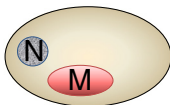


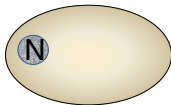
a)

Intracellular structure

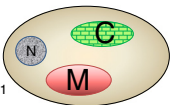
Standard structure of eukarya cell:

- *Homo sapiens*- *Cryptococcus bacillisporus* WM276

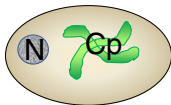
Exception:

- *Microsporidia*

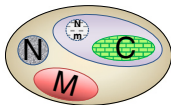
Standard structure of photosynthetic eukarya cell:

- *Micromonas* sp. RCC99- *Arabidopsis thaliana*- *Oryza sativa japonica* group- *Ostreococcus lucimarinus* CCE9901- *Ostreococcus tauri* OTTH0595

Photosynthetic eukarya exception 1:

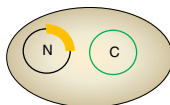
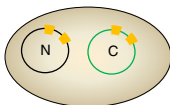
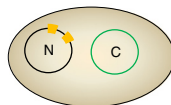
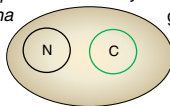
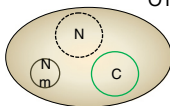
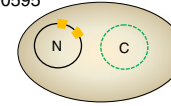
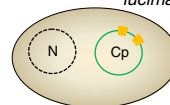
- *Paulinella chromatophora*

Photosynthetic eukarya exception 2:

- *Guillardia theta*

b)

PG gene repartition between cellular genomes

*Micromonas* sp. RCC299*Arabidopsis thaliana**Oryza sativa japonica* group*Ostreococcus tauri* OTTH0595*Guillardia theta**Ostreococcus lucimarinus* CCE9901*Paulinella chromatophora*

Complete genome



unavailable genome



Genome contain a partial PG gene set



Genome contain a complete PG gene-set