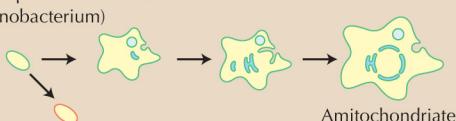
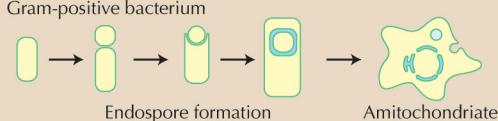
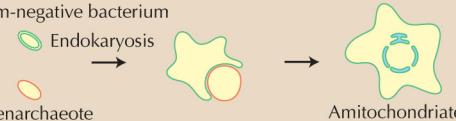
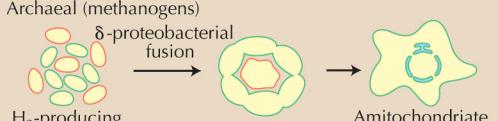
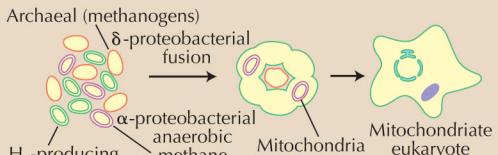
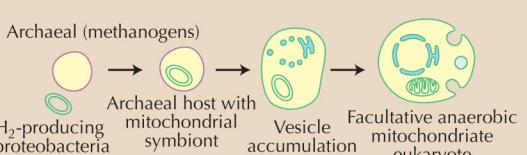
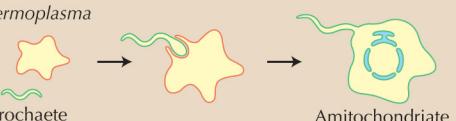
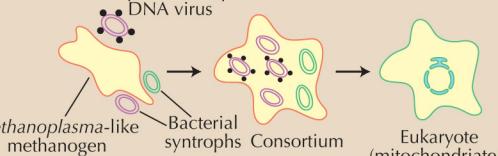


TABLE 8.2. Schematic summary of various models for the origin of the nucleus

Schematic Model	Membrane That Nuclear Membrane Is Derived from and Is Homologous to	Compartment That the Nuclear Compartment Is Derived from and Is Homologous to
A Gram-positive bacterium (actinobacterium)	Plasma membrane of a bacterium	Bacterial cytoplasm
	Amitochondriate eukaryote	
B Gram-positive bacterium	Plasma membrane of a bacterium	Bacterial endospore
	Amitochondriate eukaryote	
C Gram-negative bacterium	Plasma membranes of a bacterium and an archaea	Archaeal cytoplasm
	Amitochondriate eukaryote	
D Archaeal (methanogens)	Plasma membranes of several bacteria	Archaeal cytoplasm
	Amitochondriate eukaryote	
E Archaeal (methanogens)	Plasma membranes of several bacteria	Archaeal cytoplasm
	Mitochondria Mitochondriate eukaryote	
F Archaeal (methanogens)	Vesicles of bacterial lipids synthesized in an archaeal cytoplasm	Archaeal cytoplasm around the chromosome
	Vesicle accumulation Facultative anaerobic mitochondriate eukaryote	
G <i>Thermoplasma</i>	Plasma membranes of a bacterium and an archaea	Spirochaete cytoplasm
	Amitochondriate eukaryote	
H	Viral coat	Viral lumen
	Bacterial syntrophs Consortium Eukaryote (mitochondrion?)	

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