

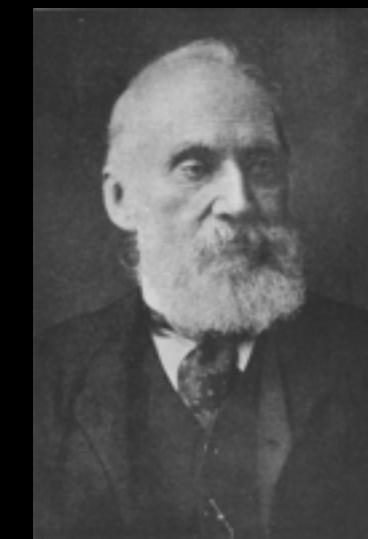
Biology Essentials - 011



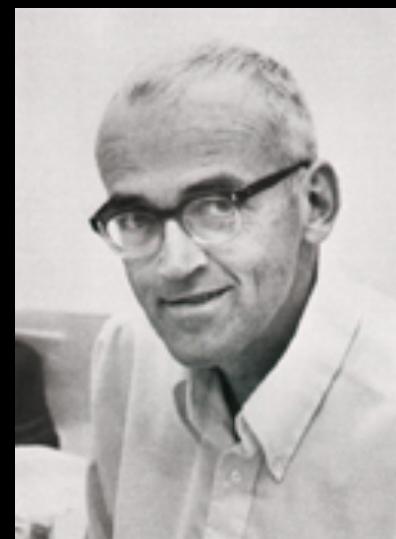
Canyon Diablo meteorite



Kelvin



Patterson



The Origin of Life: Scientific Evidence

The Origin of Life

Scientific
Evidence

Last Universal
Ancestor

Geology

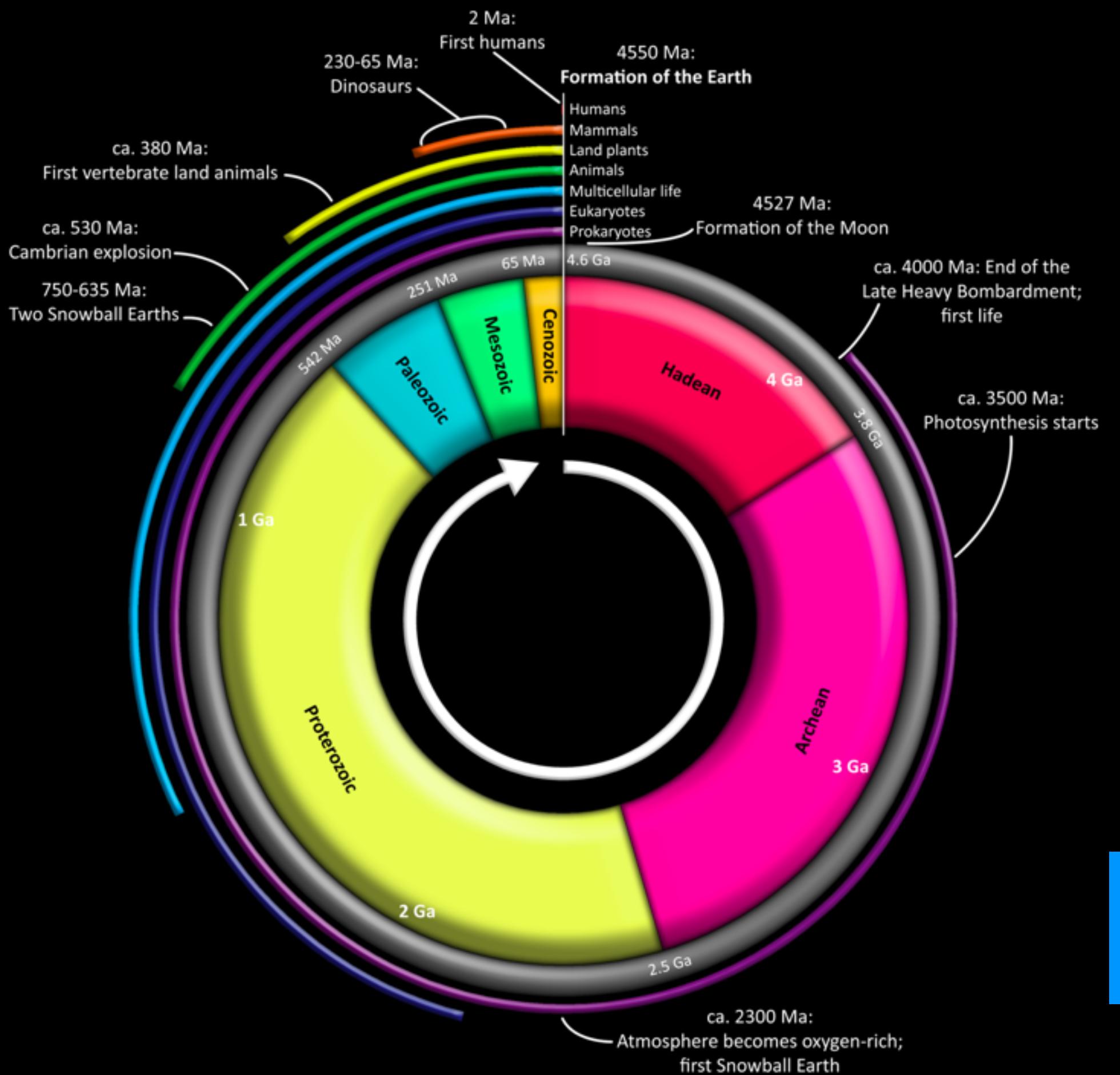
Chemistry

Molecular

Fossil

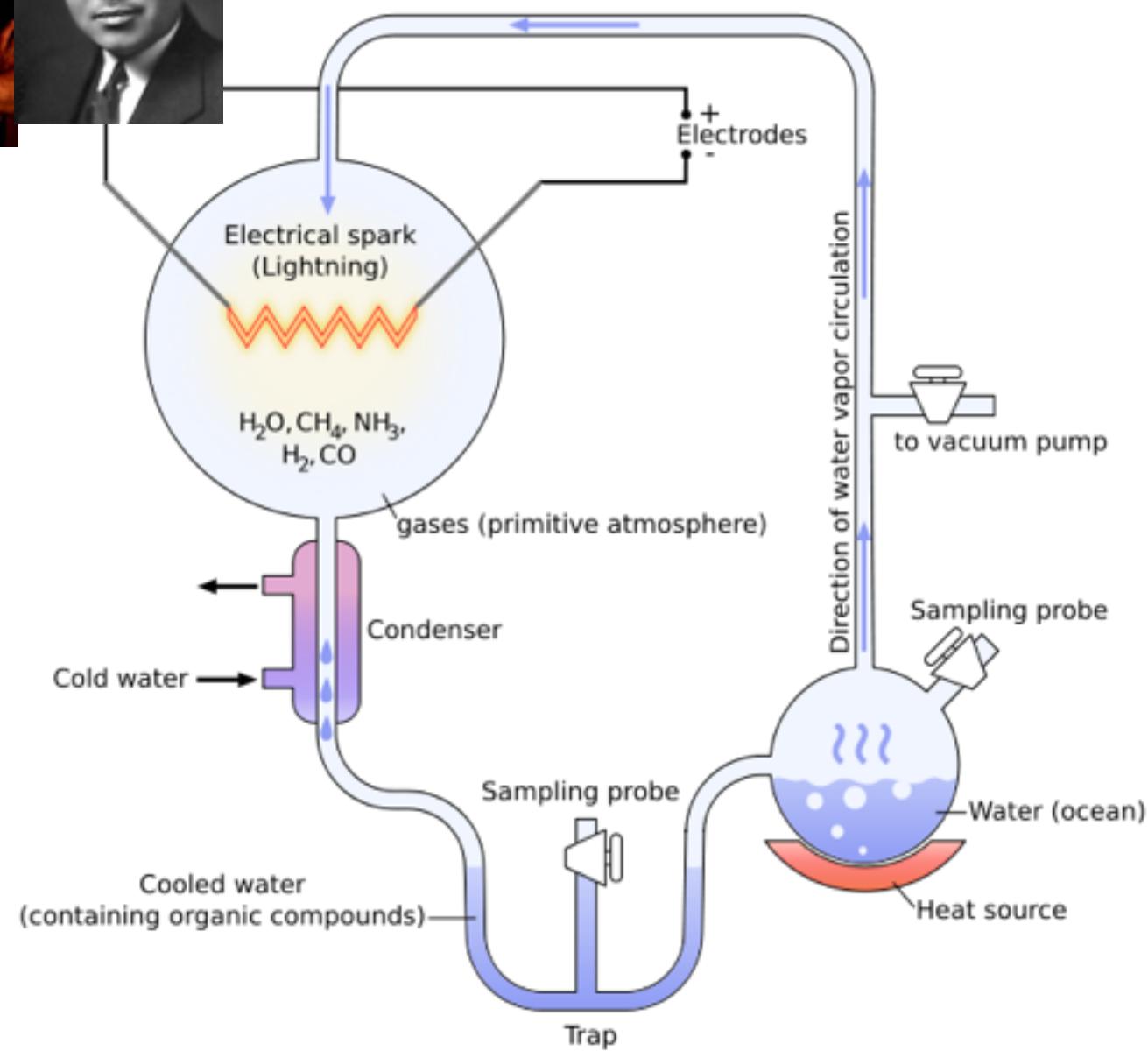
Abiogenesis

Homologies

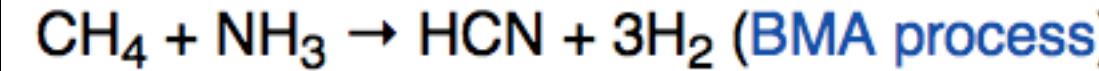
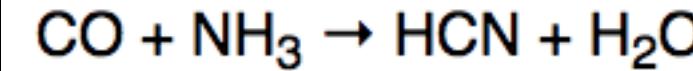
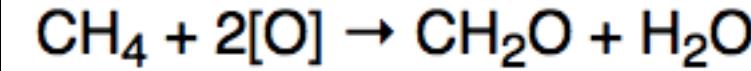
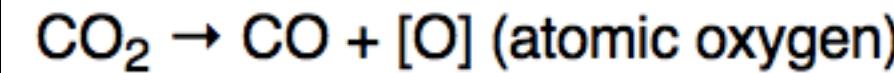


Geologic Evidence

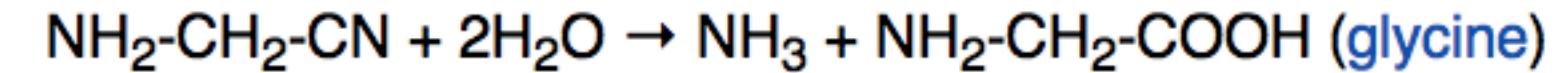
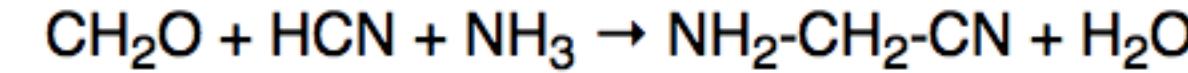
Chemical Evidence



Step 1



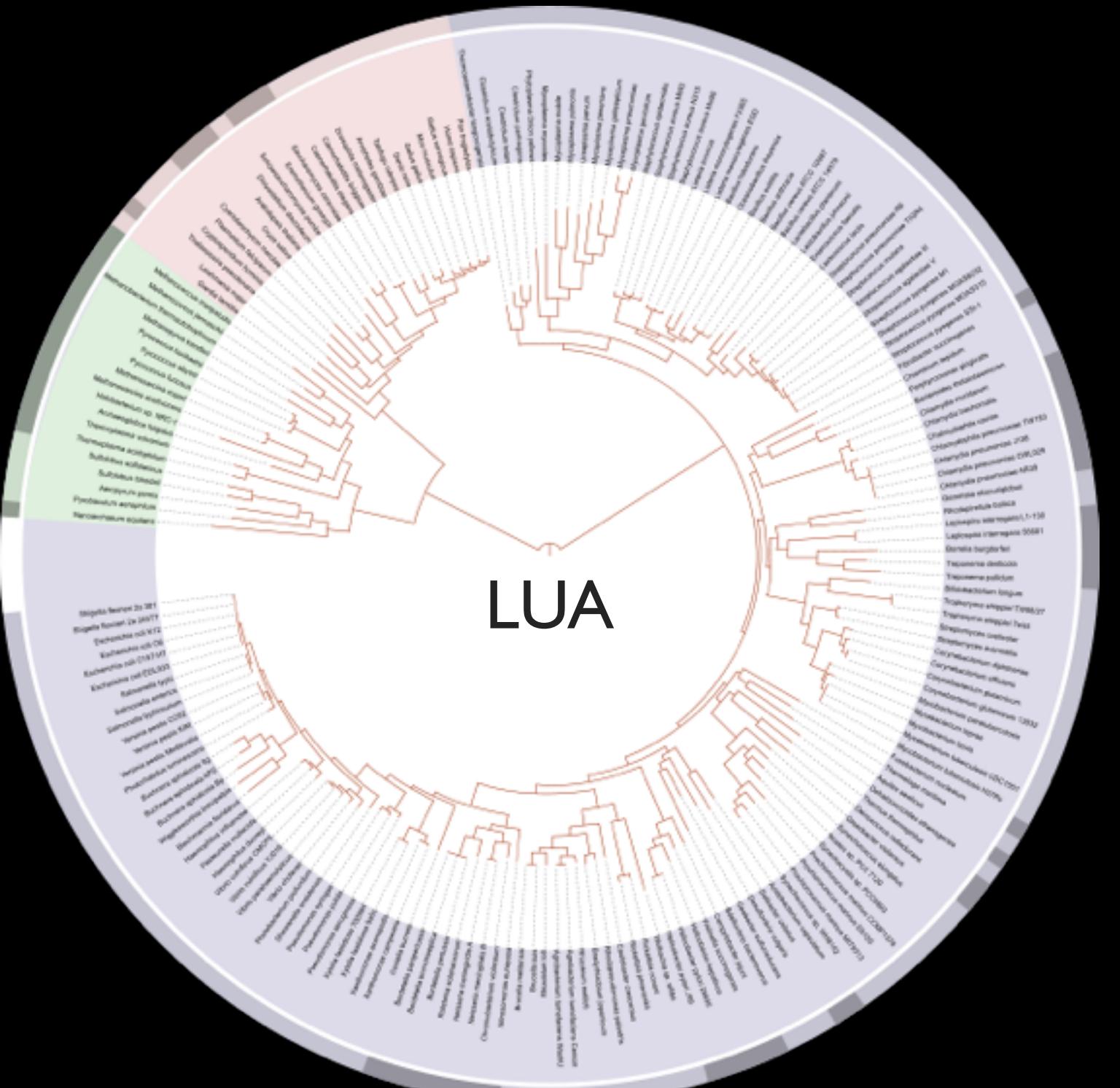
Step 2



Jeffrey Bada

Molecular Evidence

Last Universal Ancestor

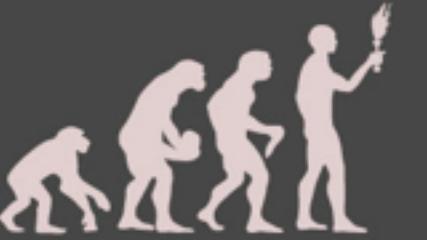
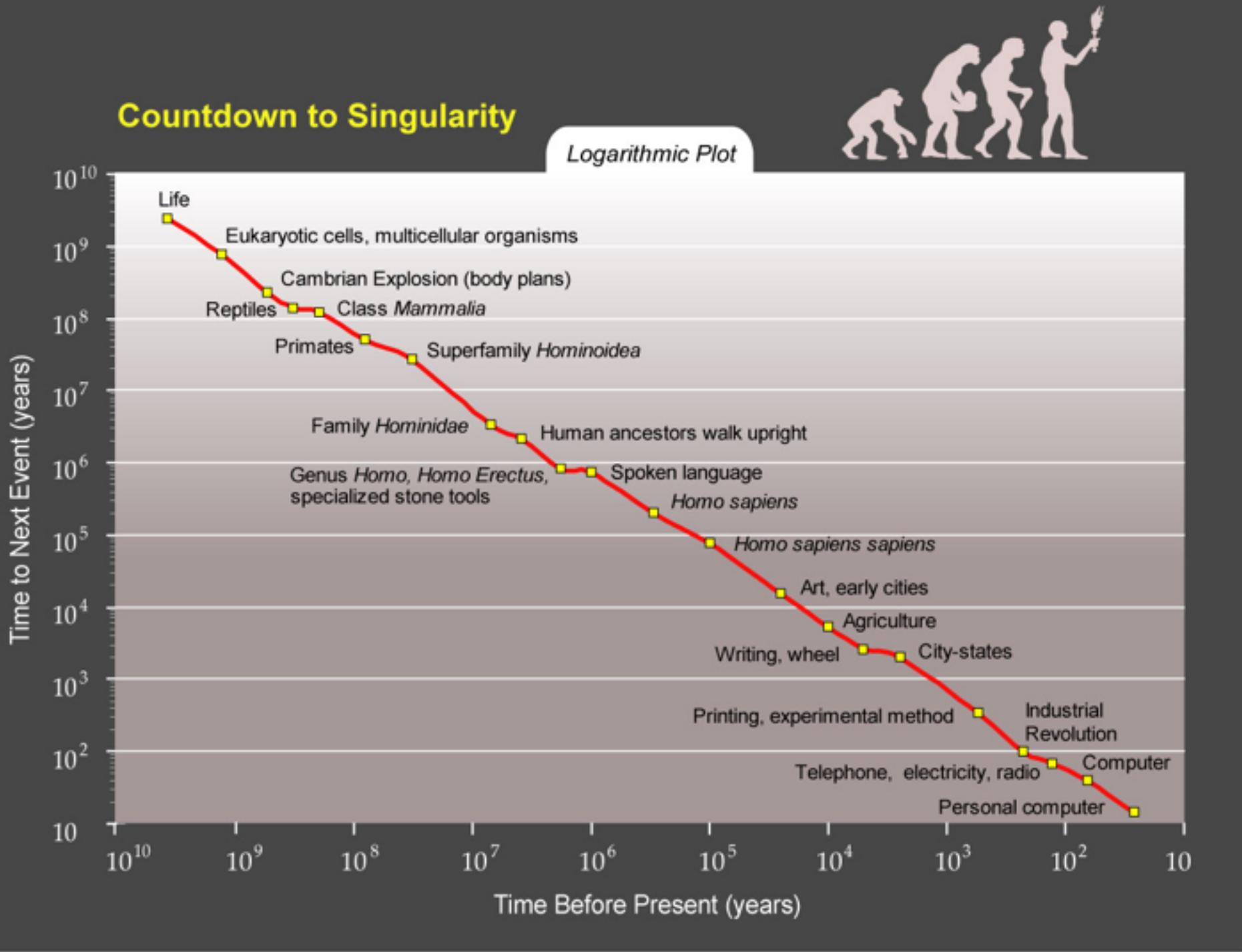


- DNA
- RNA intermediates
- Proteins
- ATP
- Lipid membrane
- Cell division

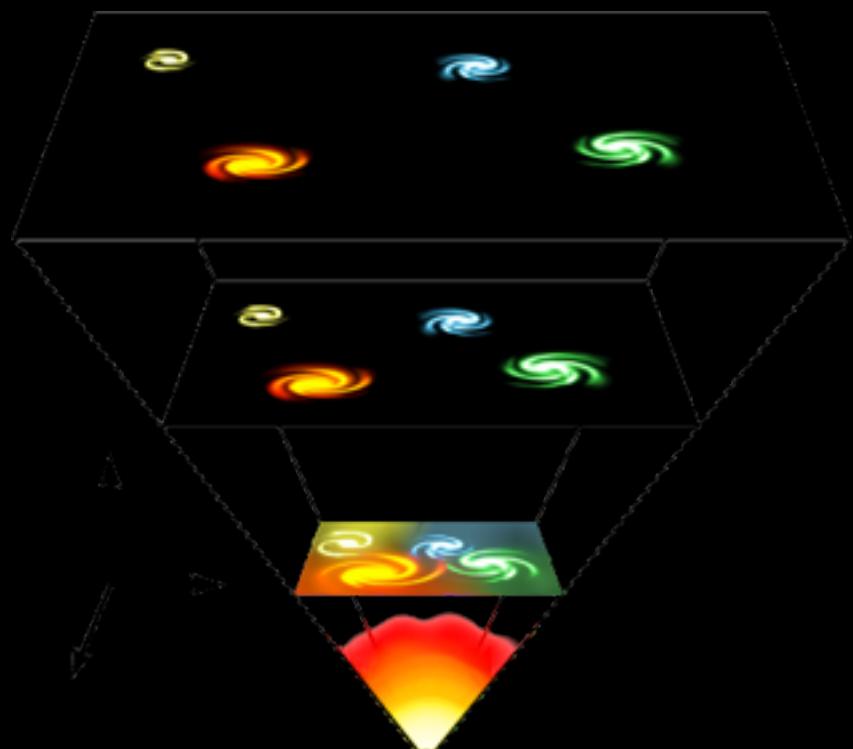


Countdown to Singularity

Logarithmic Plot



Ray Kurzweil



Acknowledgements

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