

Evolusi dan taksonomi tumbuhan dasar



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Kuliah Lapangan
Taman Nasional Gunung Palung
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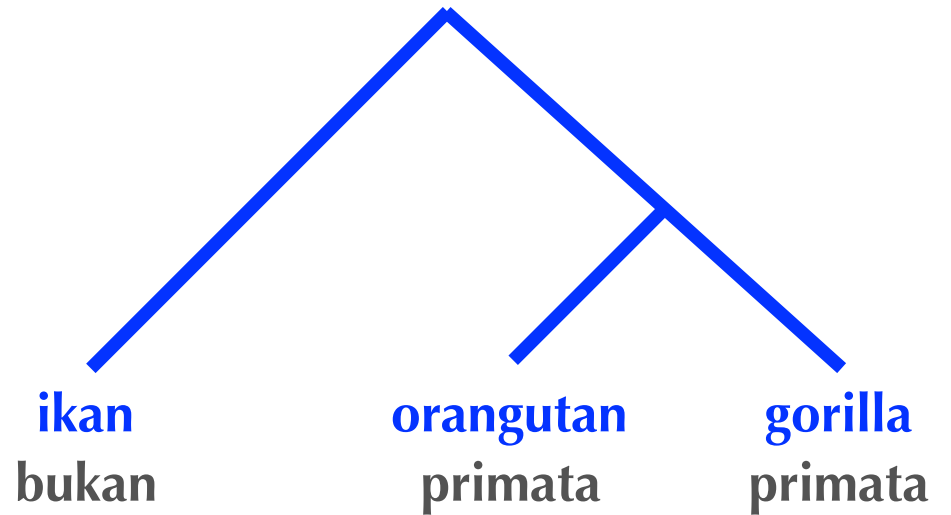
ikan



gorilla



orangutan





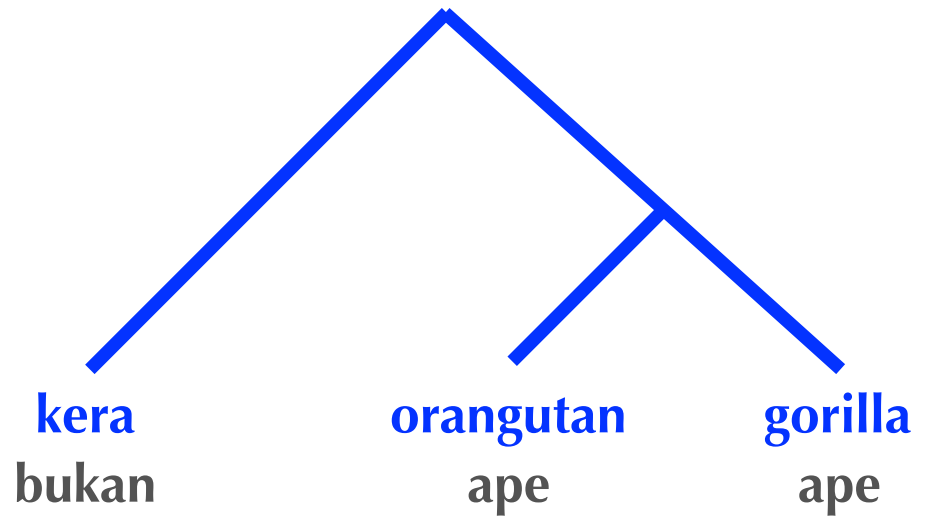
gorilla



kera



orangutan





burung



babi



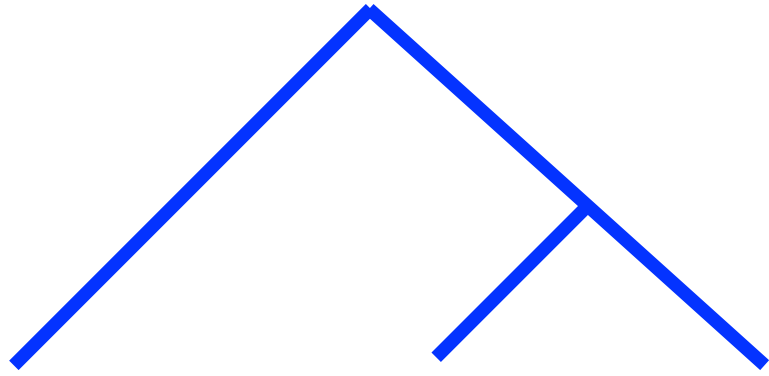
kelelawar



burung
bukan

kelelawar
mammal

babi
mammal





agathis



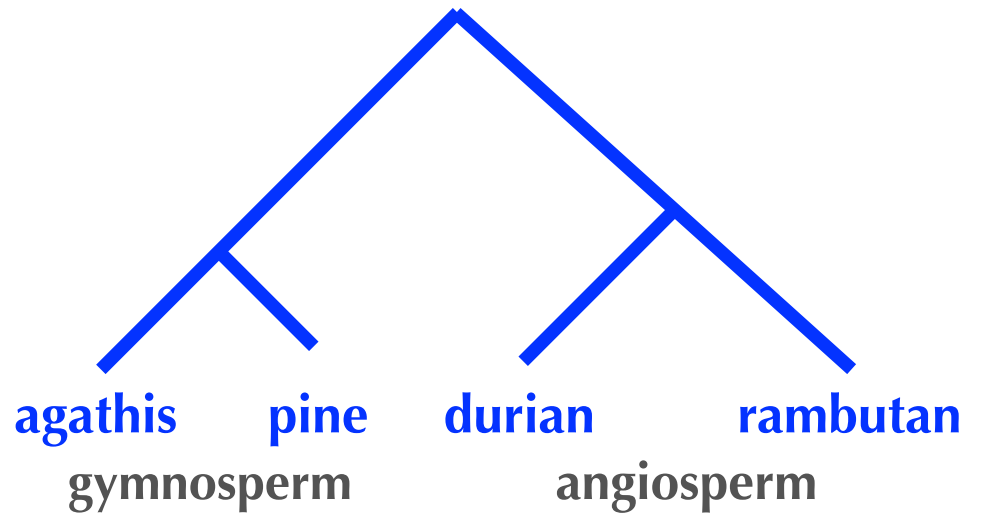
durian



rambutan



pine



Dua kesimpulan dasar

1. Kalau kita ingin mengerti (atau menghitung, atau meneliti) sesuatu, kita perlu tahu namanya (atau kasih nama unik).

2. Ciri-ciri sangat membantu untuk:
 - a) membedakan yg tidak sama
 - b) gabungkan yg sama

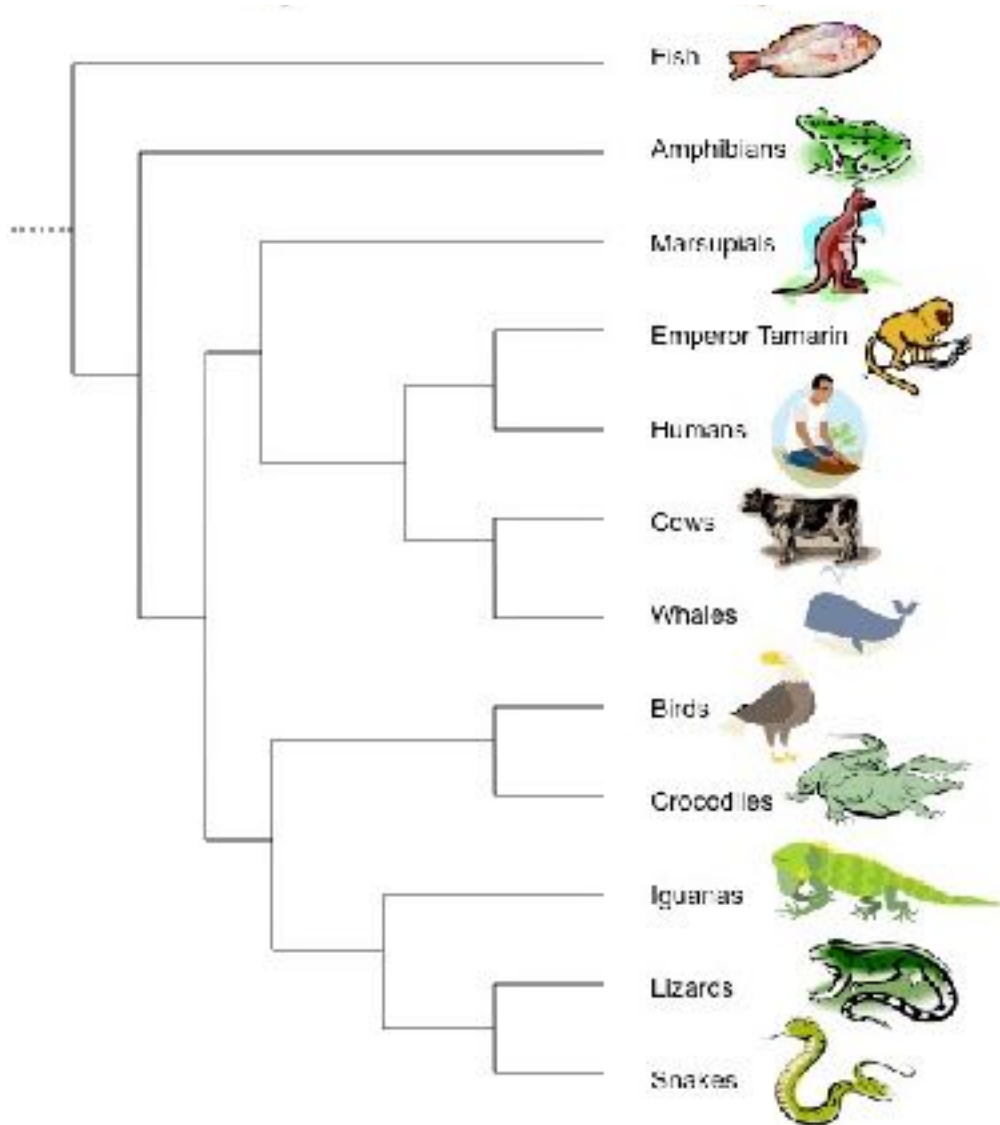
dua-duanya berdasarkan teori yg sangat sederhana...

...Evolusi

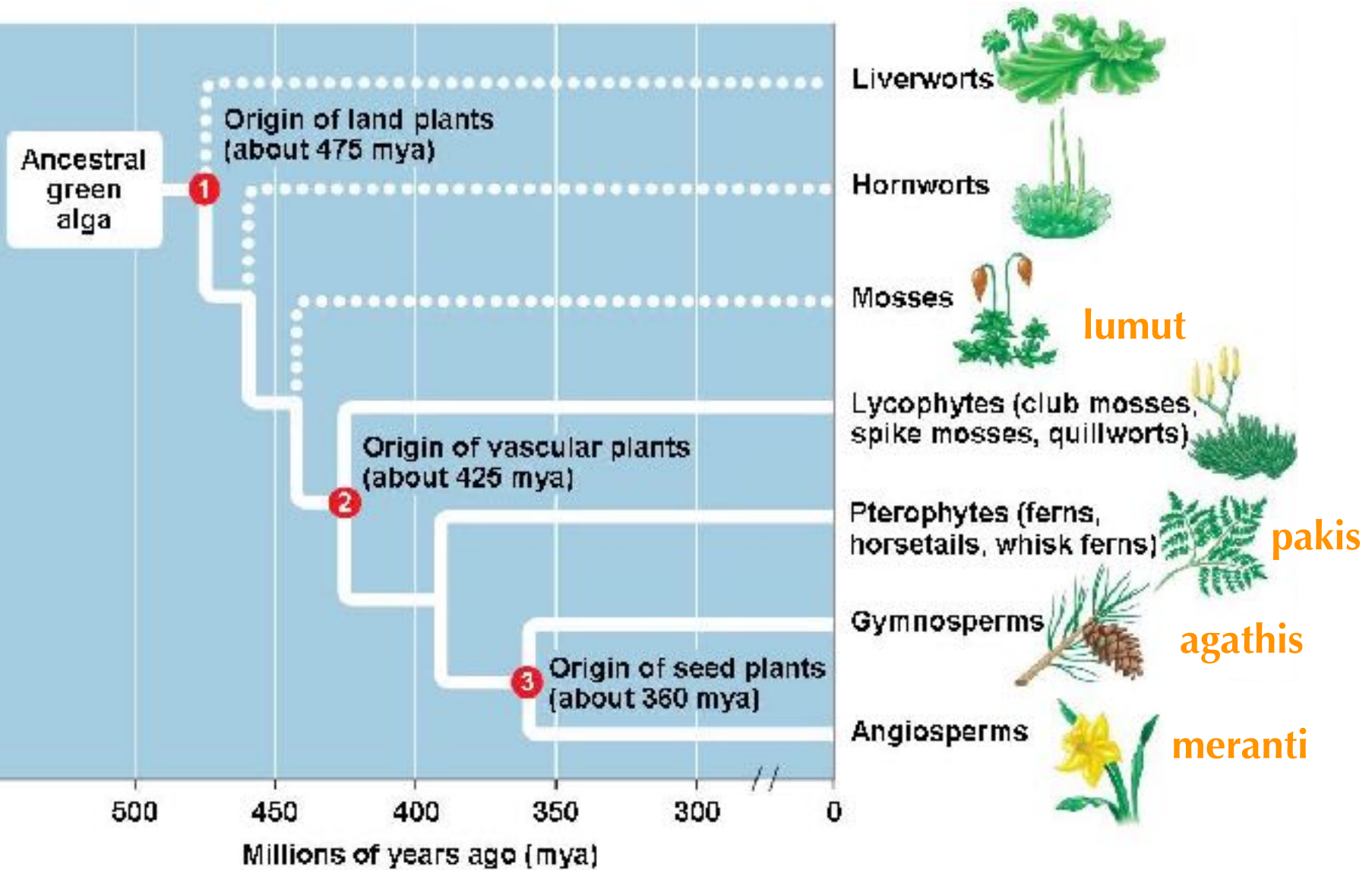
(sederhana, tapi sangat penting)

1. Evolusi adalah proses yg buatkan semua di dunia alam
2. Evolusi sangat diperlukan untuk mengerti dunia alam
3. Pengertian evolusi membantu kita untuk
 - a) mengerti sistem nomemclature
 - b) menegerti ciri-ciri

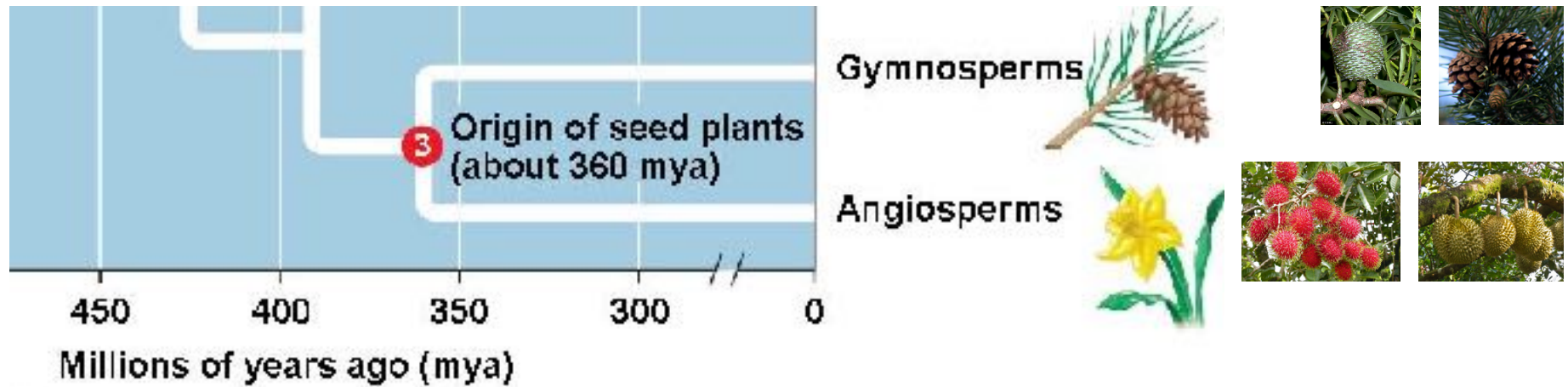
Phylogeny vertebrat



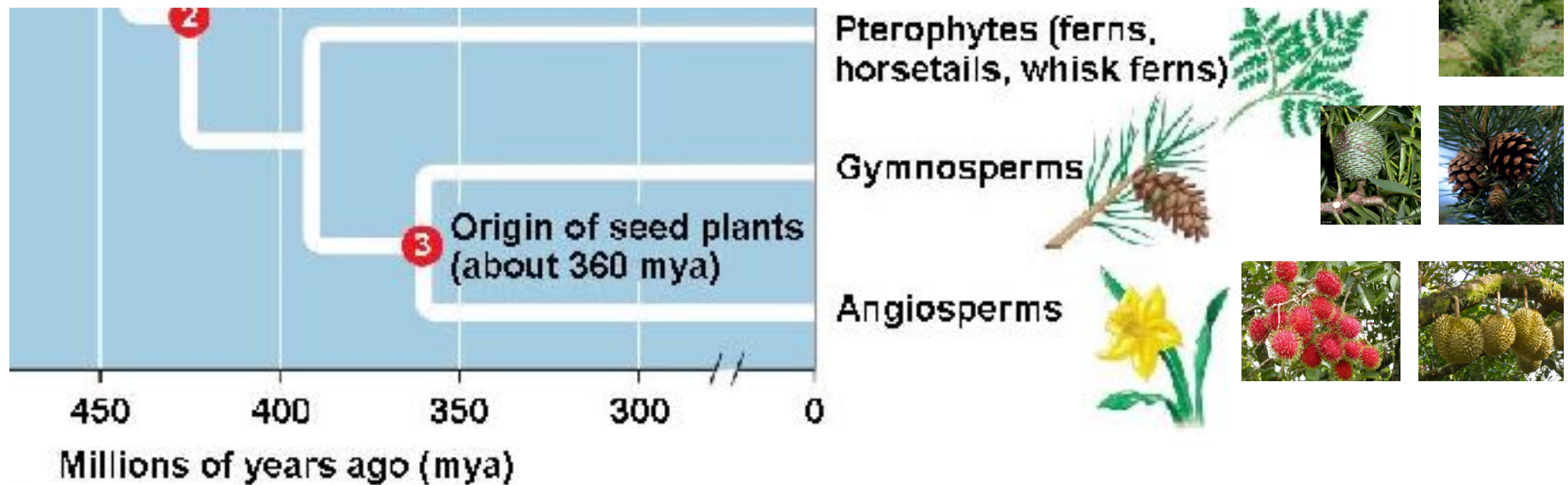
Phylogeny tumbuhan



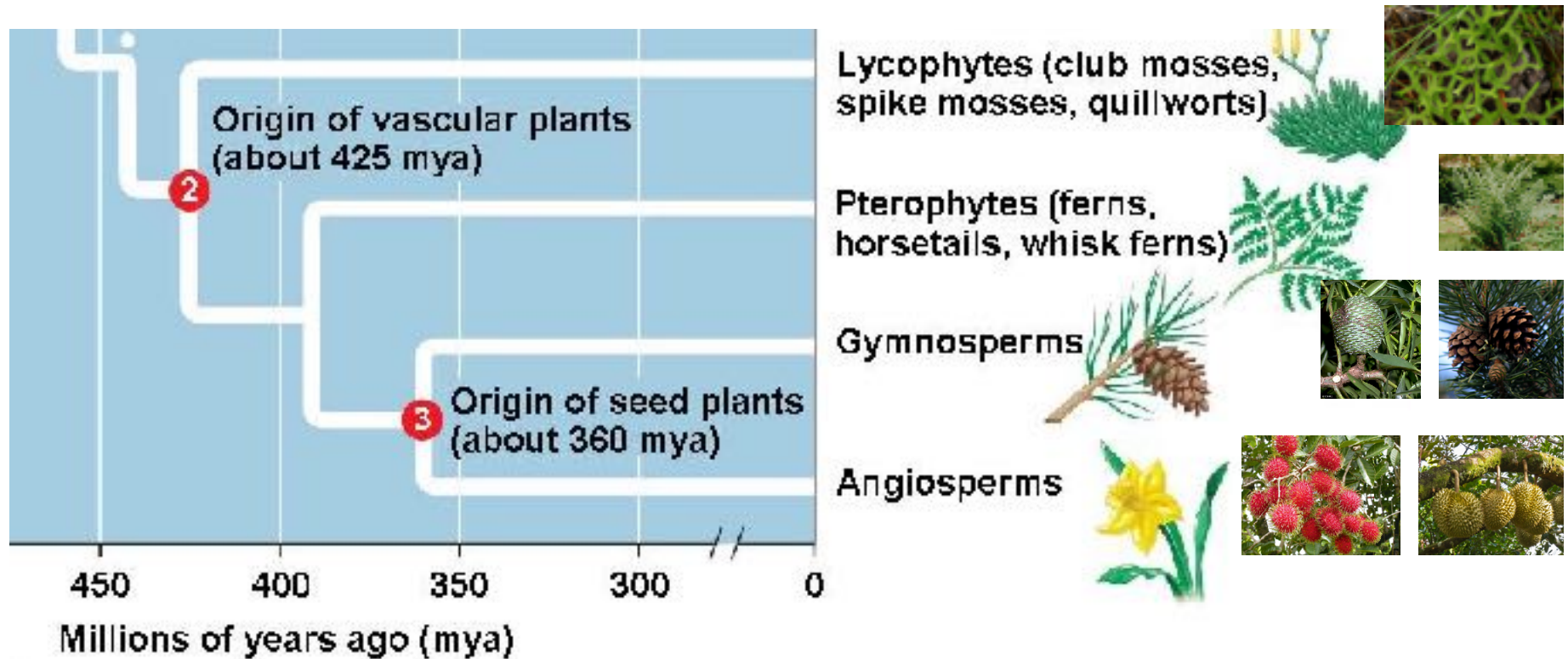
Phylogeny tumbuhan



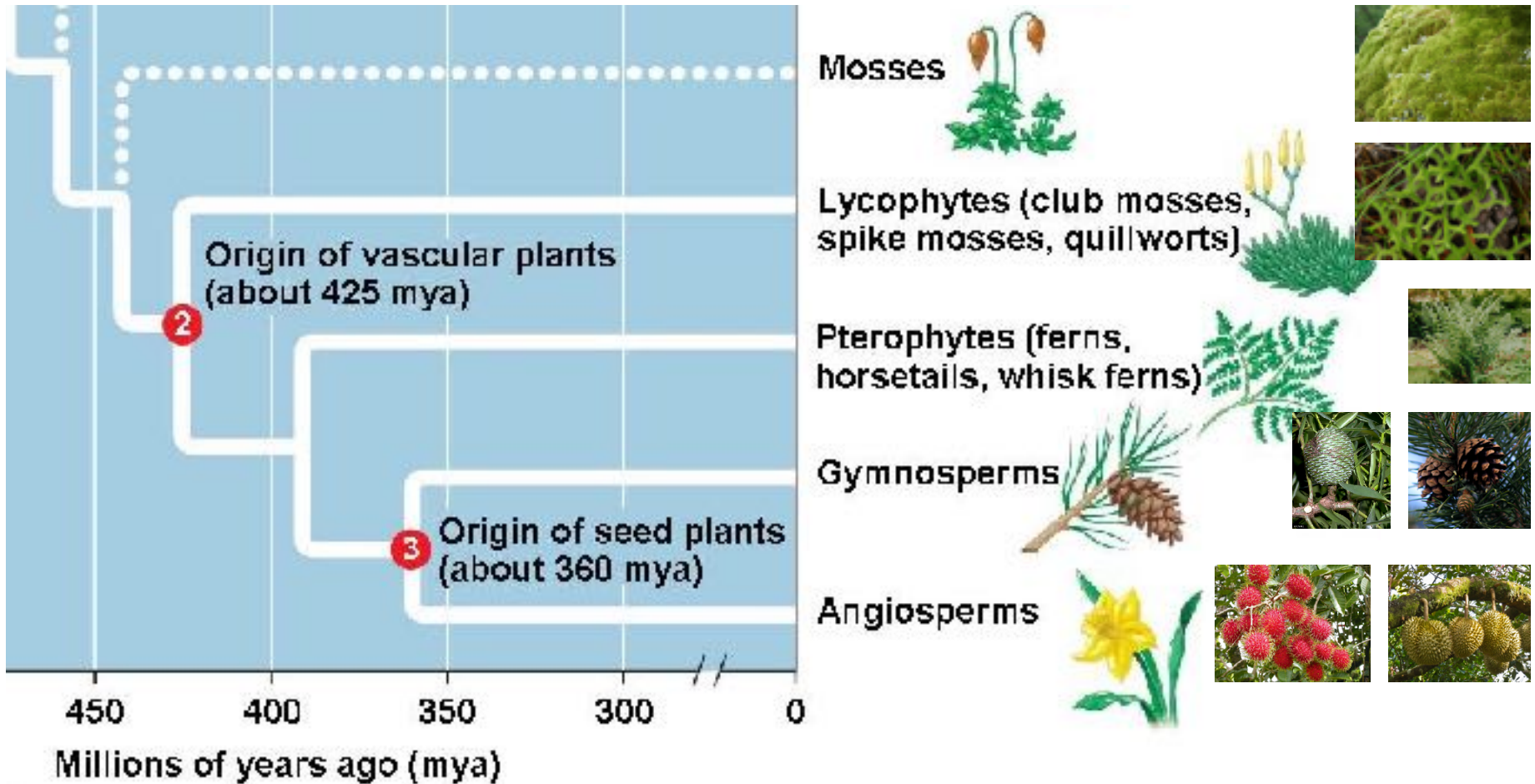
Phylogeny tumbuhan



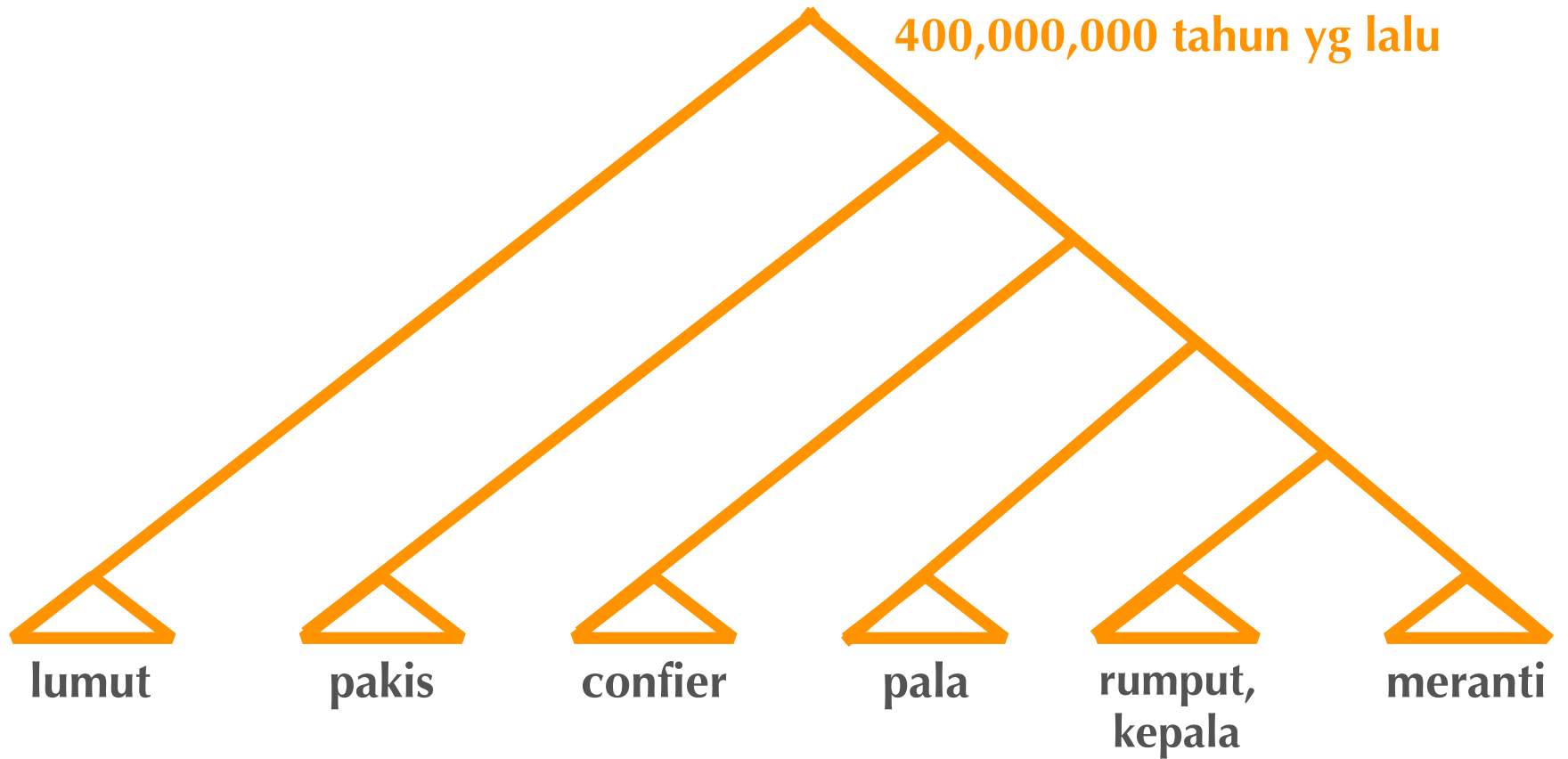
Phylogeny tumbuhan



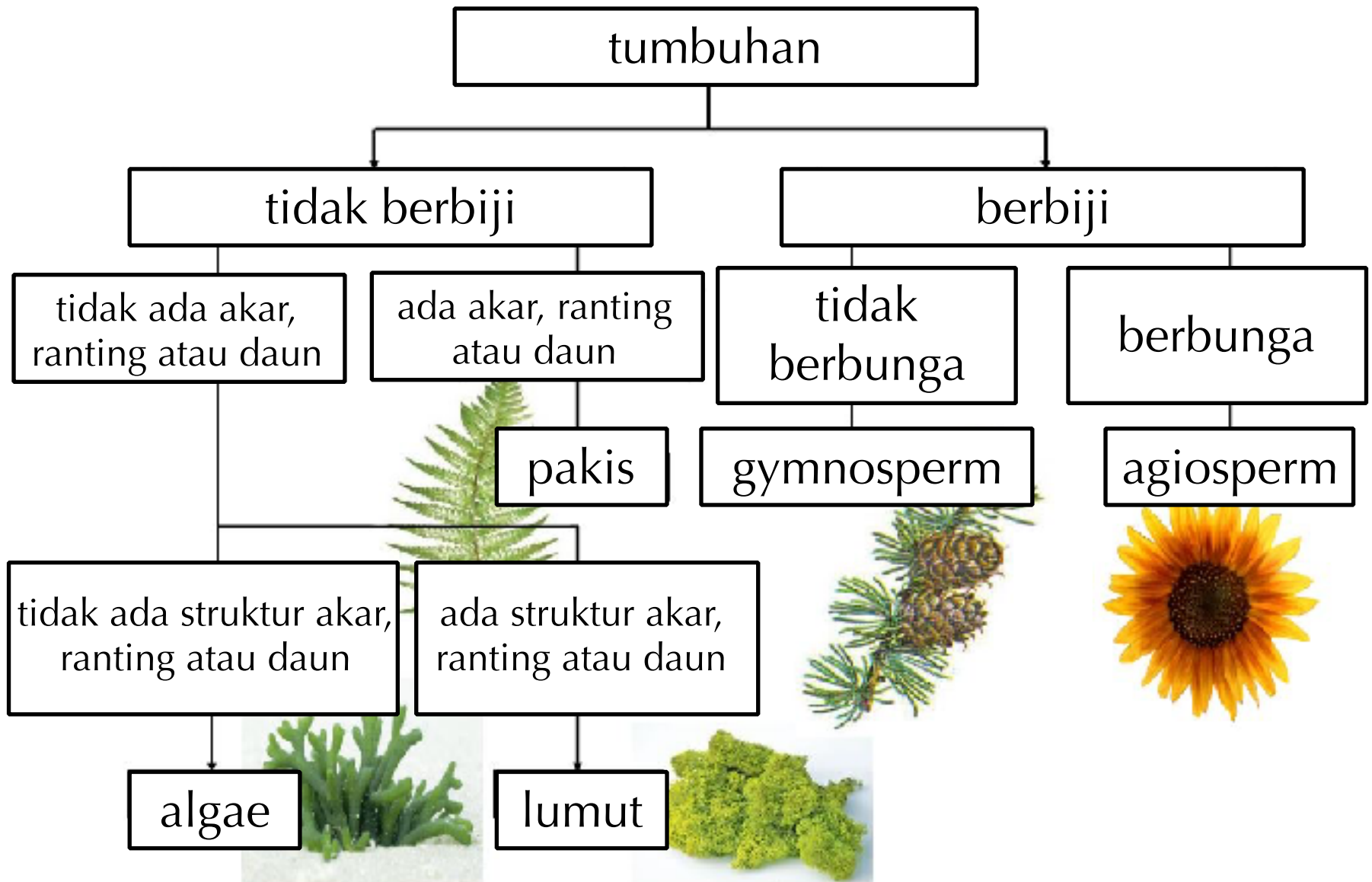
Phylogeny tumbuhan



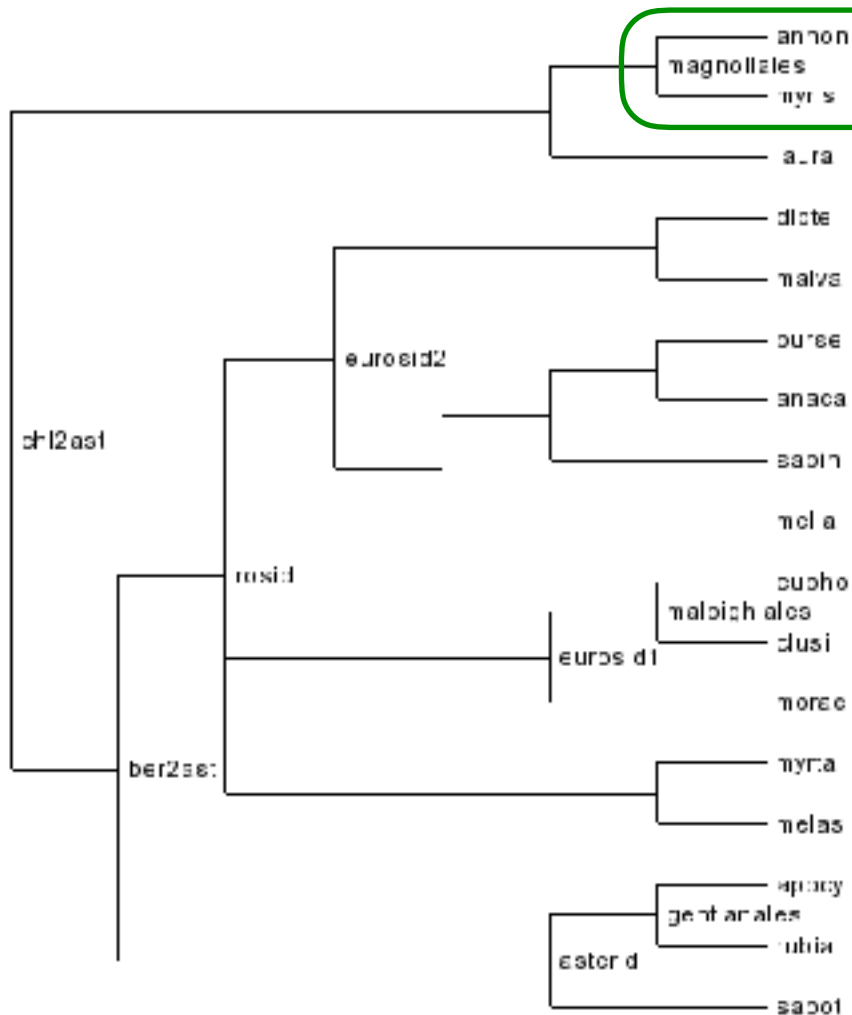
phylogeny tumbuhan sederhana



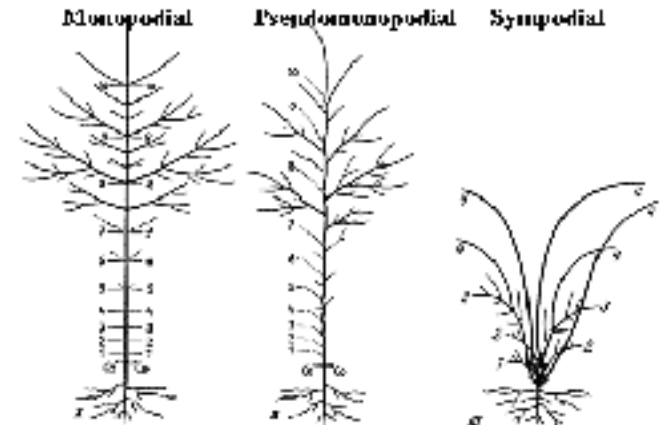
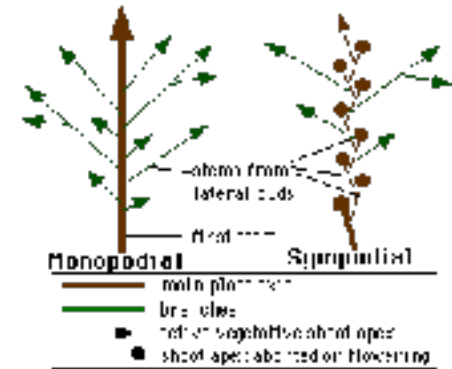
Kaitan antara phylogeny dan ciri-ciri



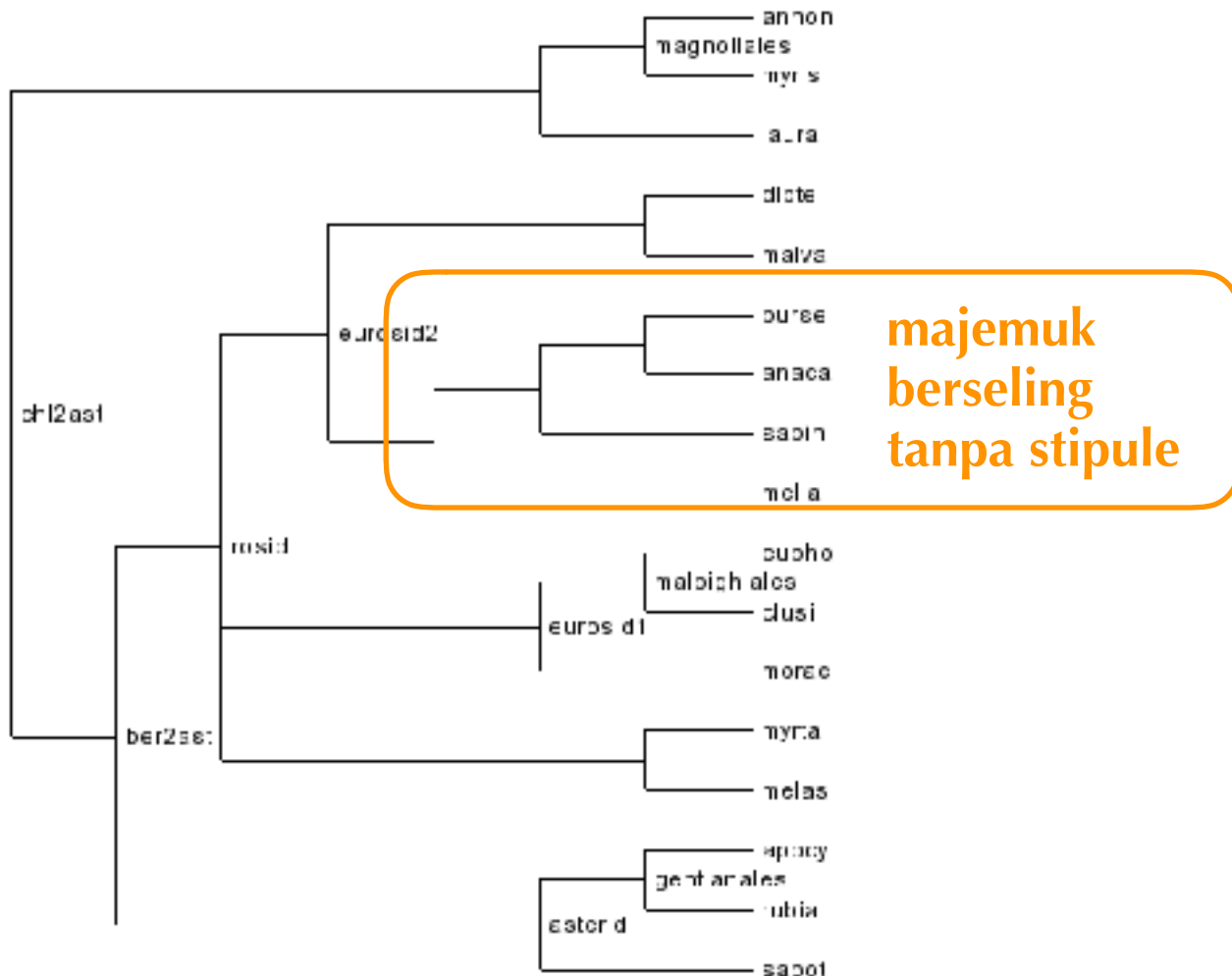
tumbuhan dalam kelompok yg sama sering ada ciri-ciri yg sama



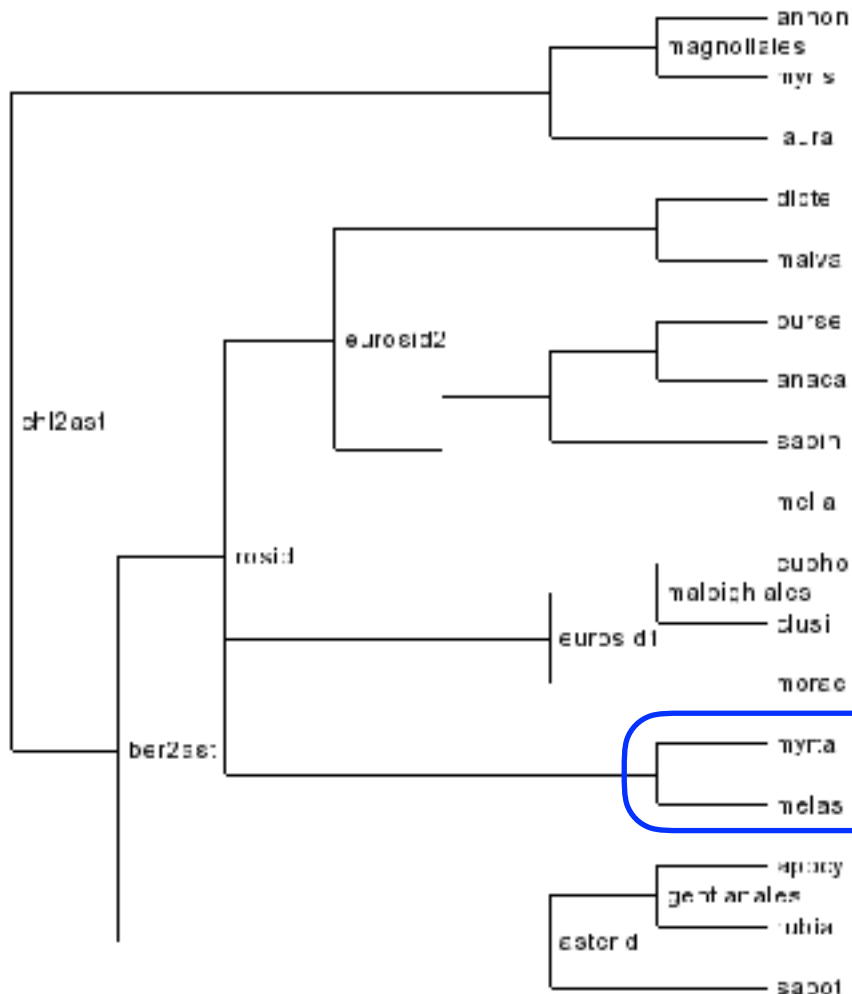
monopodial



tumbuhan dalam kelompok yg sama sering ada ciri-ciri yg sama



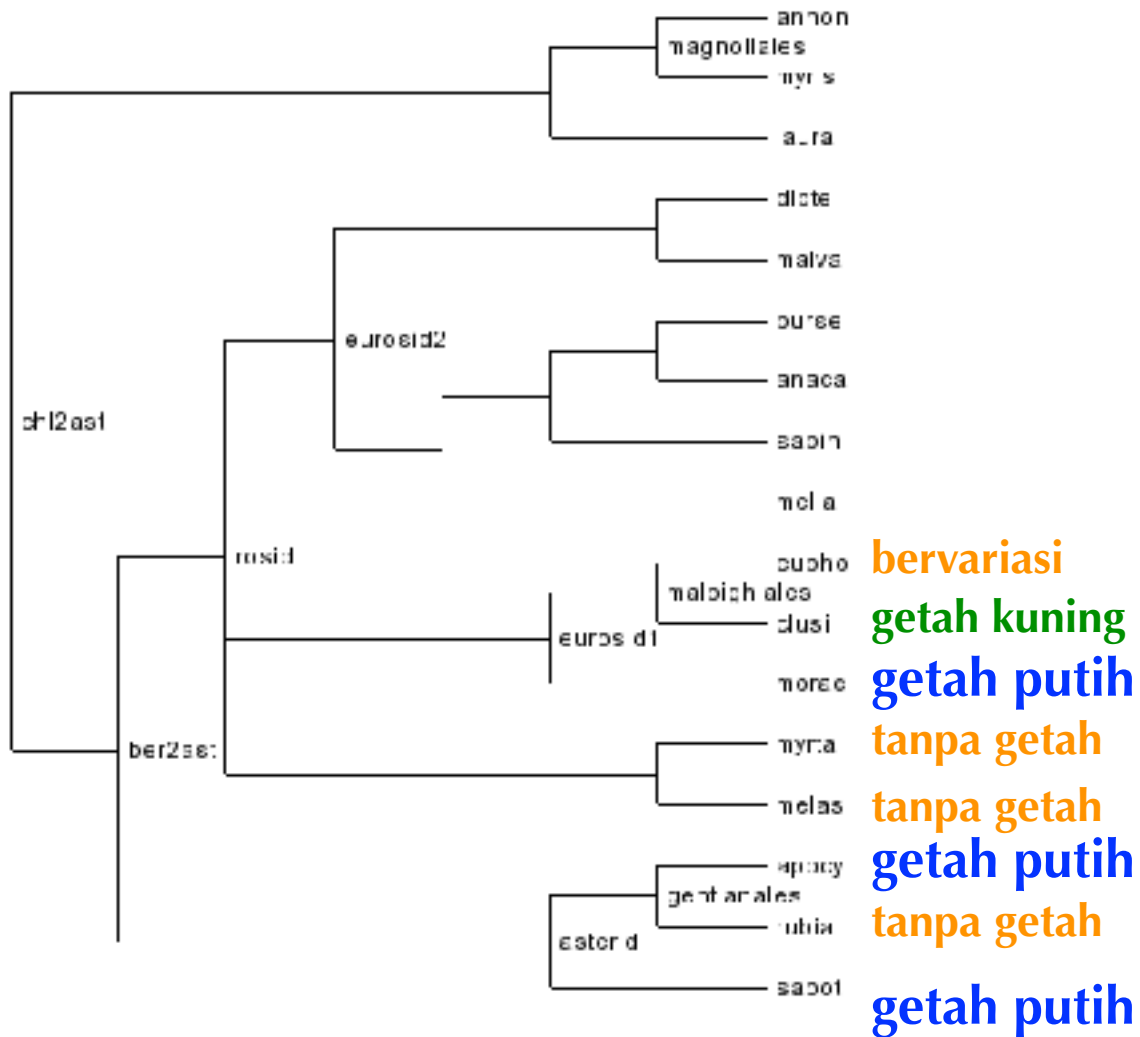
tumbuhan dalam kelompok yg sama sering ada ciri-ciri yg sama



tunggal, berhadapan



tapi tidak selalu!



Tingkatan nama



KINGDOM Animalia



PHYLUM Chordata



CLASS Mammalia



ORDER Carnivora



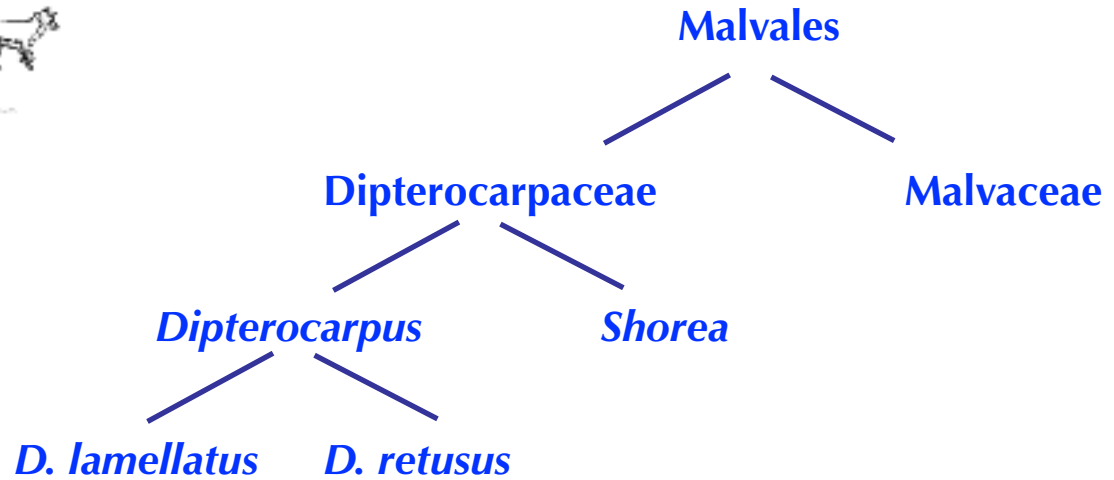
FAMILY Ursidae



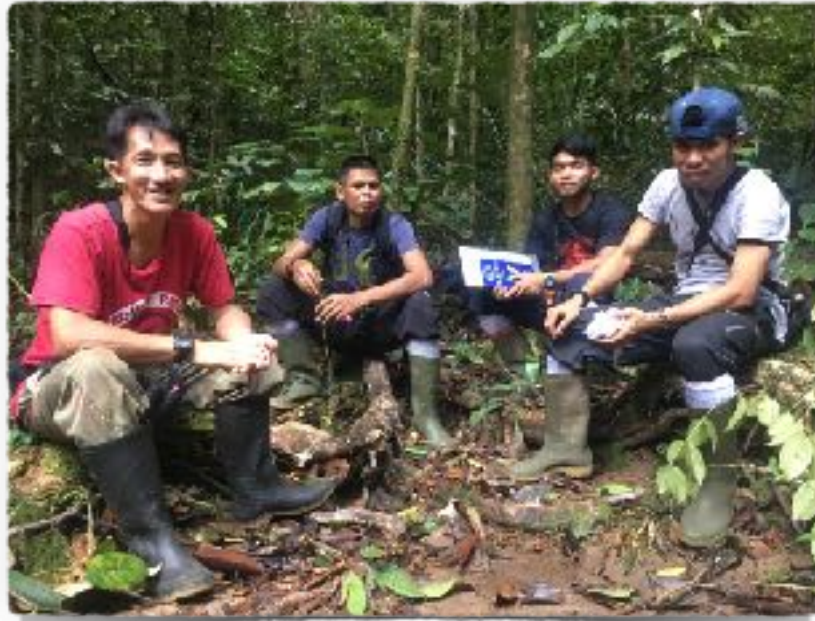
GENUS Ursus



SPECIES Ursus arctos



Ucapan terima kasih



Lande, Surya, Dika, Zakaria

Tim Laman (untuk foto2 yg hebat)

Ucapan terima kasih

Perdanahan



Supor utama



ONE FOREST



Supor lain

