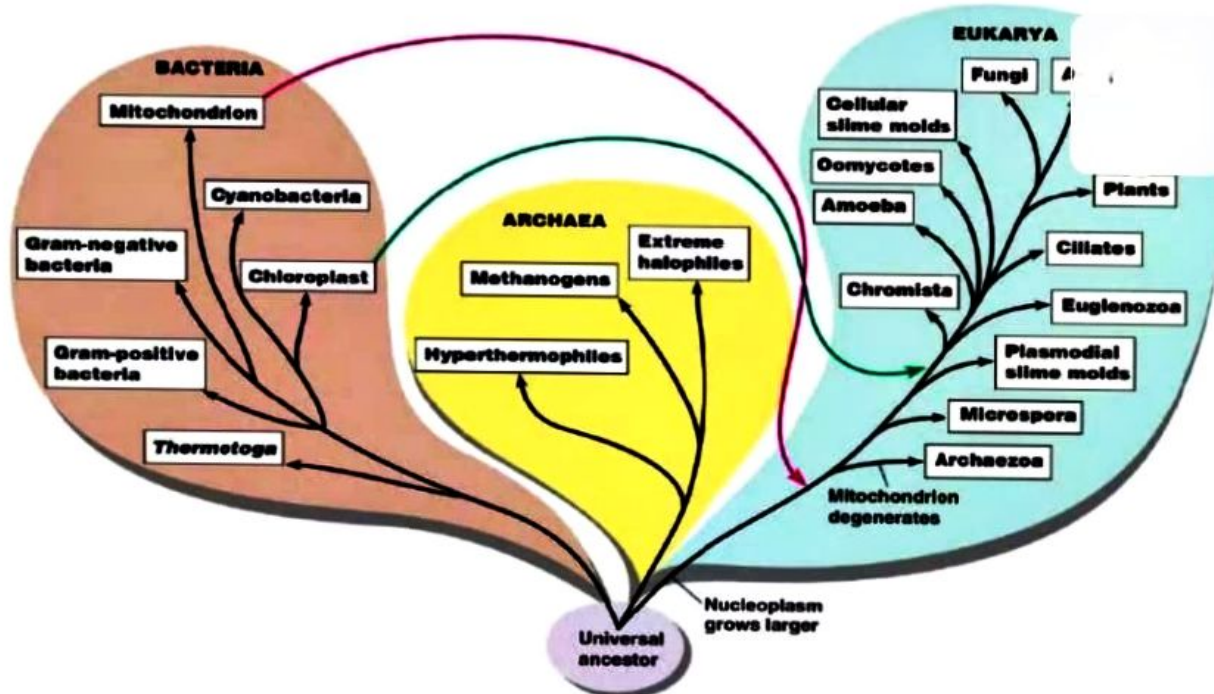


The three-domain system is a biological classification system introduced by **Carl Woese**

Phylogenetic Tree of the 3 Domains



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	ARCHAEA	BACTERIA	EUKARYA
CELL TYPE	PROKARYOTIC	PROKARYOTIC	EUKARYOTIC
CELL WALL	• VARIES IN COMPOSITION. • CONTAINS NO PEPTIDOGLYCAN	• CONTAINS PEPTIDOGLYCAN	• VARIES IN COMPOSITION. • CONTAINS CELLULOSE
MEMBRANE LIPIDS	COMPOSED OF BRANCHED CARBON CHAINS ATTACHED TO GLYCEROL BY ETHER LINKAGE	COMPOSED OF STRAIGHT CARBON CHAINS ATTACHED TO GLYCEROL BY ESTER LINKAGE	COMPOSED OF STRAIGHT CARBON CHAINS ATTACHED TO GLYCEROL BY ESTER LINKAGE
FIRST AMINO ACID IN PROTEIN SYNTHESIS	METHIONINE	FORMYLMETHIONINE	METHIONINE
T RNA LOOP	LACKING	PRESENT	LACKING