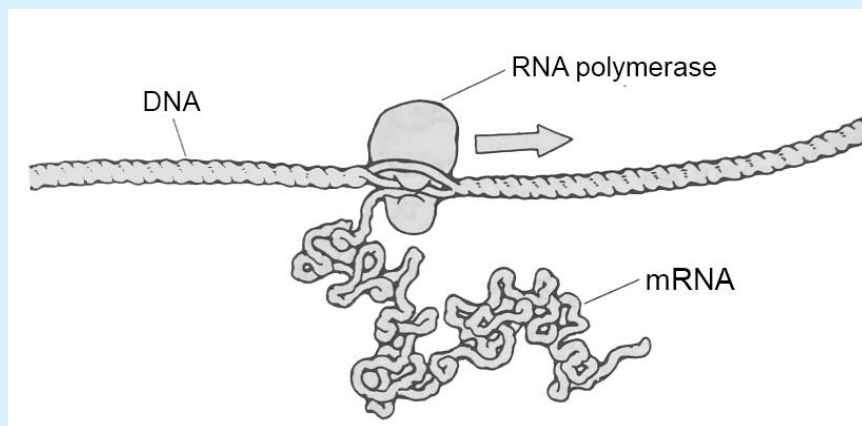
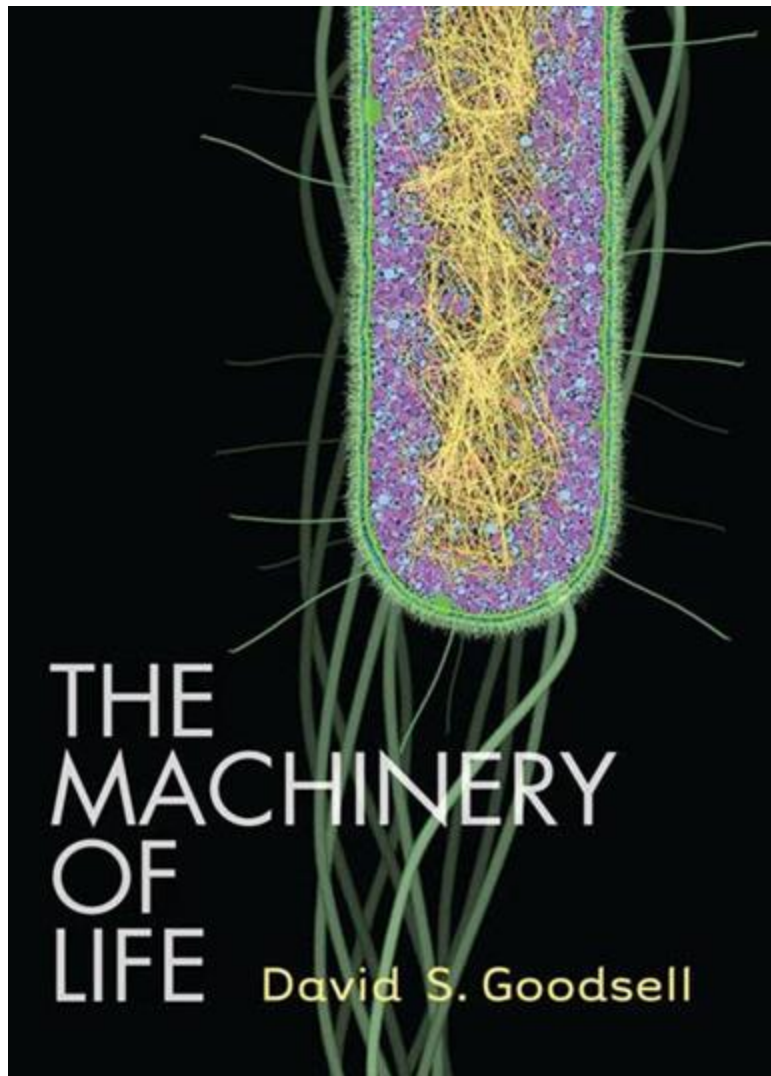


The Cellular Landscapes of David Goodsell



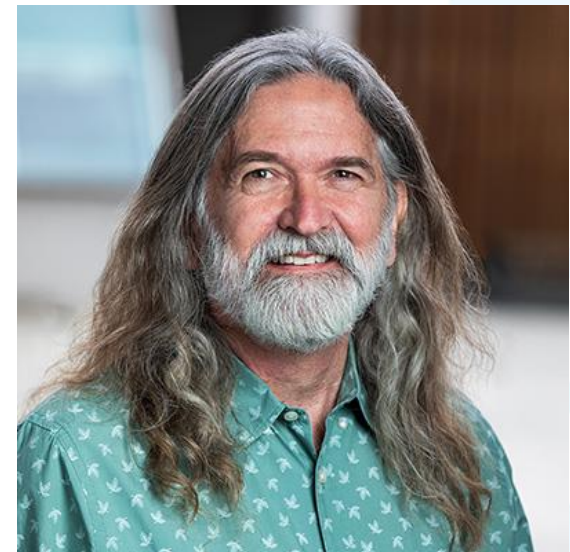
Tim Herman
3D Molecular Designs



David Goodsell

Scripps Research institute

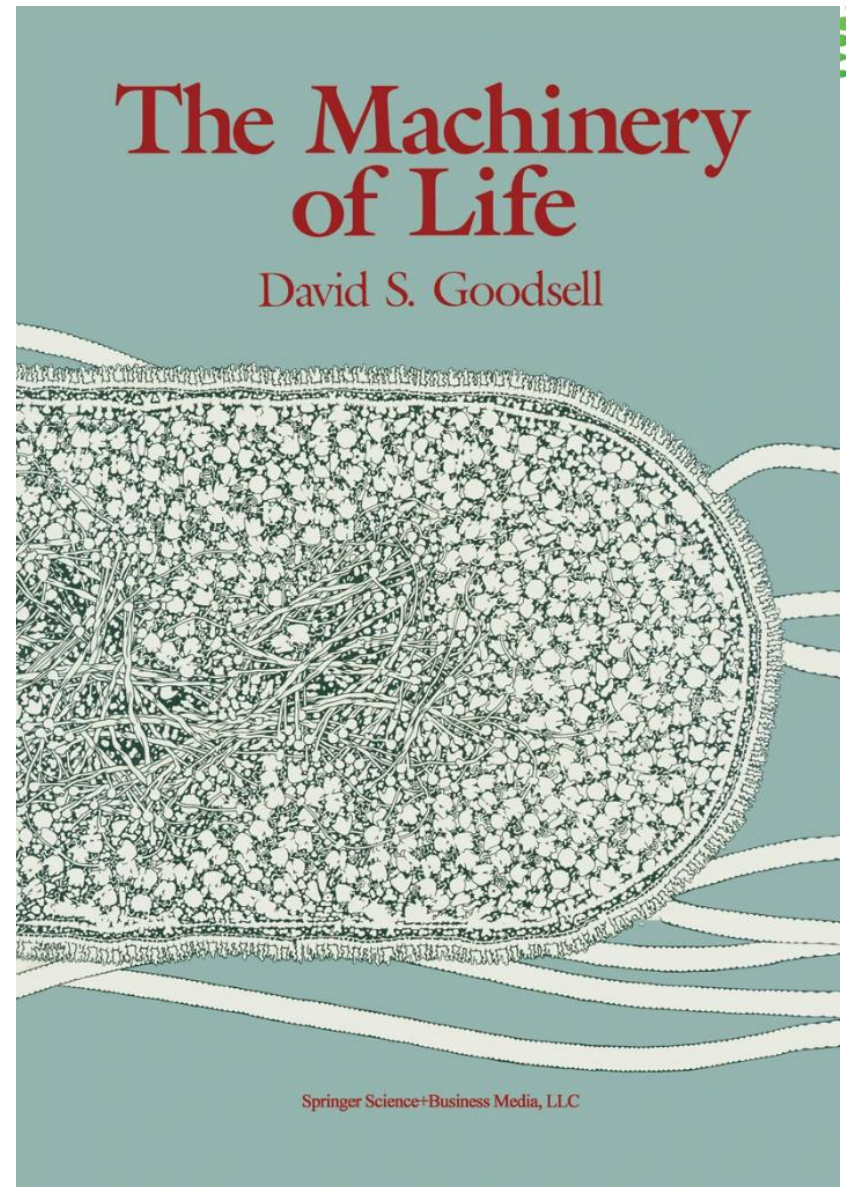
*Scientist... Author... and
Artist of all things
small.*



Imagine that we had some way to look directly at the molecules in our bodies.....

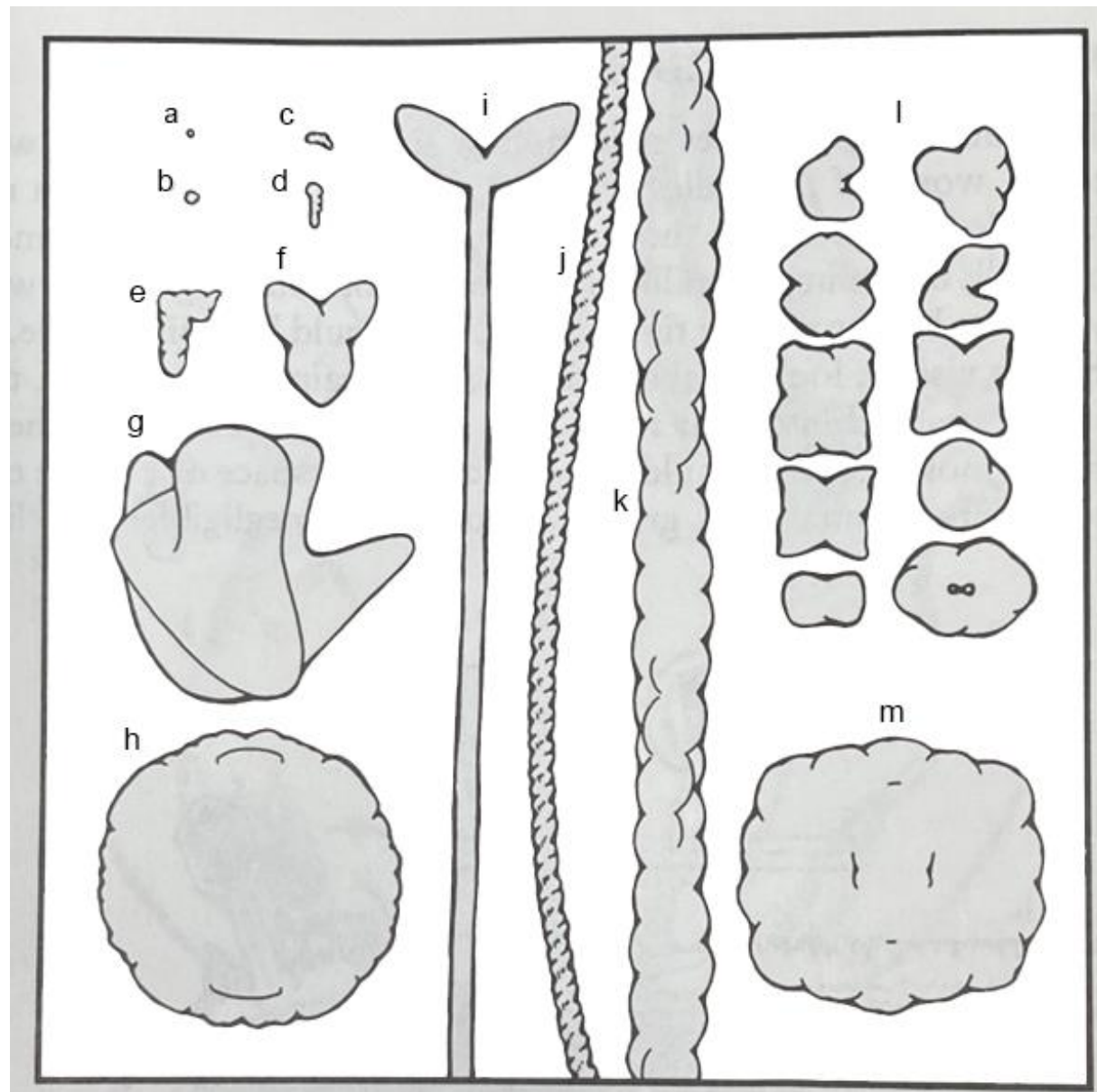


1993



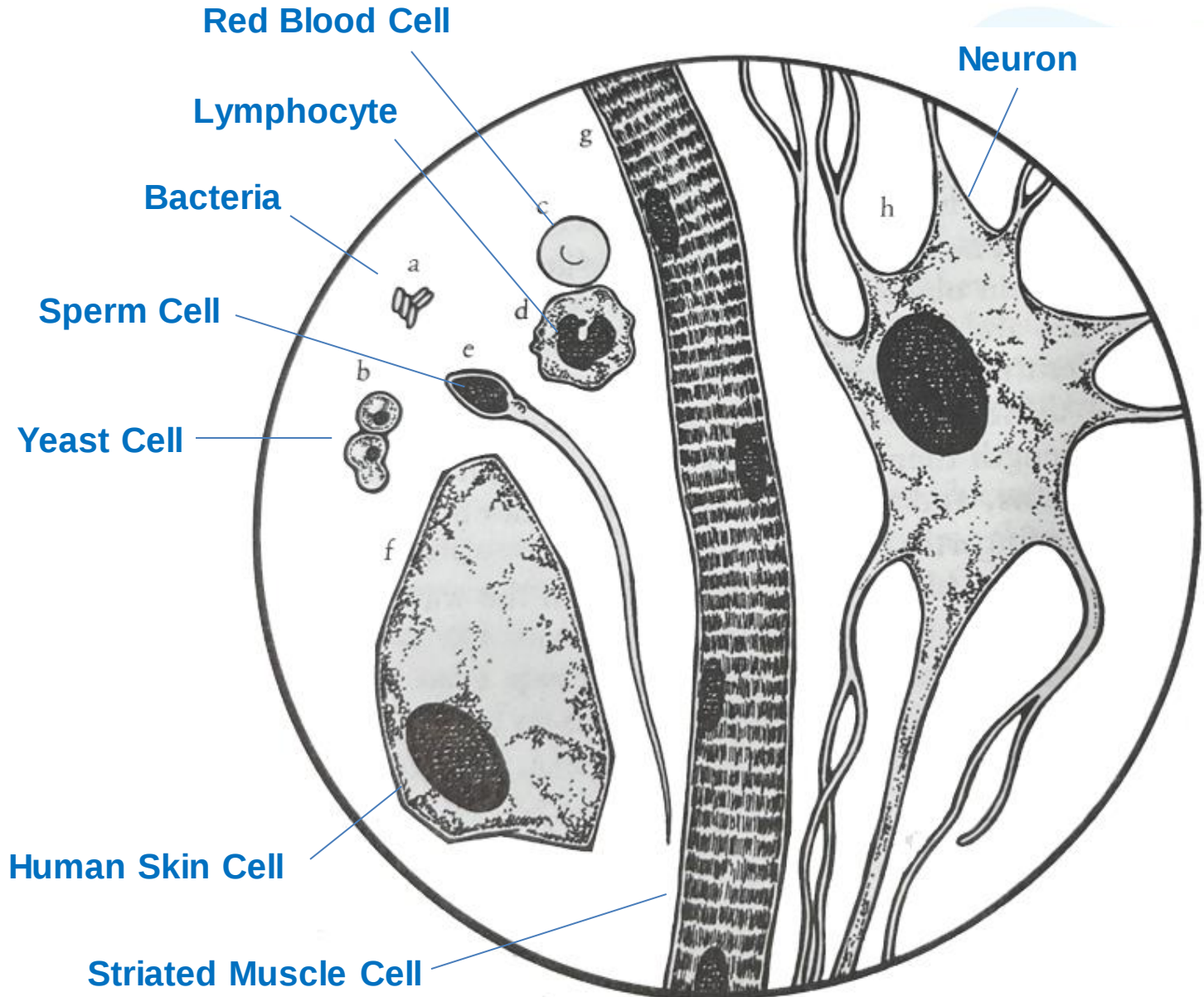
Molecules...

1,000,000 X
magnification



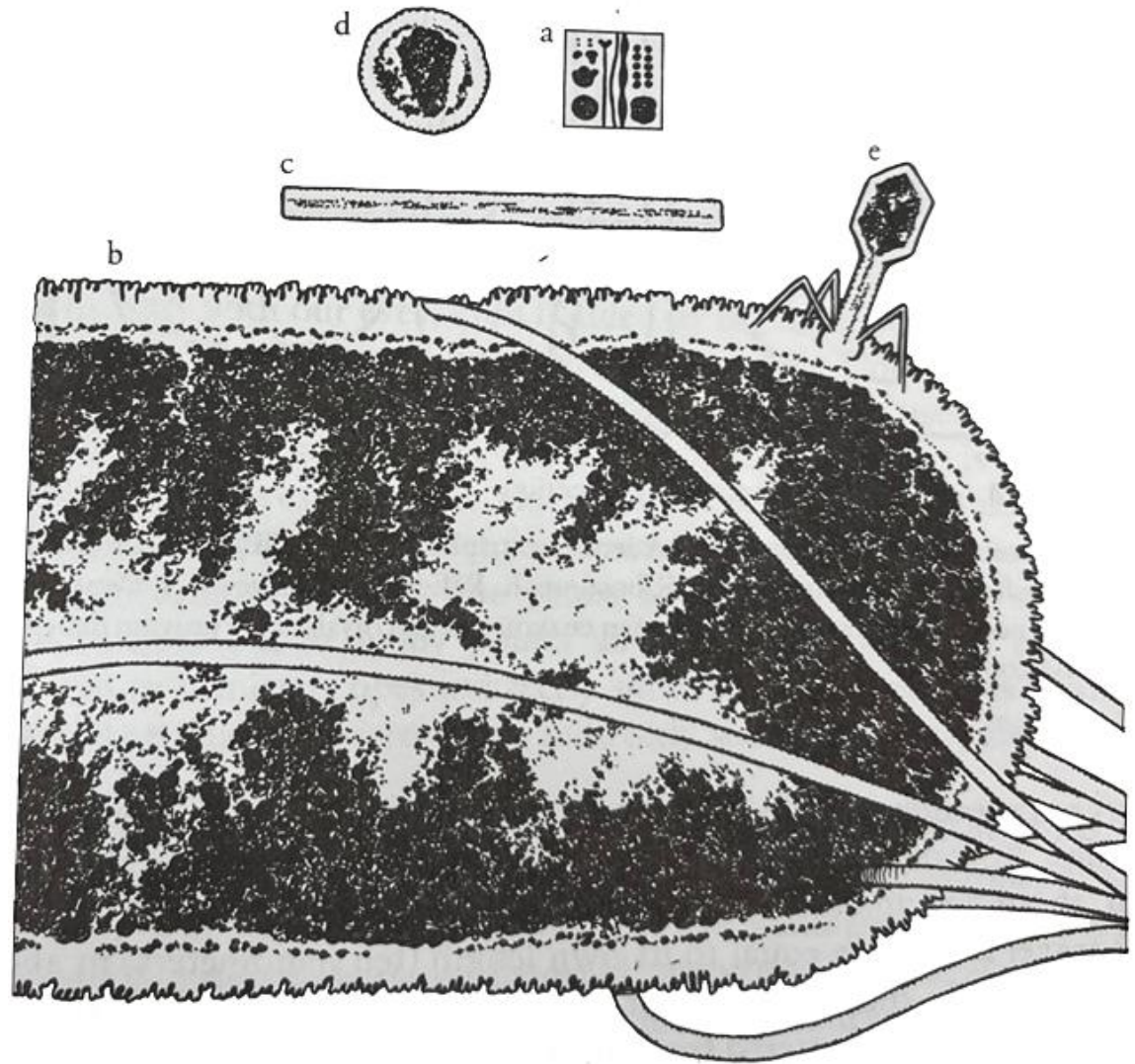
Cells...

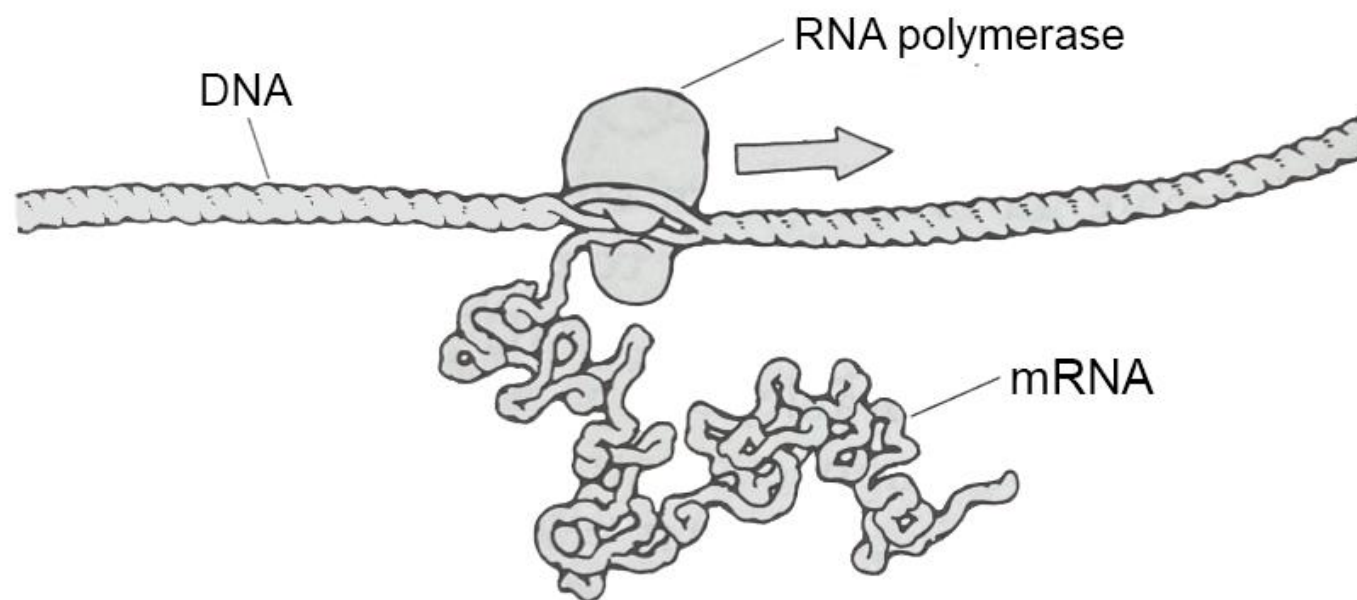
1,000 X
magnification

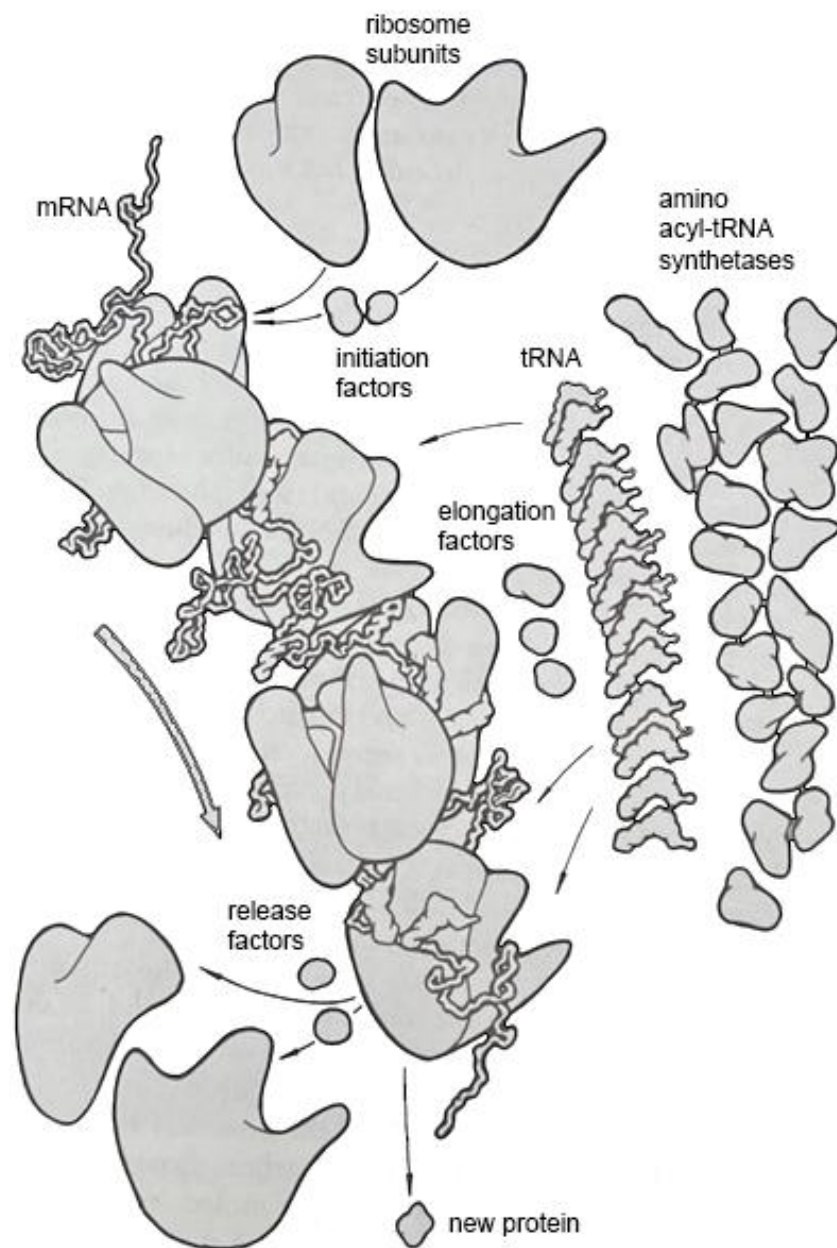


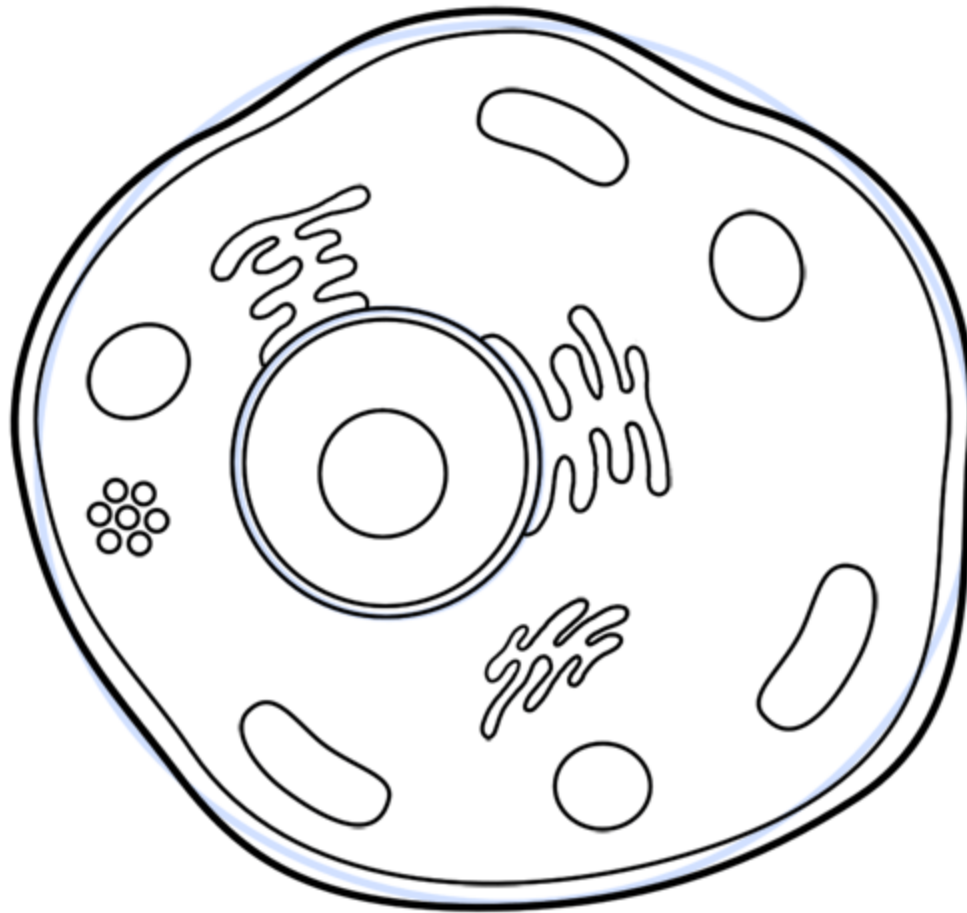
Bacteria,... and Viruses

100,000 X
magnification

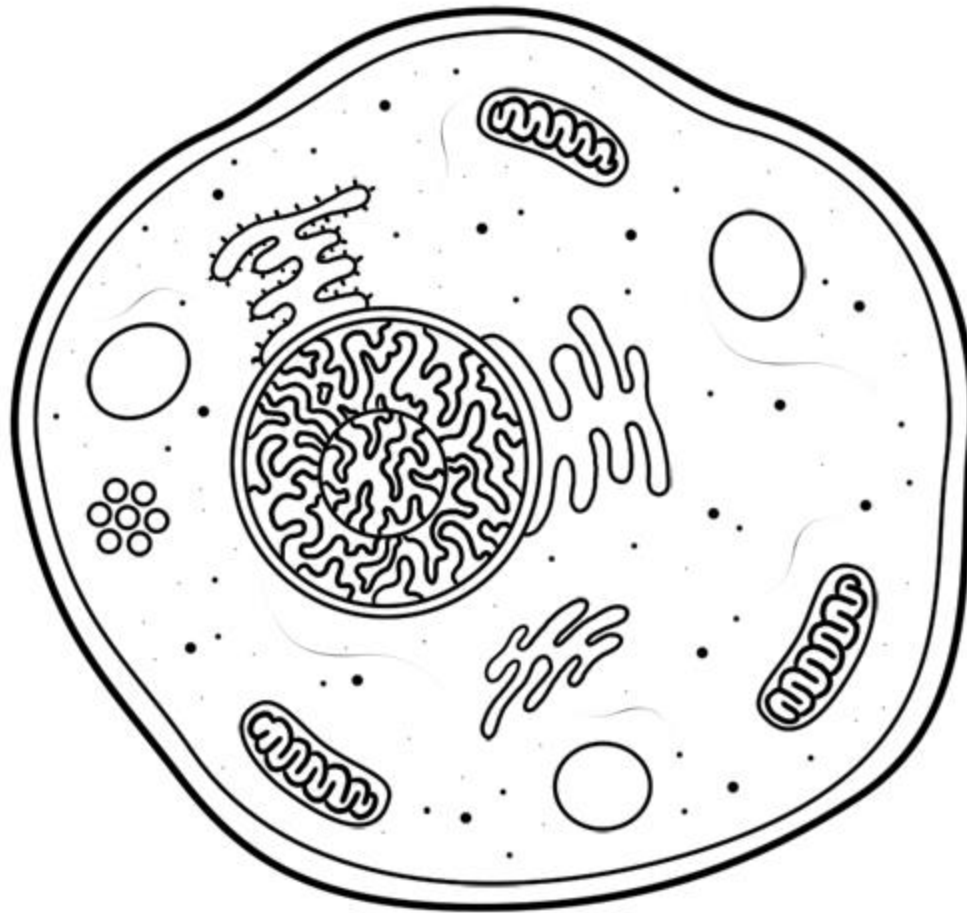




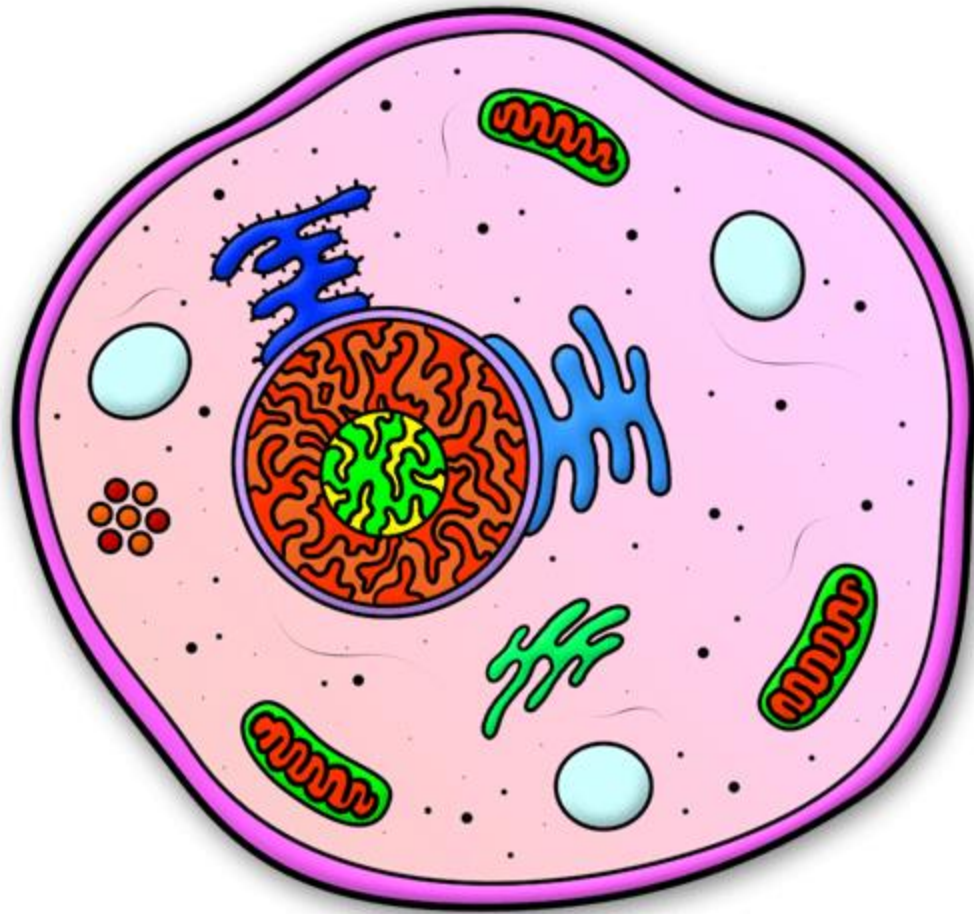




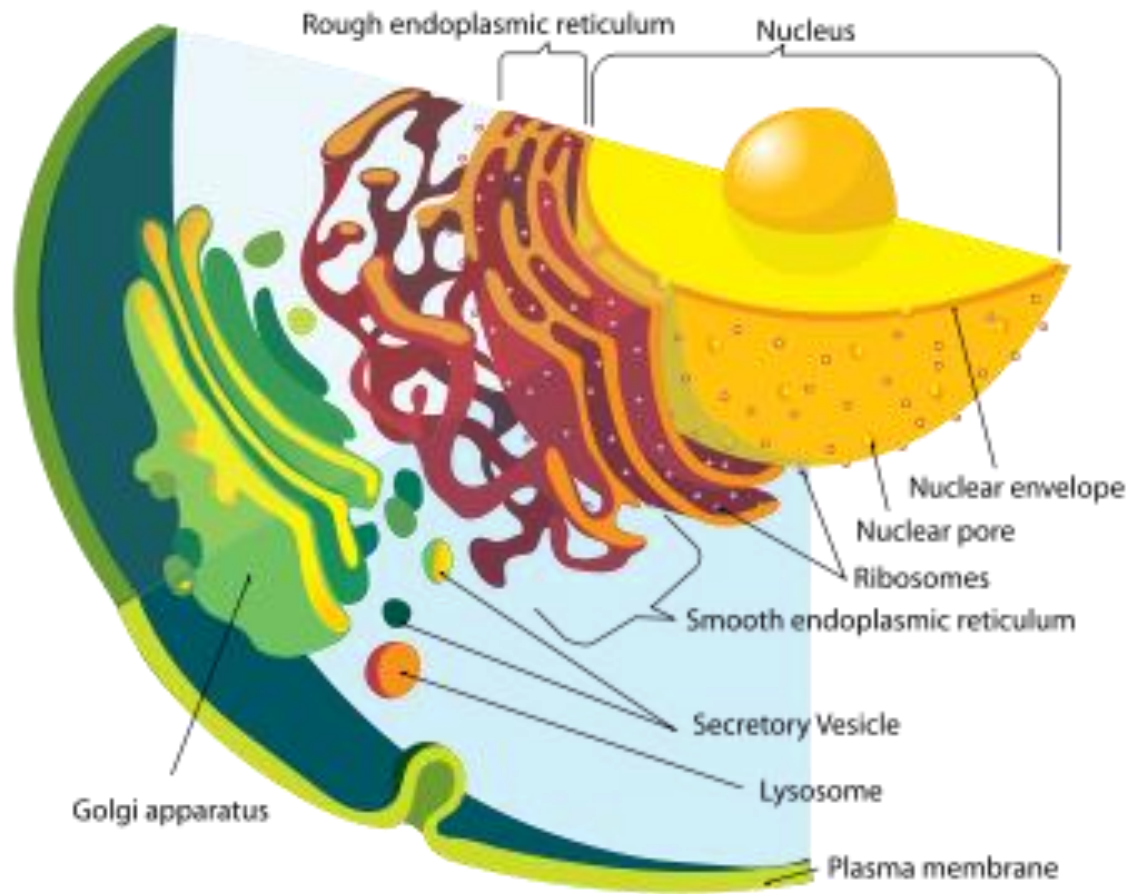
And finally... finish it off with lots of little details



- thus completing the **cytoplasm**



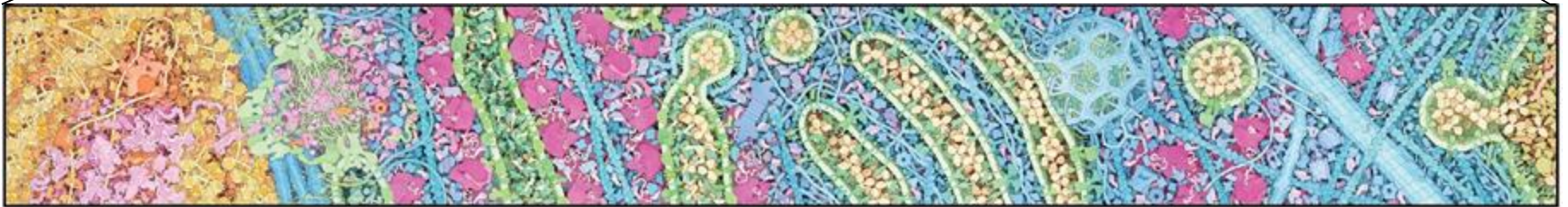
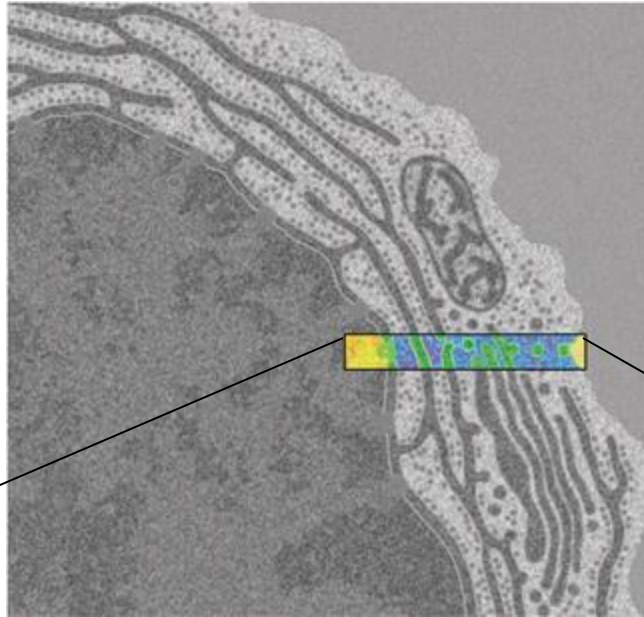
And you're done!



http://en.wikipedia.org/wiki/Animal_cell

Tour of a Human Cell

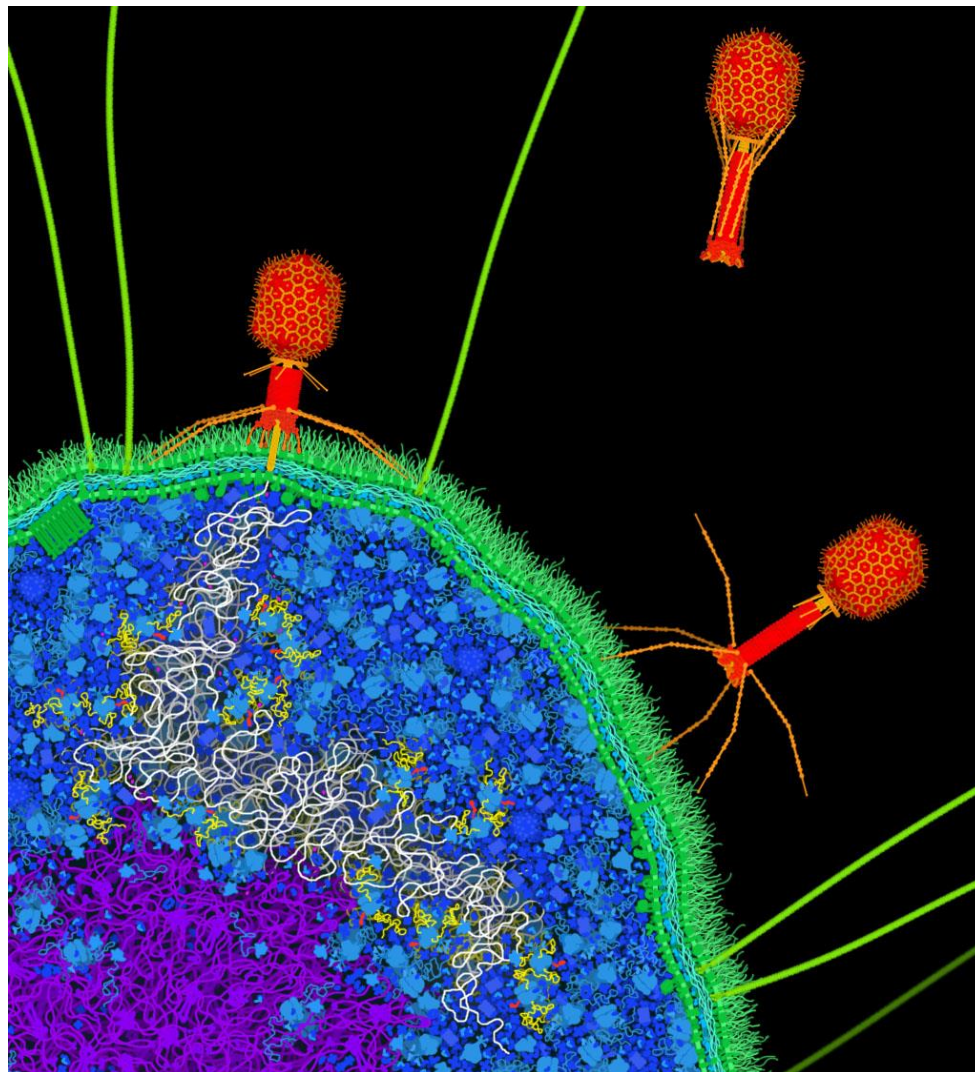
An electron micrograph of an antibody-producing B-cell



Your flu/COVID-19 shot... in action.



Alien Landing....!













Article

Miniseries: Illustrating the Machinery of Life

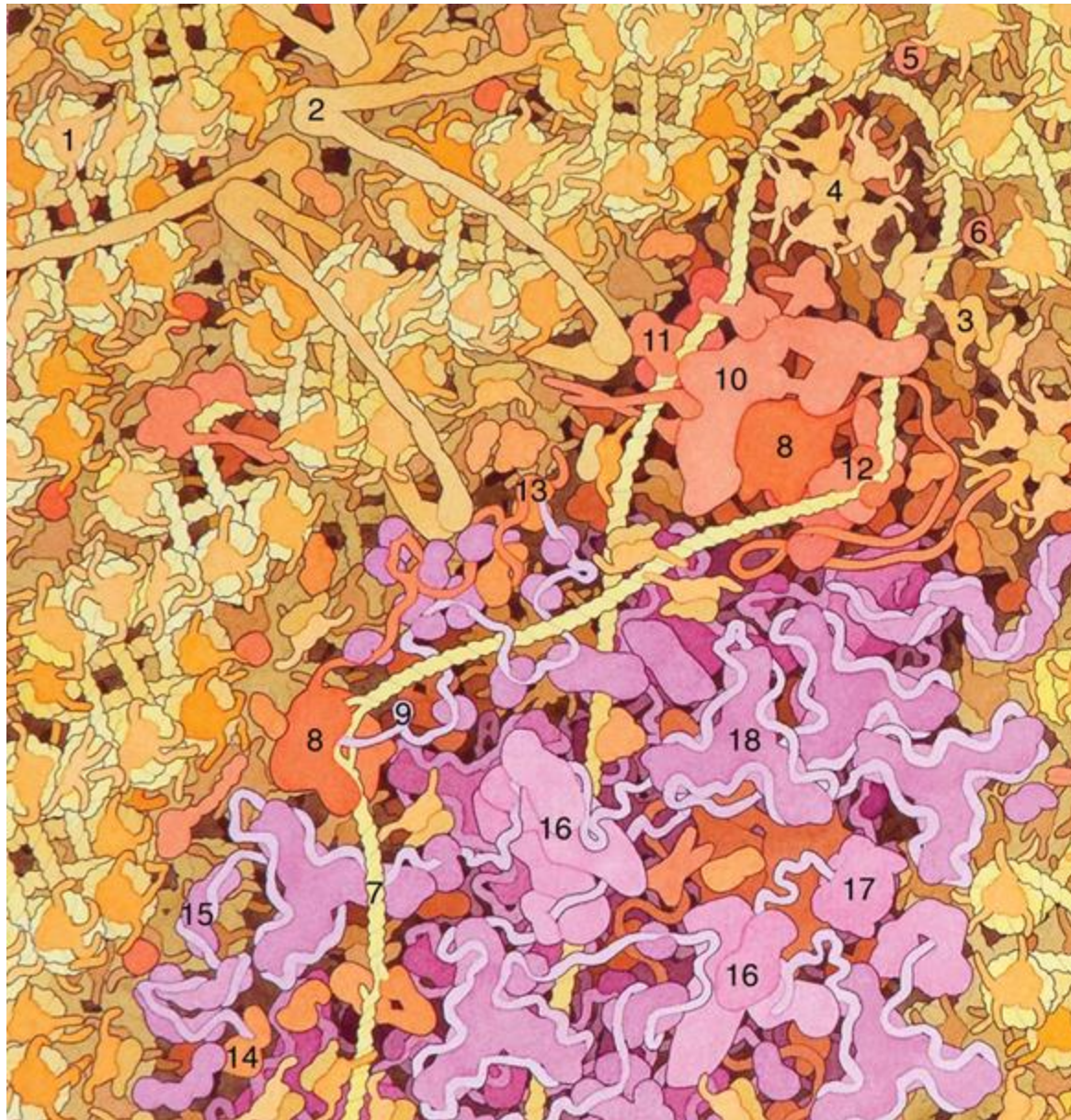
Eukaryotic Cell Panorama

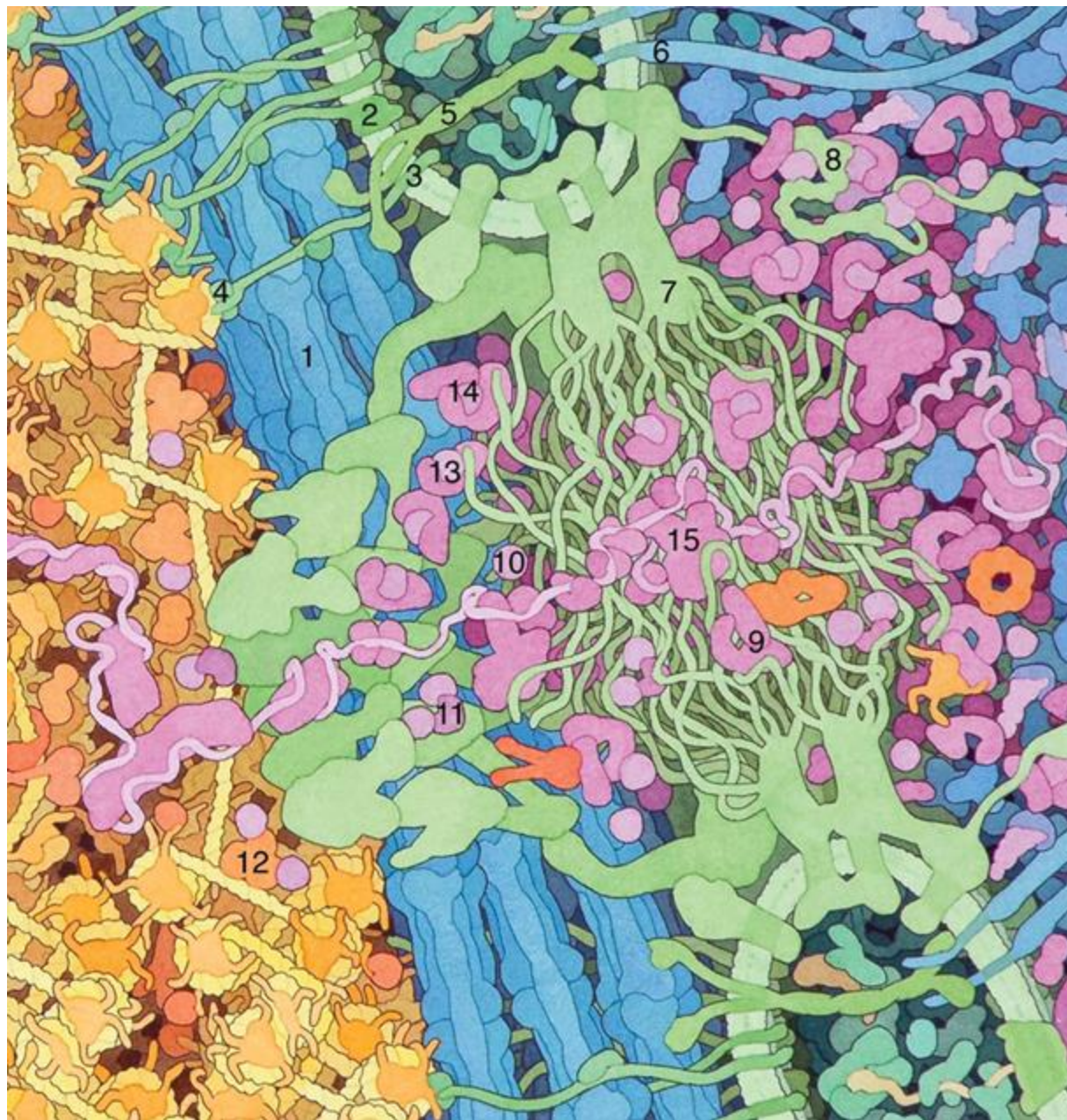
Received for publication, October 7, 2010, and in revised form, December 13, 2010

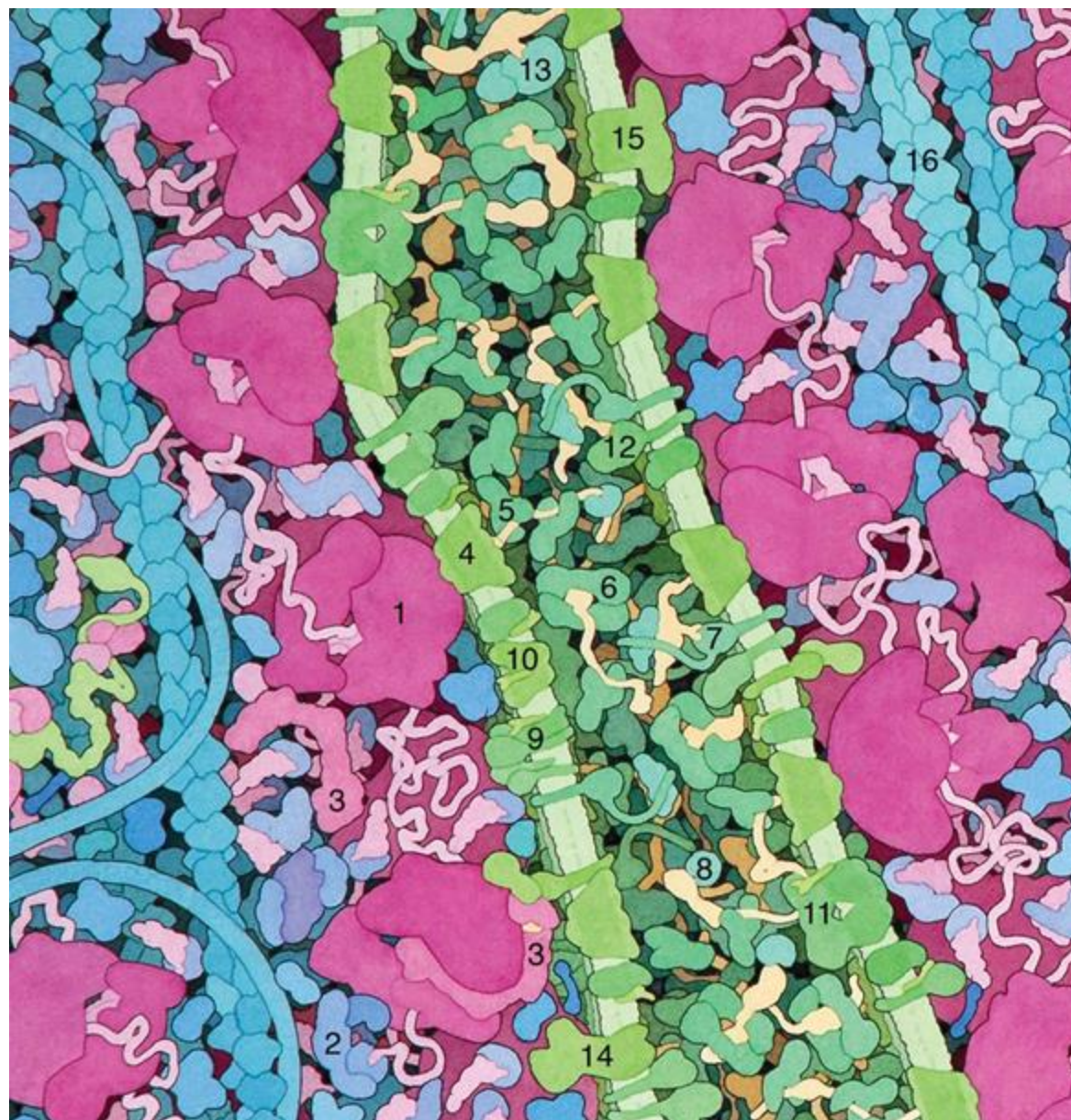
David S. Goodsell†

From the Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA 92102

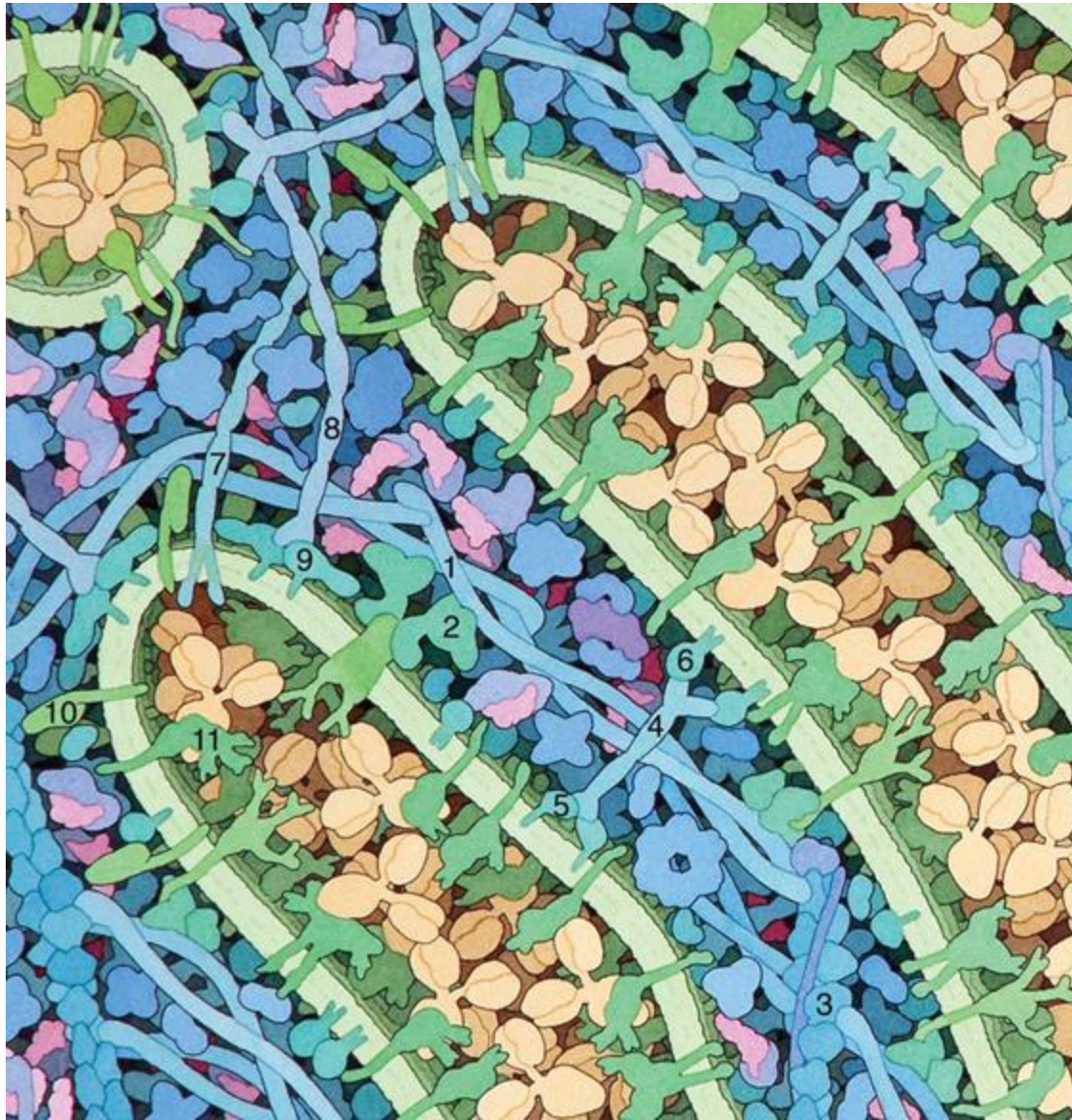
Diverse biological data may be used to create illustrations of molecules in their cellular context. This report describes the scientific results that support an illustration of a eukaryotic cell, enlarged by one million times to show the distribution and arrangement of macromolecules. The panoramic cross section includes eight panels that extend from the nucleus to the cell surface, showing the process of protein synthesis and export. Results from biochemistry, electron microscopy, NMR spectroscopy and x-ray crystallography were used to create the image.

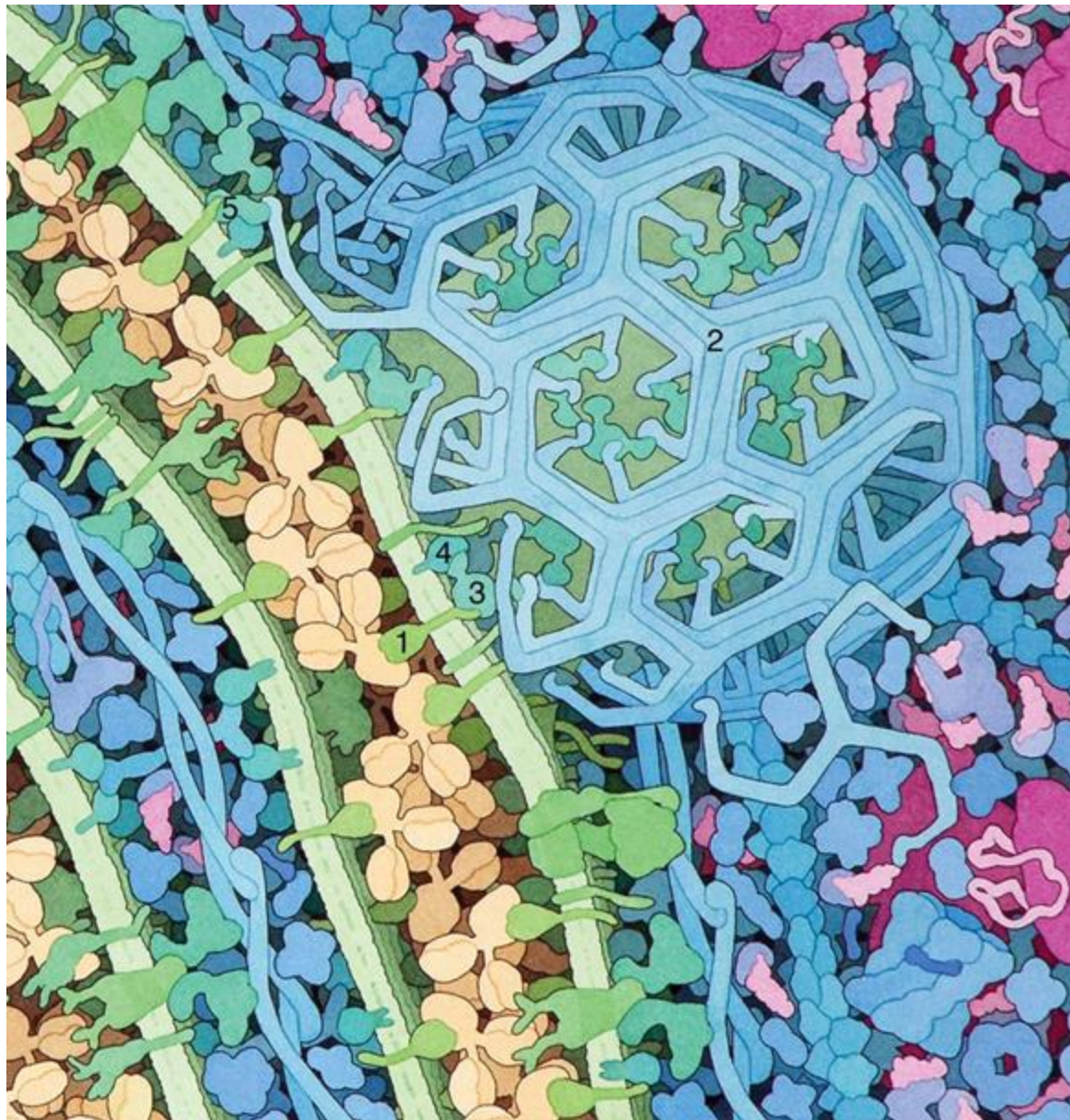


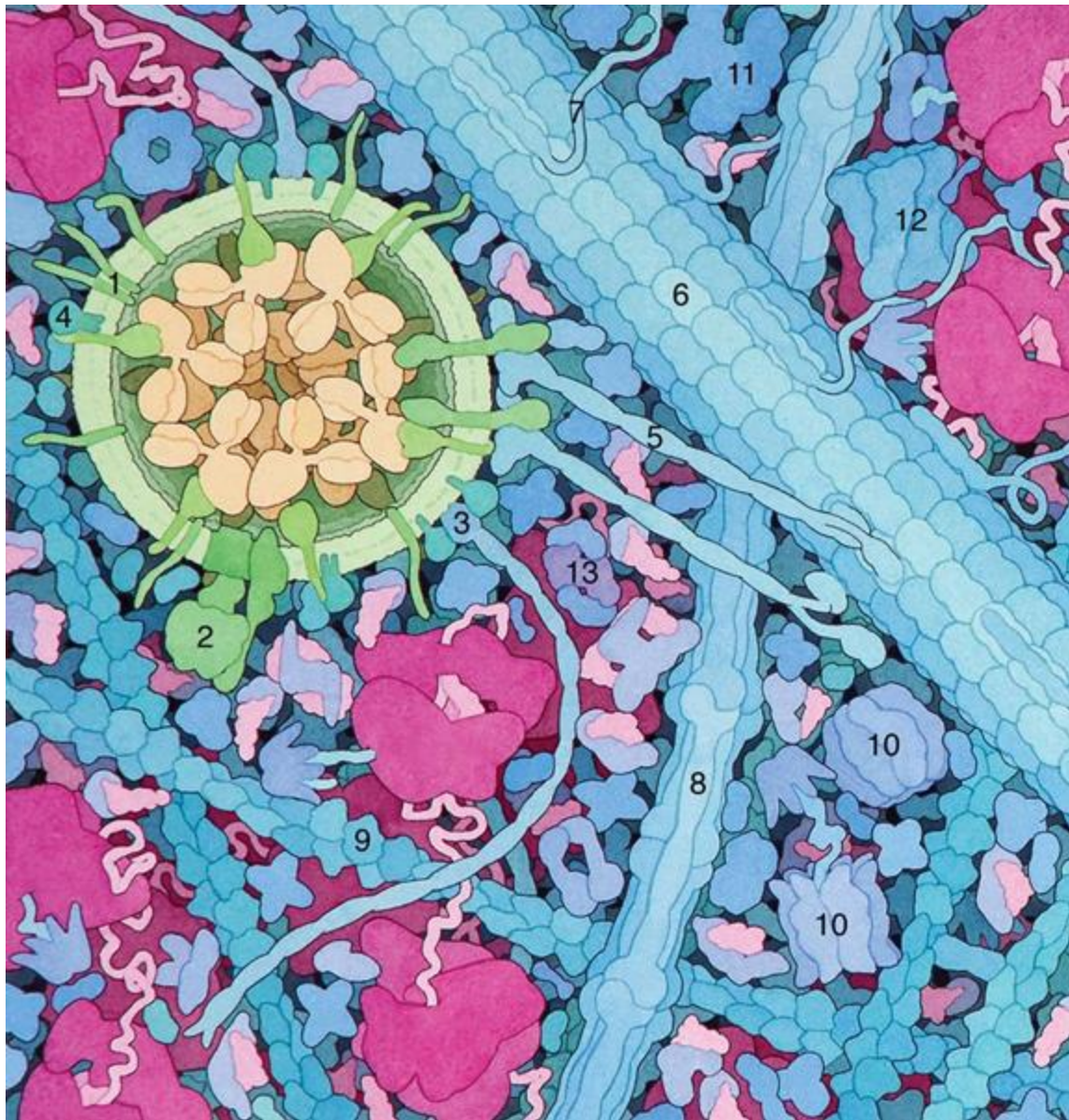






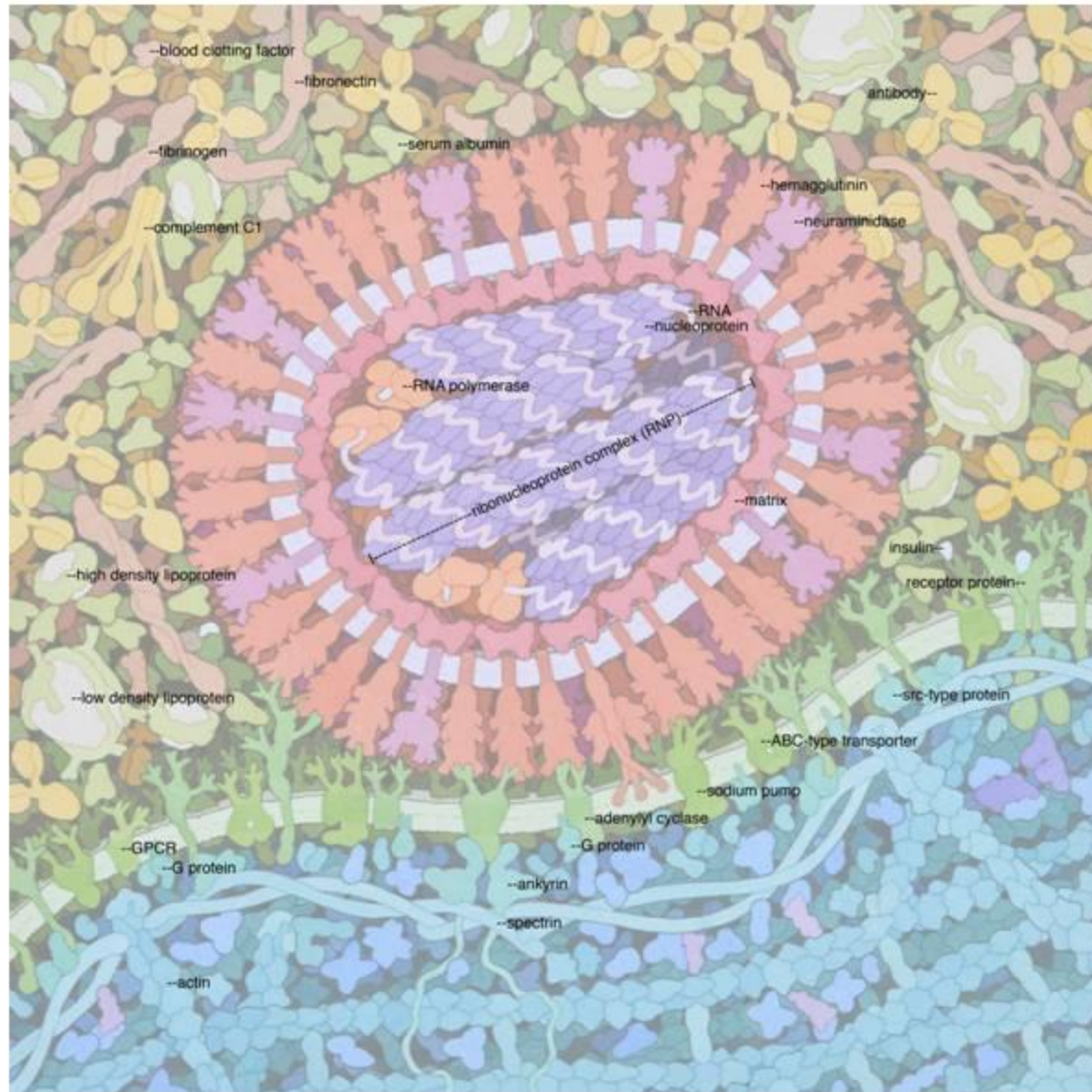




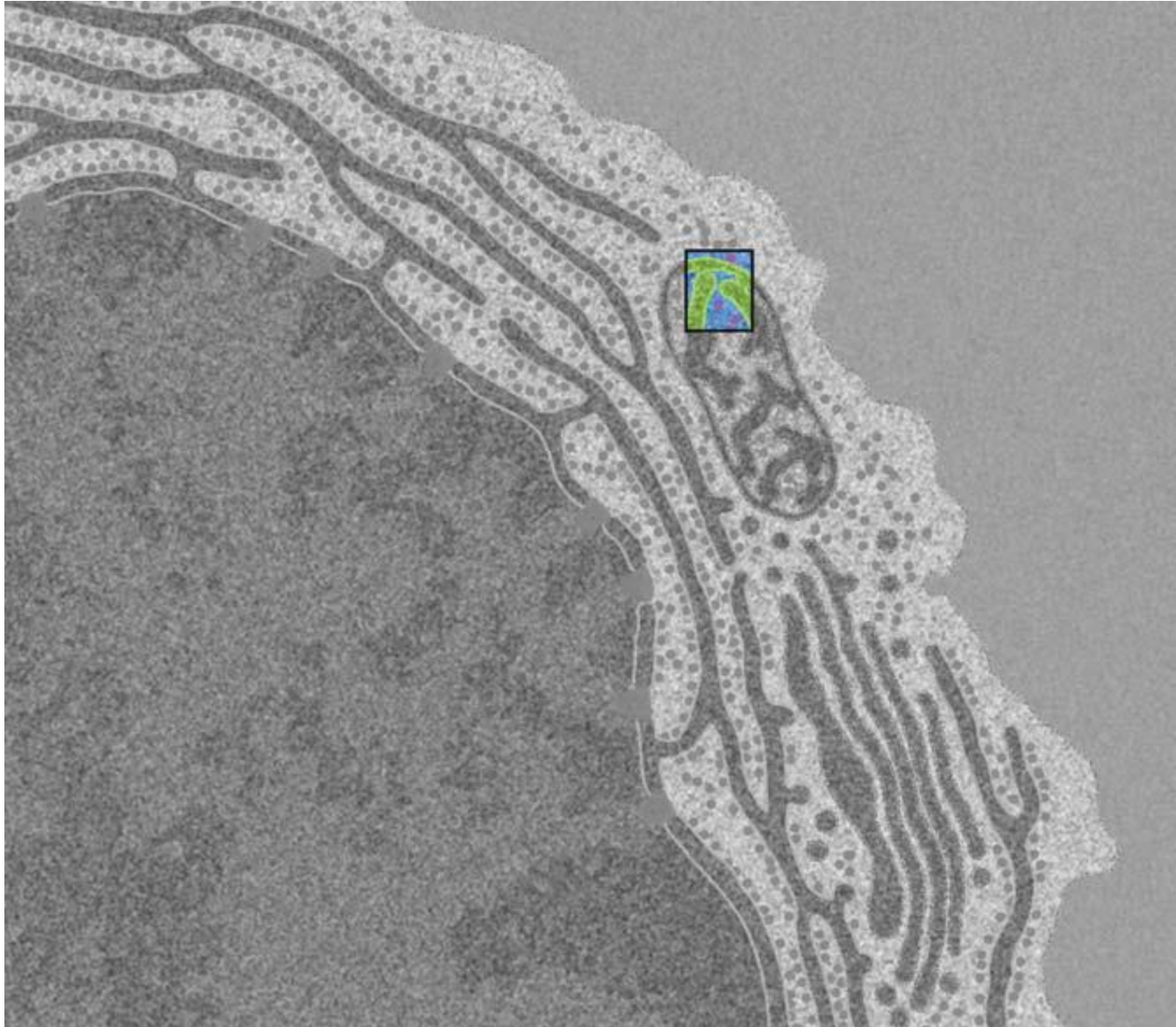


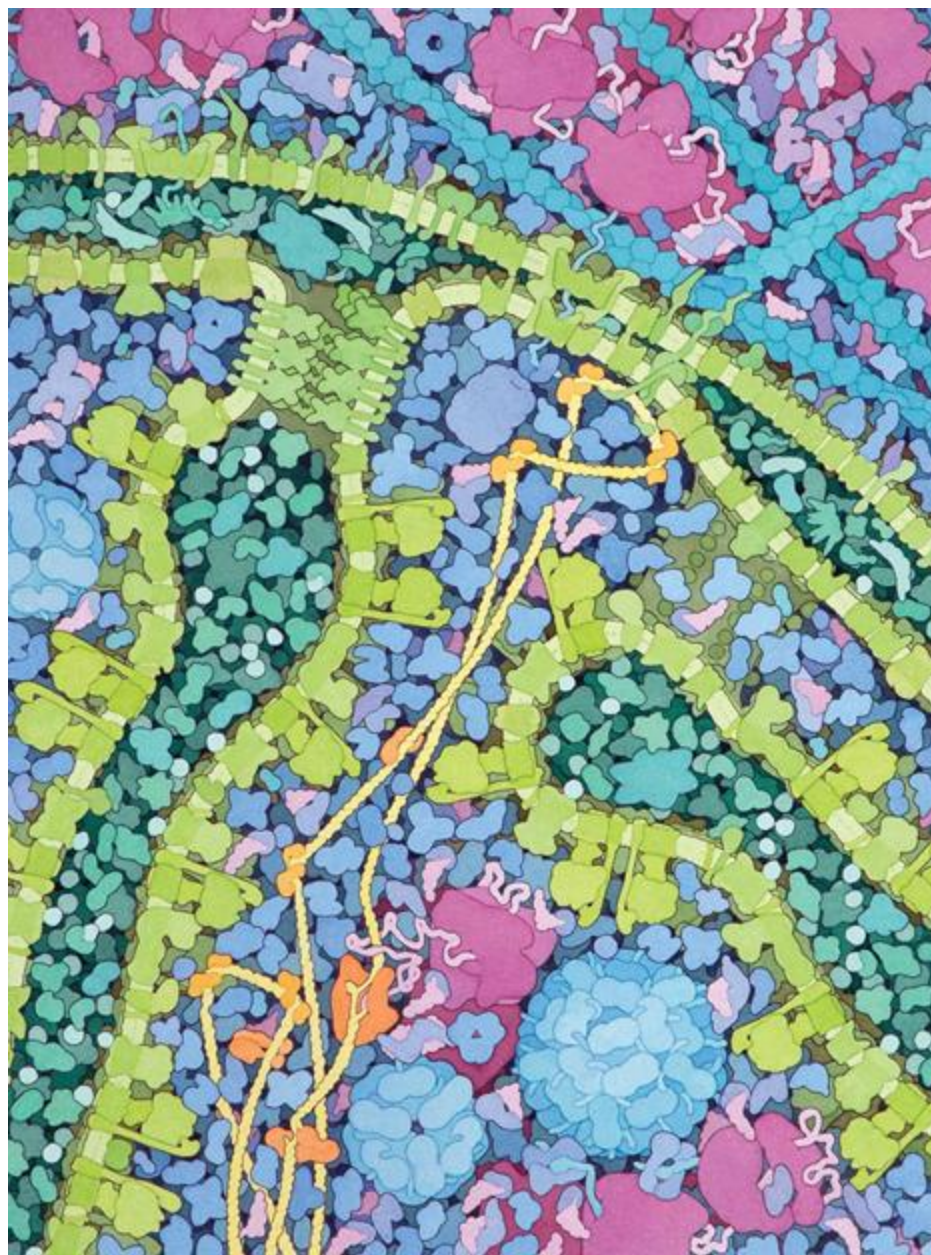




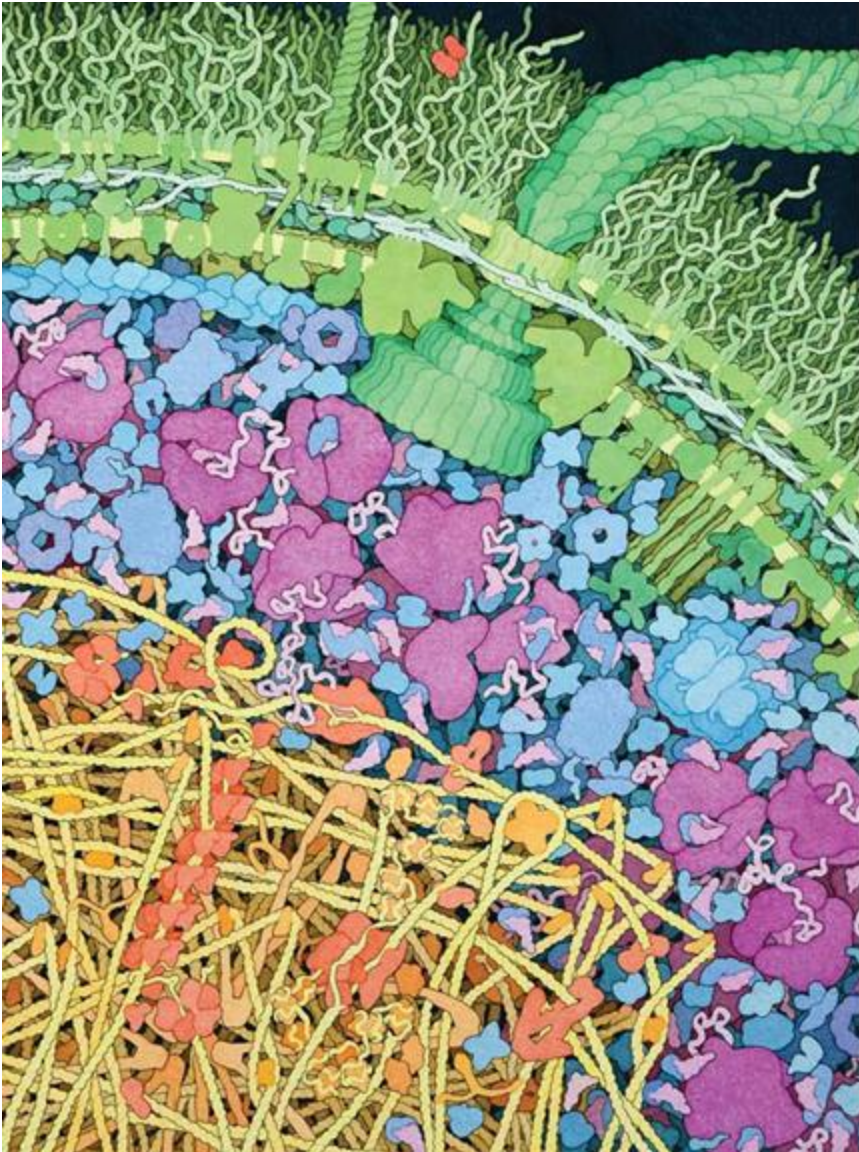








E. coli



Mitochondrion

