Review of: "Electron Tunneling in Ferritin and Its Potential Influence on Myelin and Cardiomyocytes"

Quan Dong[1]

1 George Washington University

Potential competing interests: No potential competing interests to declare.

Quantum biology is an emerging field that studies the quantum phenomena in biology. Recently, more and more evidence indicates that the quantum effect might play an important role in biological systems. This review aims to raise awareness of the understudied phenomenon perspective in quantum biology, specifically electron tunneling in ferritin. The author introduced us to the current study that focuses on quantum tunneling within myelin and cardiomyocytes and provided the evidence supporting this quantum tunneling effect and hypotheses for explaining saltatory conduction in myelin and the repolarization reserve mechanism in cardiomyocytes. This review helps raise awareness of electron tunneling associated with ferritin and facilitates researchers, who are unfamiliar with the physical phenomenon, to start their research on this topic by providing the established hypotheses in the field. Further studies on quantum tunneling might contribute to a better understanding and treatment of certain neurological and cardiac diseases, such as AF and multiple sclerosis, which can be very impactful.