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Biophysical methods, like NMR and crystallography, yield high-resolution data, but require large amounts of material. If a large RNA molecule is the target of such a study, it has proven useful to first study smaller domains of it because of experimental and financial limitations.

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has been the way in which the determination of the structures and dynamical properties of proteins and nucleic acids has so often led directly to a profound understanding of the nature and mechanism of their functional roles.

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Biophysical chemistry - Wikipedia

Biophysics is an interdisciplinary science that applies approaches and methods traditionally used in physics to study biological phenomena. Biophysics covers all scales of biological organization, from molecular to organismic and populations. Biophysical research shares significant overlap with biochemistry, molecular biology, physical chemistry, physiology, nanotechnology, bioengineering ...

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Biophysics - Wikipedia

Biophysicists have developed sophisticated diagnostic imaging techniques including MRIs, CT scans, and PET scans. Biophysics continues to be essential to the development of even safer, faster, and more precise technology to improve medical imaging and teach us more about the body's inner workings.

What Is Biophysics? | The Biophysical Society

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