

# Phylogénomique des lignées photosynthétiques

Denis Baurain<sup>1,2</sup>,  
Henner Brinkmann<sup>2</sup>, Hervé Philippe<sup>2</sup>

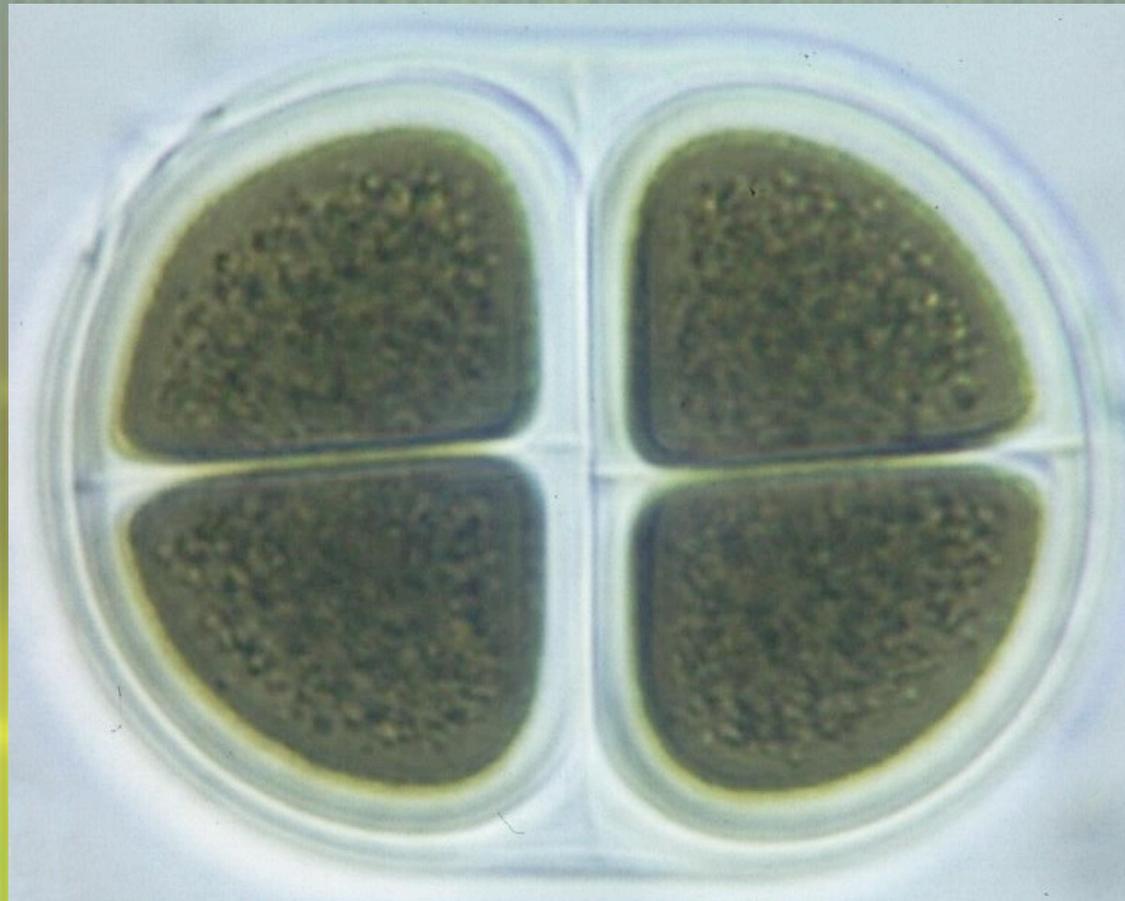
<sup>1</sup>Université de Liège

<sup>2</sup>Université de Montréal

Louvain-la-Neuve, 22 décembre 2006

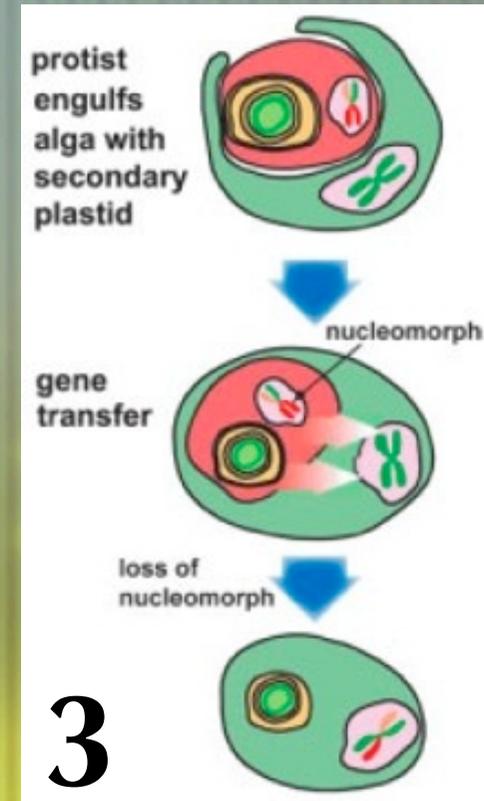
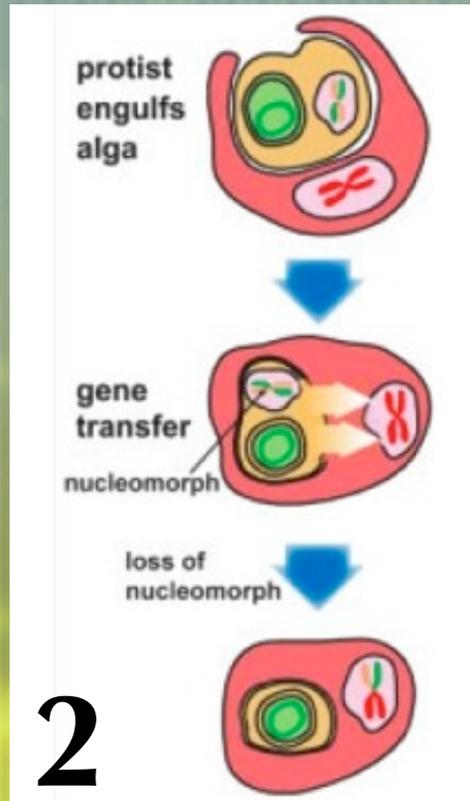
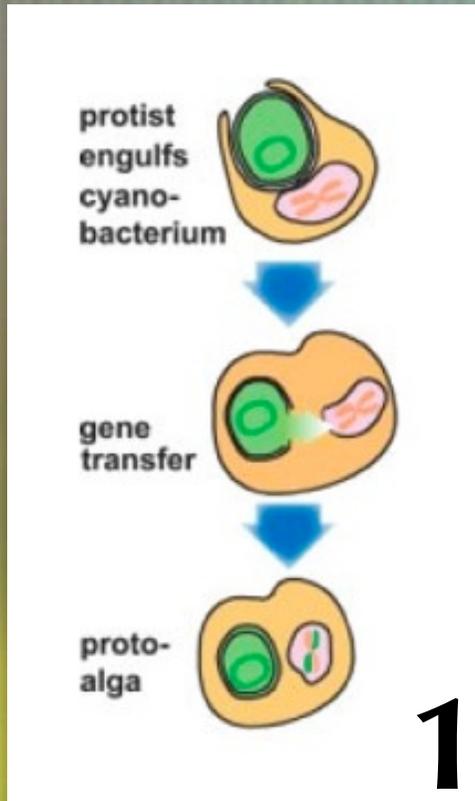


# Endosymbioses chloroplastiques

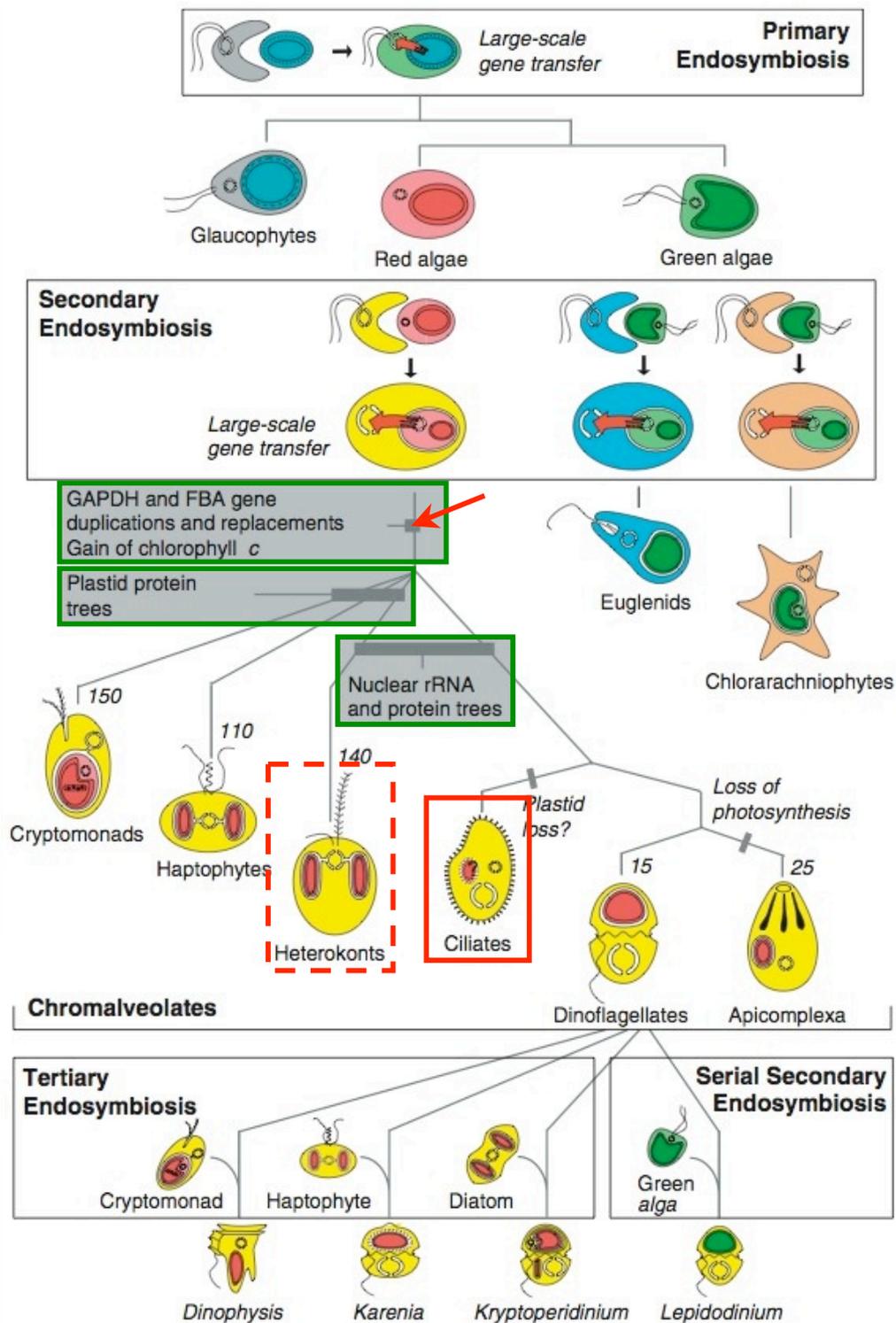


*Chroococcus turgidus*

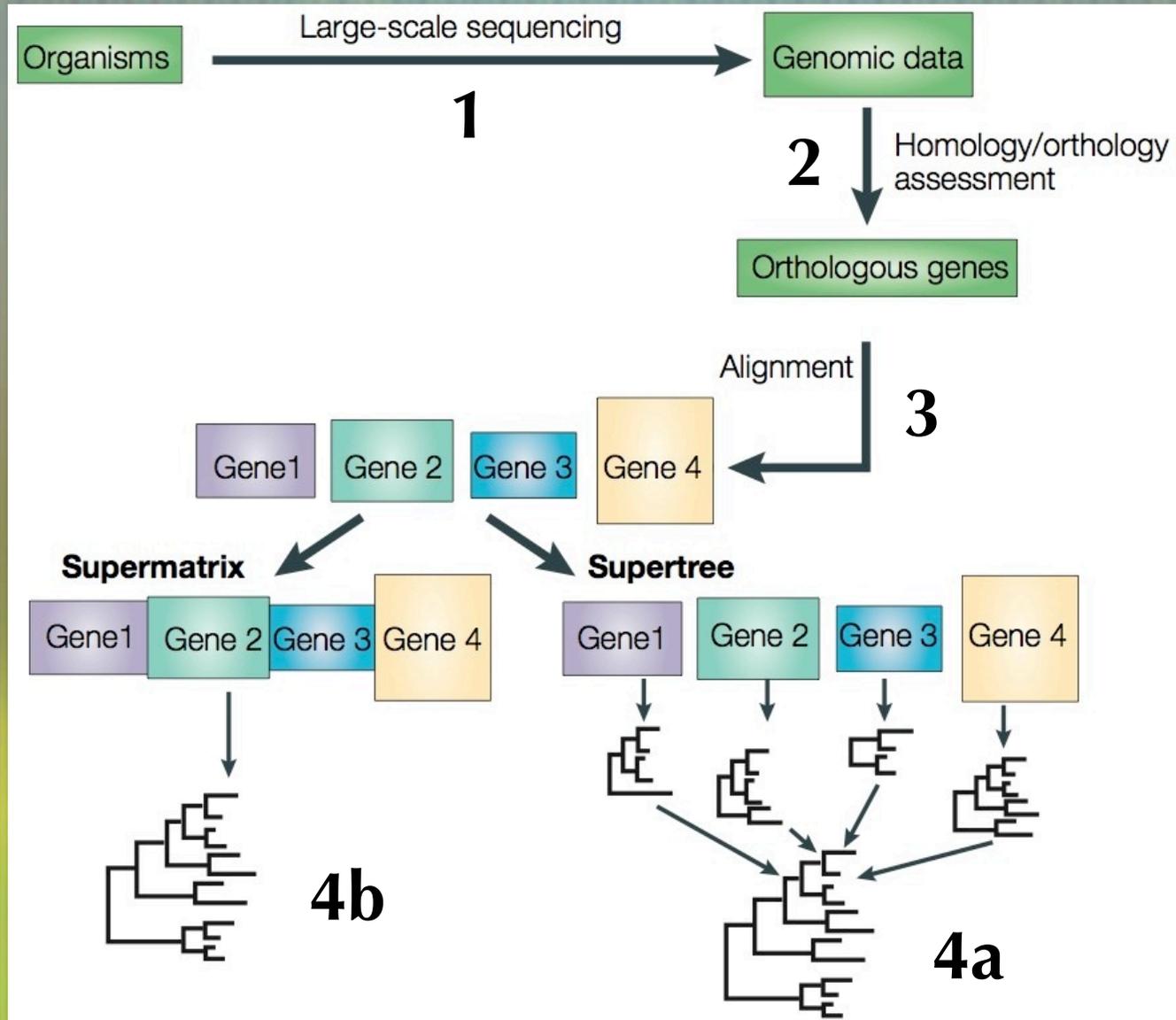
# Endosymbioses chloroplastiques



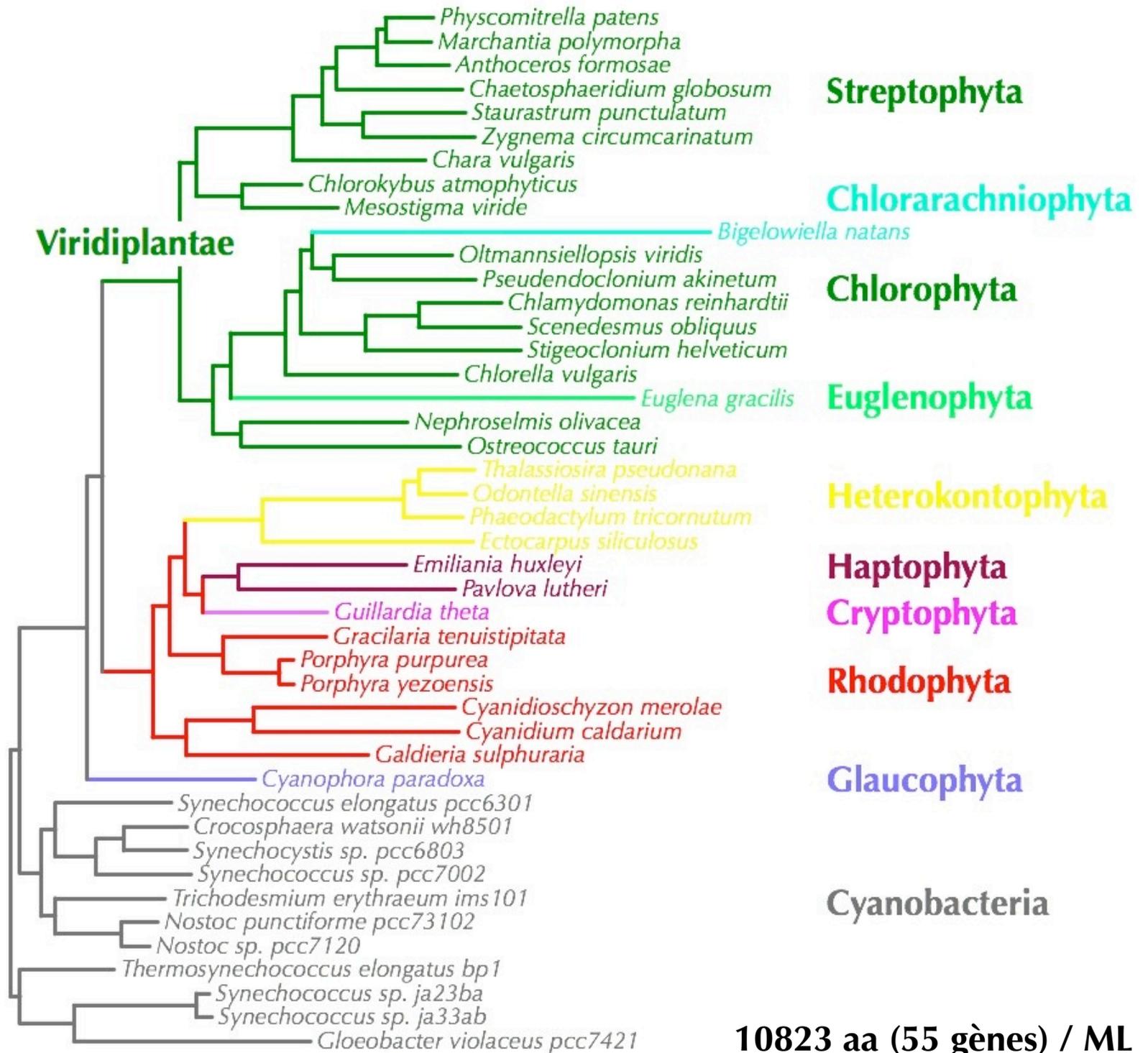
# Chromalveolata



# Phylogénomique



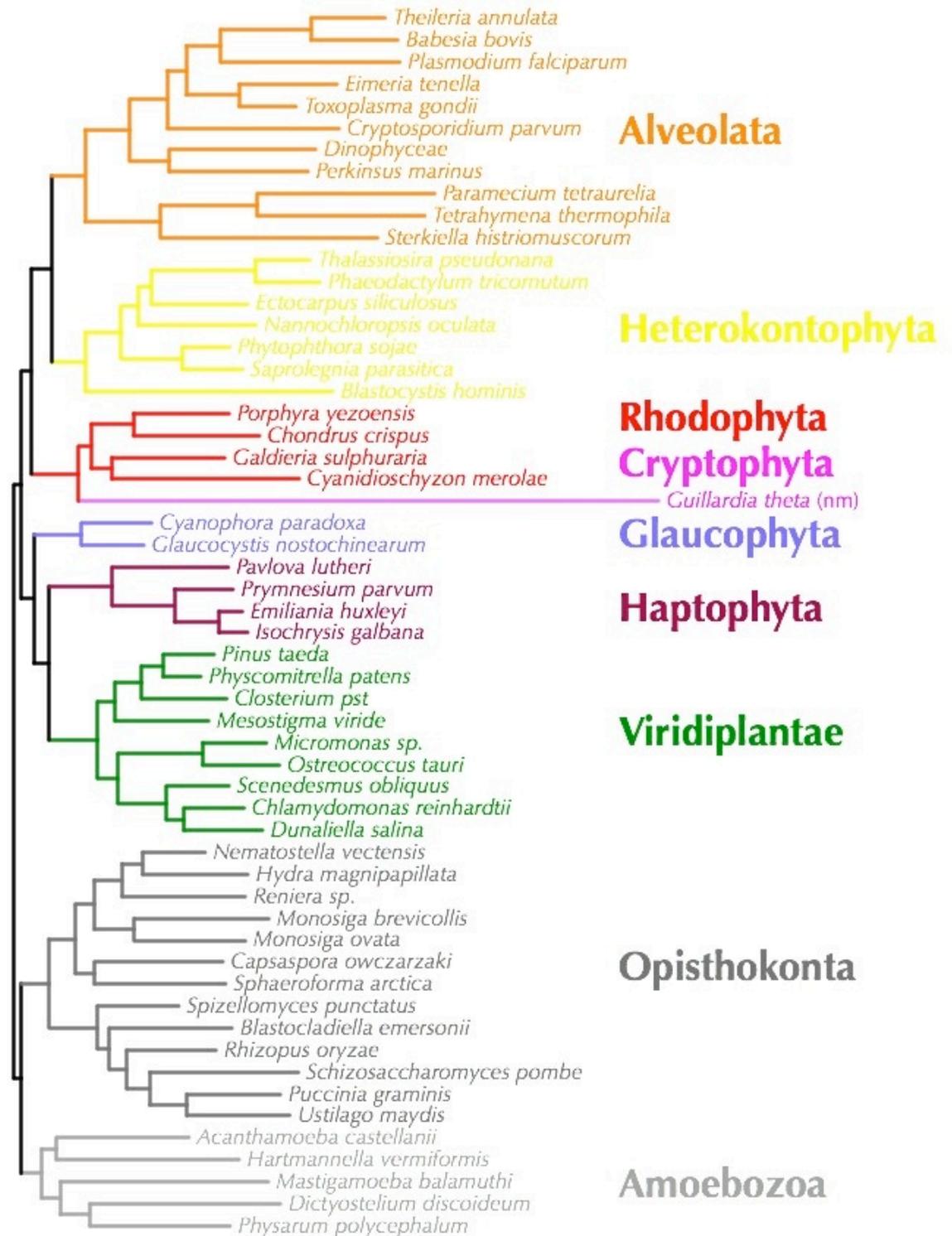
# Phylogénie des chloroplastes



10823 aa (55 gènes) / ML

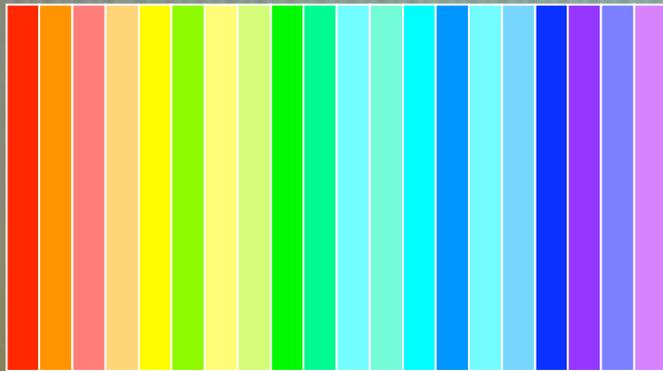
# Phylogénie des cellules hôtes

12776 aa (112 gènes) / ML

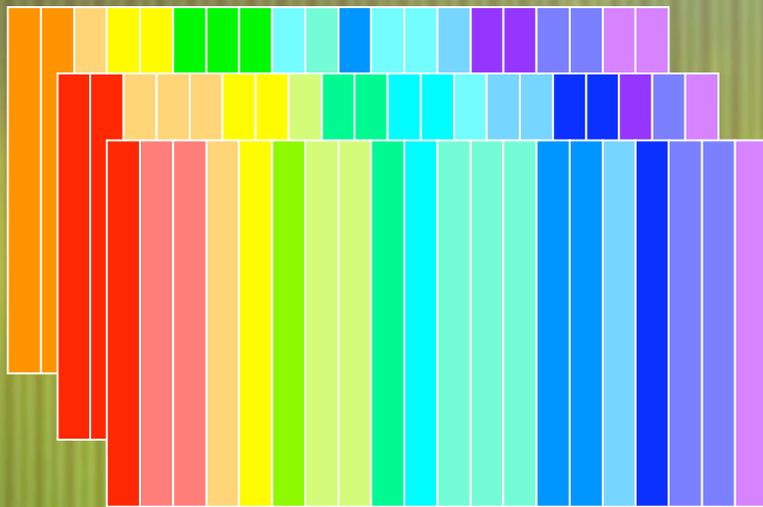


# Robustesse des phylogénies

bootstrap normal

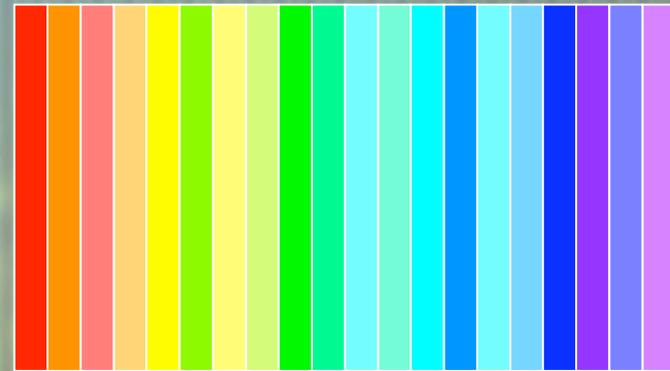


N pos

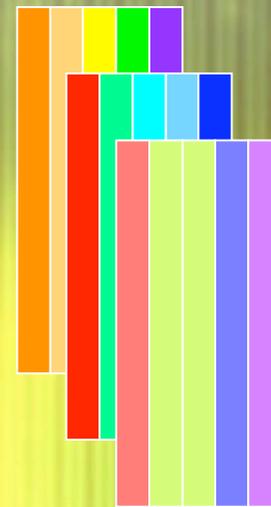


$N \text{ pos} / 100x$

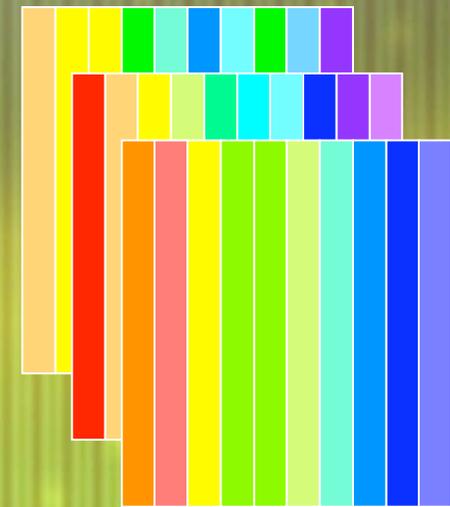
variable length bootstrap



N pos

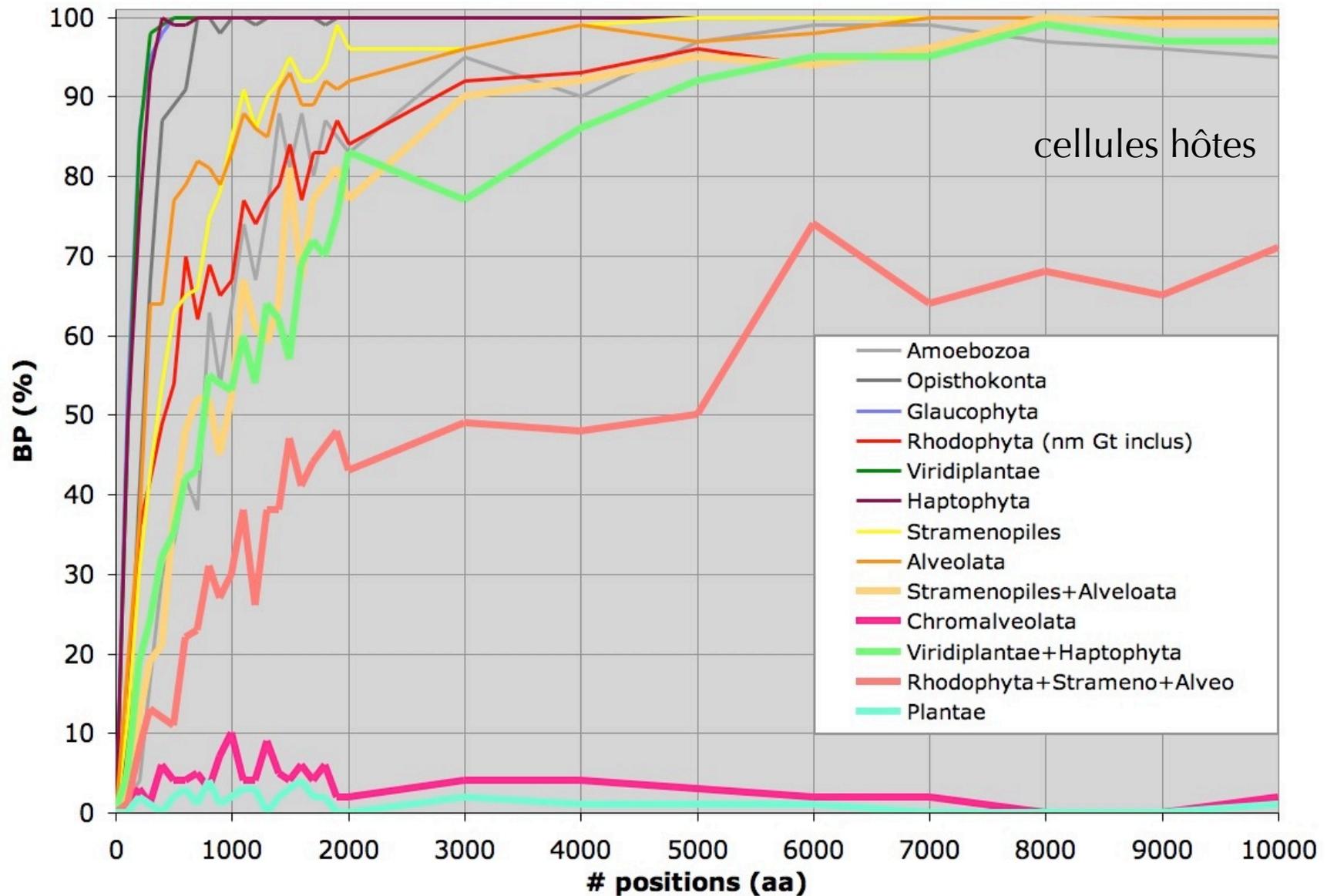


$n1 < N \text{ pos} / 100x$

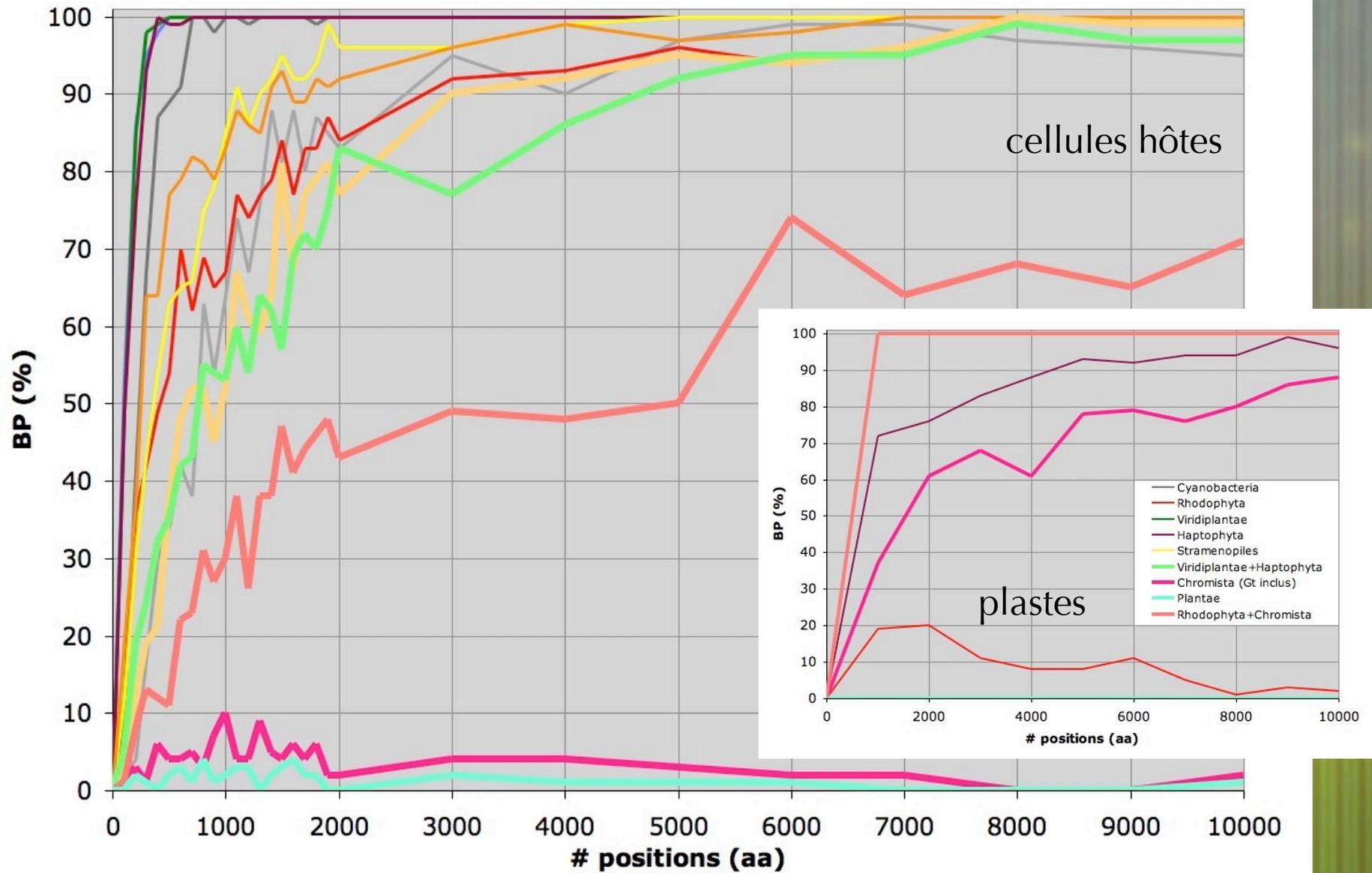


$n2 < N \text{ pos} / 100x \dots$

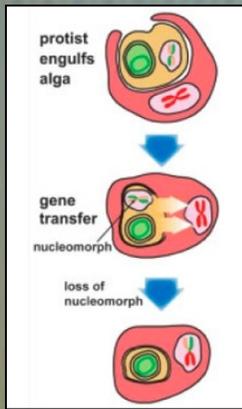
# Robustesse des phylogénies



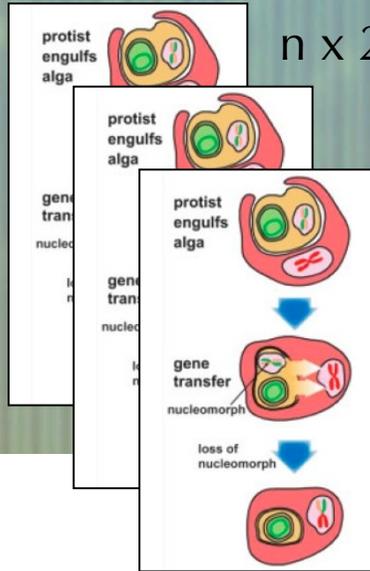
# Robustesse des phylogénies



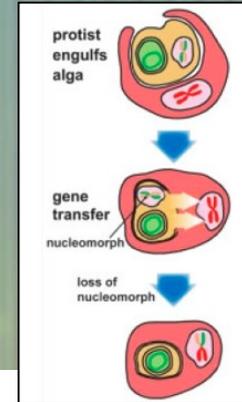
# Scénario alternatif



1 x 2

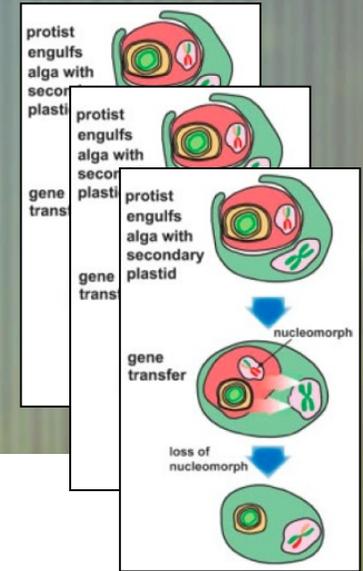


n x 2



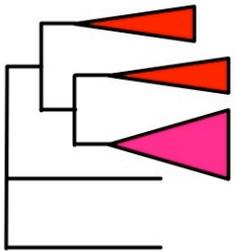
1 x 2

+



n x 3

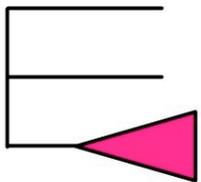
chloroplaste



Rhodophyta

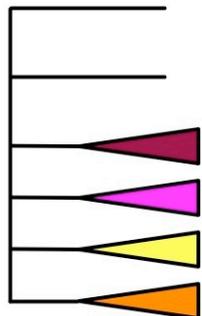
Chromalveolata

cellule hôte



Chromalveolata

cellule hôte



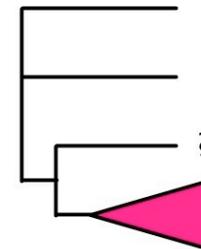
Haptophyta

Cryptophyta

Heterokontophyta

Alveolata

cellule hôte



Chromalveolata

# Remerciements



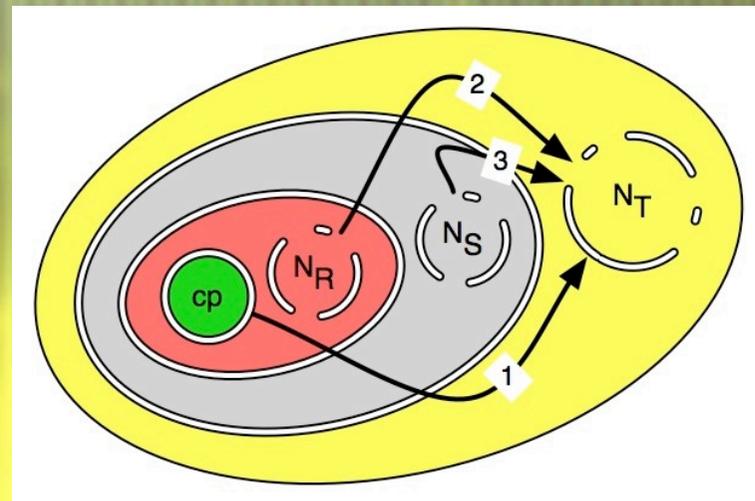
- ✦ Hervé Philippe
- ✦ Henner Brinkmann
- ✦ Naiara Rodriguez-Ezpeleta



- ✦ Vincent Demoulin



- ✦ Nicolas Lartillot



FNRS

Fonds National de la Recherche Scientifique