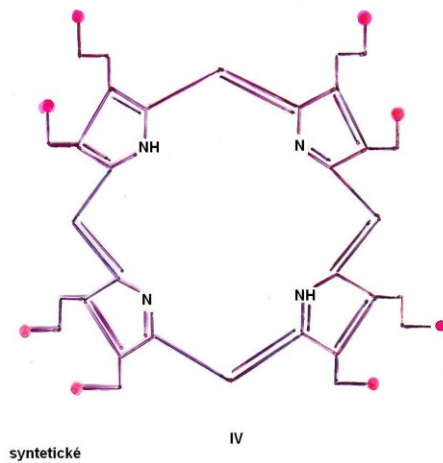
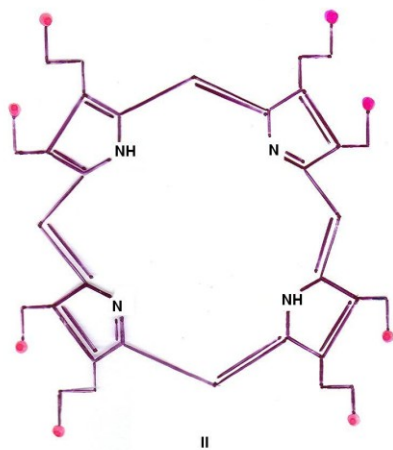
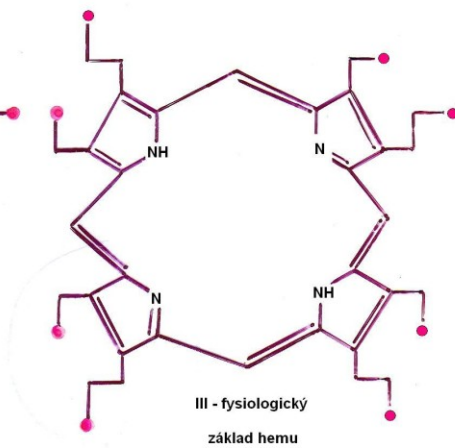
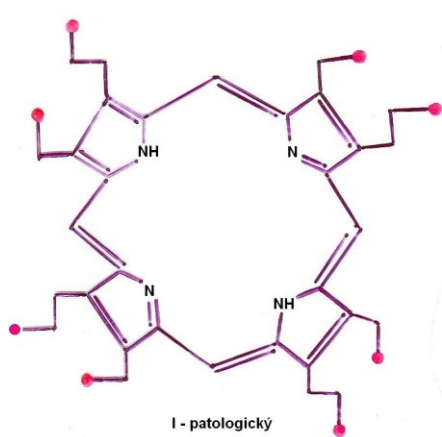
- syntéza enzýmov (ALK-syntáza)
- zmeny v aktivite enzýmov
- intracelulárna lokalizácia enzýmov a ich transport z ribozómov k mitochondriám
- prísun substrátov (príjem Fe, aminokyseliny)
- metabolické - cytoplazmatické a vonkajšie faktory
  - a)  $pO_2$
  - b) elektrónový transport v dýchacom reťazci
  - c) citrátový cyklus
  - d) prítomnosť SH-látok (inhibícia Pb)
  - e) vit. B<sub>2</sub> (pyridoxalfosfát)

# Biosyntéza hemu

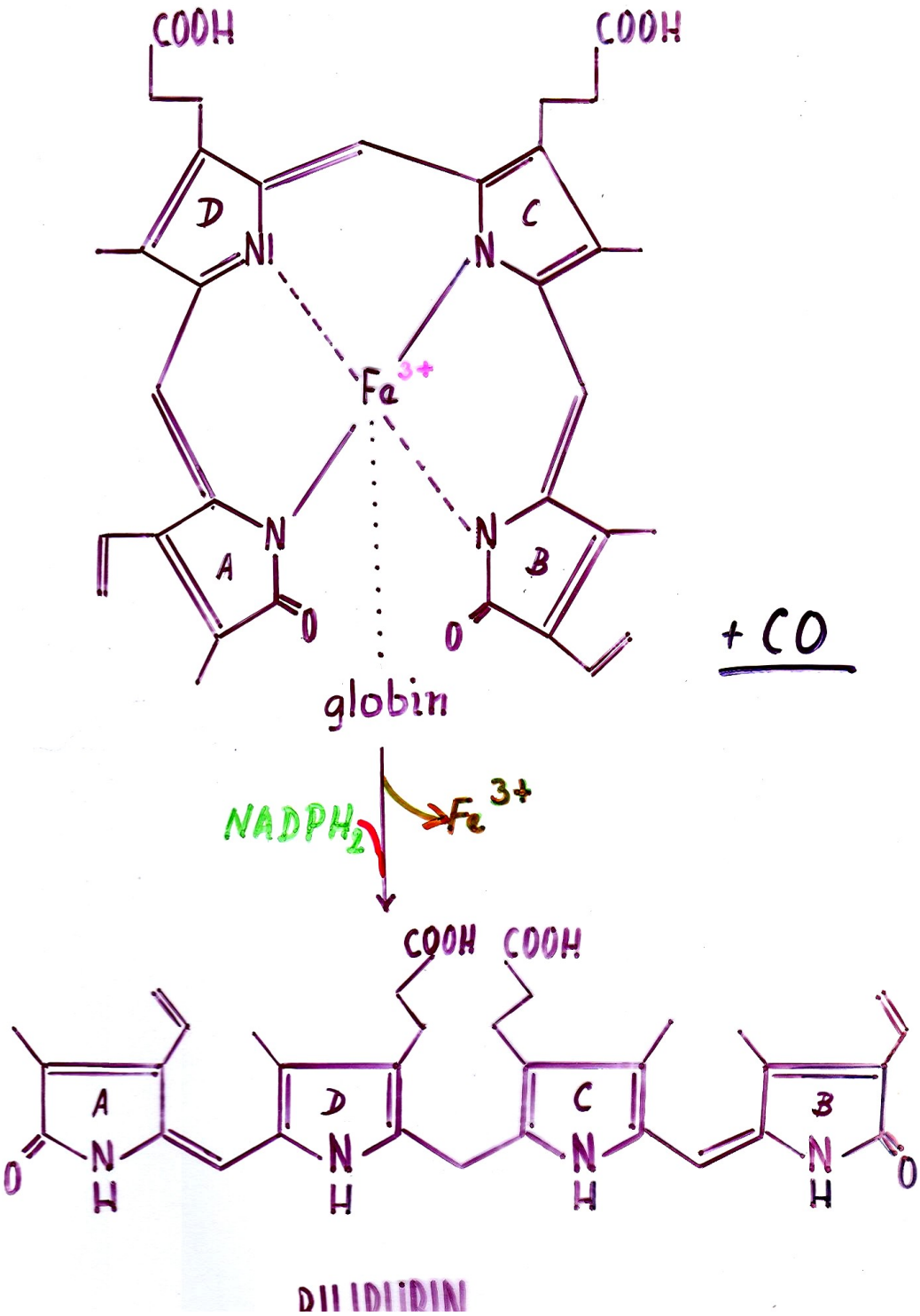


# UROPORFYRINY

● = COOH



Odbourání hemoglobinu a hemu



## Odbourávání hemu

