

The birth of complex cells

[Life](#)



Having more understanding of how the process of scientific inquiry works, the more I felt that science is a result of efforts made by scientists through the accumulation of time. For example, in order to provide an evidence that the start of a complex cells begins with having an ancestral cells hosting other living cells, scientists first need to search for an evidence that that living cell did exist.

Then, they have to provide an evidence HOW did the host cells symbiosis with the living cell. Hence, being able to see how science is conducted, I really appreciate all the perseverance and patience the scientists put into a research just to find ONE evidence to support/overthrow a theory. 2. The osmosis and strawberry DNA extraction lab allows me to understand how our cell membrane works and what it is made for. With the osmosis lab I understood how water follows from low concentration to high, and this experiment is important not to how the nutrients are transported in and out of our cell through osmosis.

From the strawberry DNA extraction lab, we first added detergent to dissolve the outer membrane causing the strawberry DNA to isolate from the rest of the residual product. This allows us to know that membranes are made of lipids, which dissolve in detergent, giving us more clue on how did our ancestral cells "endosymbiosis" another living cell by making its way through the membrane. After reading this article I still wonder, in the beginning when the complex cells are forming, why didn't the ancestral cell tell the living cell apart from itself?

Why our ancestral cell didn't just eat and dissolve that living cell, instead symbiosis with it? 4. I like the way the article discusses not only about the different possibilities of how a cell might have formed, but also the point of views the scientists have now and then. Another thing I really enjoy reading about this article is that it carefully written out all the steps a scientist did to conduct an experiment, including the challenges and the outcome he received.

Yet, on the other hand, I feel like this paragraph contains way too much information needed for a beginner in biology to understand, including all the definitions of biological terms. 5. Yes, this paper really allows a student in biology to understand the origin of a cell, and how we became to be. Yet, I WOULD recommend this project to be assign later on in the class because it contains great amount of information, and students would learn better corresponding to the knowledge they have.