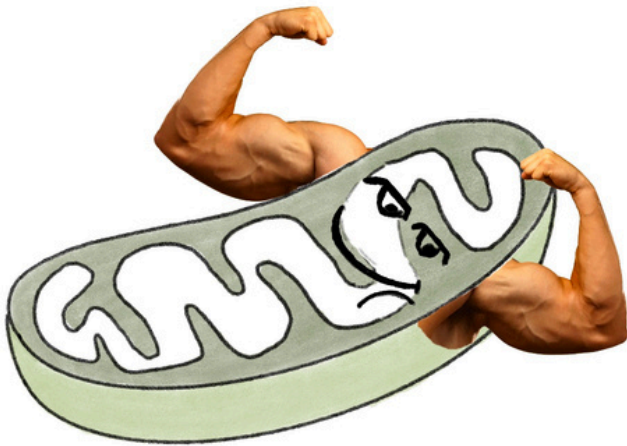


AP BIOLOGY

CLADOGRAMS

REVIEW



cladogram: shows hypothesized evolutionary relationships between species

→ based on **shared derived traits** (comes after a common ancestor)

KEY VOCAB

node: lineage splits in 2 → **common ancestor**

clade: group w/ ancestor & **ALL** of its descendants

sister taxa: 2 groups that **share** most recent ancestor

outgroup: least closely related group

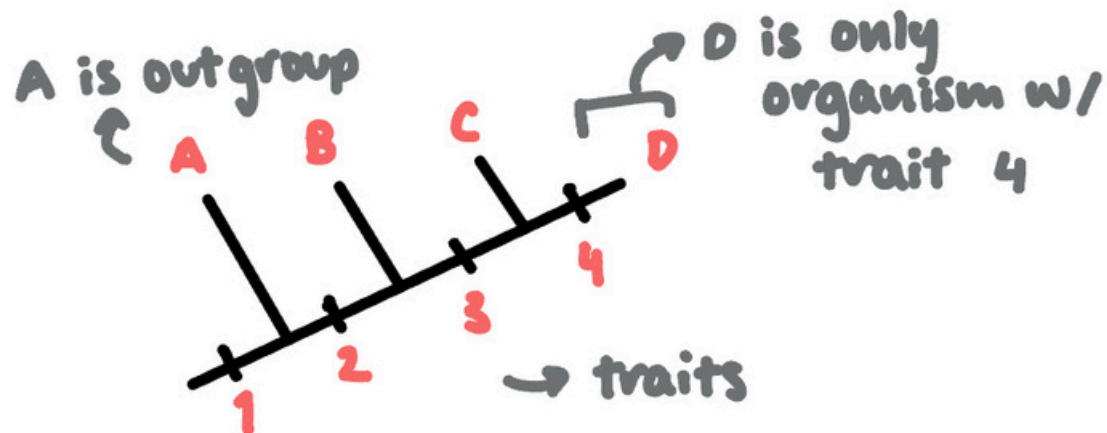
BUILDING A CLADOGRAM

→ using a character table

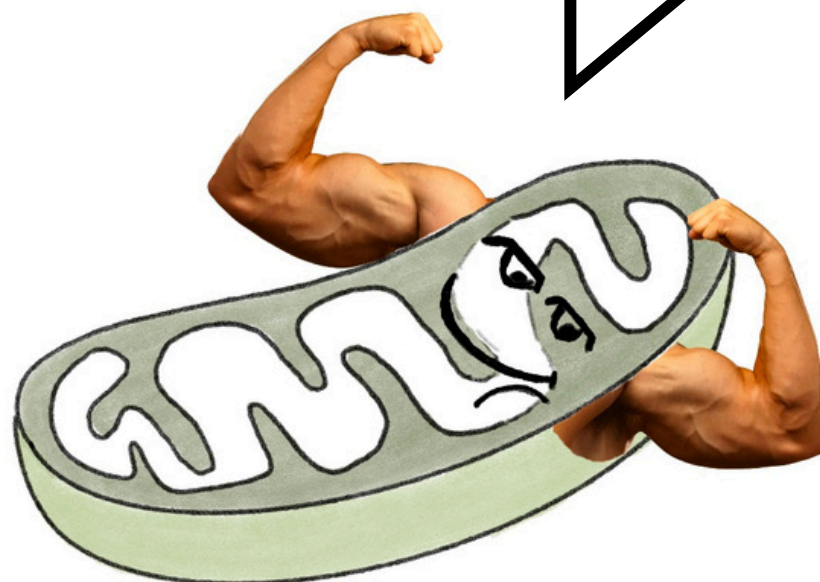
organism	trait				
	1	2	3	4	
	A	✓	x	x	x
	B	✓	✓	x	x
	C	✓	✓	✓	x
	D	✓	✓	✓	✓

→ outgroup

↓
cladogram



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