Constraining the Definition of Life

Professor Sara Imari Walker



WHAT IS LIFE?



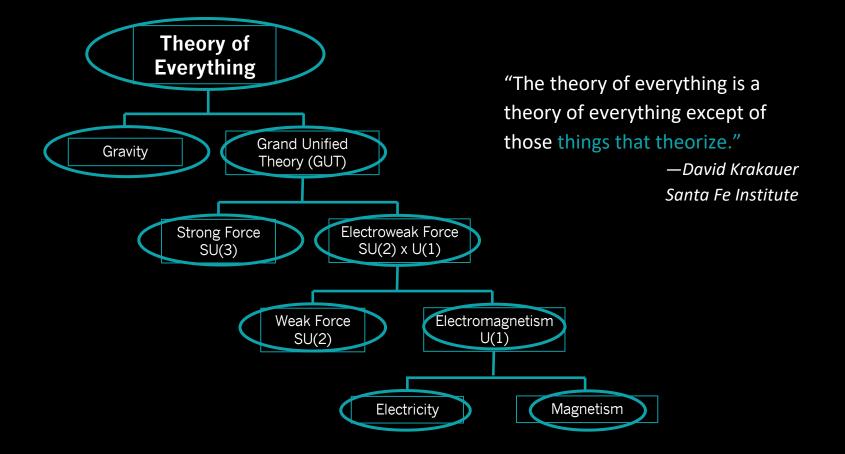
E. Schrödinger. What is Life? Cambridge University Press, 1944

"... living matter, while not eluding the 'laws of physics' as established up to date, is likely to involve 'other laws of physics' hitherto unknown"

HISTORY OF UNIFICATIONS IN PHYSICS

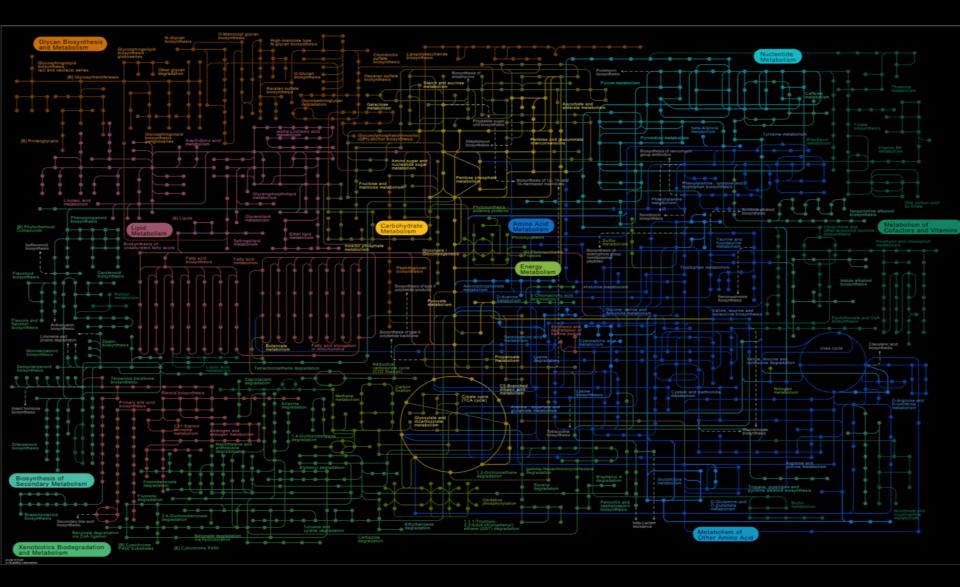


https://epod.usra.edu/blog/2012/01/crescent-moon-earthshine-and-venus.html



EXAMPLES OF "LIFE"









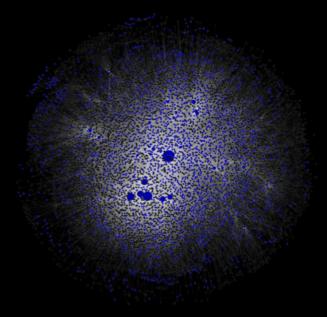
Images of two-headed planaria provided by Michael Levin (Tufts U.)



This image is from the lab of Stephen Pratt at Arizona State University

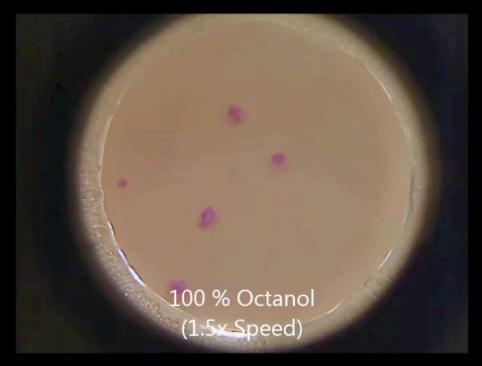






Network representation of the global inventory of enzymatically catalyzed biochemical reactions

WHAT ABOUT "ALMOST LIFE?" IS THERE SUCH A THING?



This video is from Points et al PNAS 115:885 (2018)

