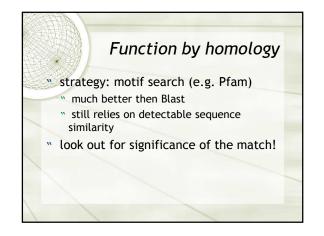
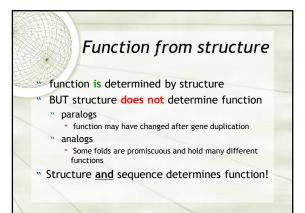
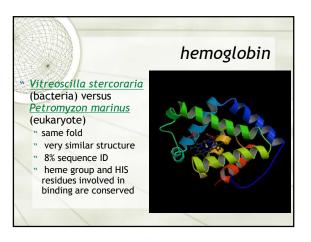


## Function by homology

- \* strategy: Blast, copy and paste
  - add "-like protein" if you feel like
- " Problems
  - " annotation errors in databases
  - " inheritance of errors
  - " "chinese whisper"
  - " a single mutation may make a protein non-functional







## Combining sequence and structure

- compare structures
  - how functional promiscuous is the structure?
- " analyse sequence similarity of related structures to your query sequence
  - \* are functional important residues from proteins with known function conserved in your protein?
- " extend the sequence analysis to complete family
  - " are putative functional residues also conserved evolutionary?

