

Special Issue

The Rules of Life Rethought: Latest Progress in Quantum Biology

Message from the Guest Editors

Over the last decade, the field of quantum biology has been propelled by experimental and theoretical efforts that have led to remarkable discoveries at the interfaces of traditional disciplines. Non-trivial quantum effects are now considered central to diverse phenomena, such as photosynthesis, certain enzyme-catalyzed reactions, magnetoreception, and spin effects in biochemical reactions, to name but a few. While the idea of a quantum advantage was central to early developments, the field is now increasingly considered to encompass all biological phenomena for which the language of quantum mechanics provides the most natural description. This Special Issue aims to explore and celebrate the diverse and emerging field of quantum biology from an interdisciplinary perspective, spanning the arc from behavioral biology to theoretical physics. Observational, experimental, and modelling studies that showcase the latest developments in the field are highly encouraged.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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