



life



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What Is Life?

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Message from the Guest Editors

In 1944, Erwin Schrödinger published his seminal book “What is life?” which inspired generations of biologists. Despite amazing discoveries in biology (the DNA double helix, the genetic code, whole genomes sequencing, the structure of proteins, epigenetics...) we still struggle to define exactly what life is. The 80th anniversary of Schrödinger's essay seems to us the ideal time to ask the question again, in light of today's knowledge. This Special Issue plans to give an overview of the most recent advances in this research field as well as new considerations in the definition of life. Potential topics include, but are not limited to: The definition of life The role of water in biological mechanisms; How living organisms handle time constraints; Electrostatic potential in biology; Quantum mechanisms in biology; Impact of silent mutations in evolution; Intrinsically disordered proteins, moonlighting proteins and their roles in biology; New insights in the origin of life - astrobiology; Synthetic biology; Are viruses alive?



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Special Issue



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Message from the Editor-in-Chief

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