



why do we have

- Viral Eukaryogenesis -



Like you, eukaryote has a nucleus inside the cell. This is an outstanding characteristic of us,

comparing with another kingdom of life. However, we still do not know the exact nuclei-acquiring process(es). In 2001, I proposed a new hypothesis that the eukaryotic nucleus had evolved from large DNA viruses such as poxviruses infected to ancestral eukaryotic cells. To date, this idea is called as "Viral Eukaryogenesis." Our final goal of the research is to elucidate the biological process of obtaining the nucleus during the co-evolution of eukaryotes with giant viruses. Understanding the viral eukaryogenesis must expand the wisdom of mankind. Furthermore, this knowledge can be applied in many areas such as cancer treatments, drug developments and producing vaccines.



Masaham Takemura

< Viral Eukaryogenesis >

Takemura Lab.

#0103, Tokyo University of Science Kagurazaka Campus building No. 5, 12 Ichigayafunagawaramachi, Shinjuku City, Tokyo 162-0826



https://www.facebook.com/ giantvirusbiology/



This poster was designed by M.A., S.F., M.K., K.A., H.T., K.S., M.K. and M.T. © 2019 Takemura Lab. All rights reserved.