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Disorder and Biological Physics

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Message from the Collection Editors

It is not an uneducated guess that the concept of and analytic tools associated with entropy will find an increasing role in biological physics (or physical biology), which has its central focus on heterogeneity and activity (e.g., diversity and life). We therefore put forward this Special Issue intended to consider any statistical theory, method, model, or approach aiming to answer a specific biological question. This implies that thermodynamic terms be extended beyond their natural framework, while they still carry a load of thermodynamic implications. Specification of applicability conditions are encouraged so that formally correct relations may acquire explanatory and predictive value.

mdpi.com/si/105936

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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