

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, computational biology, biomechanics, developmental biology and systems biology.

The term biophysics was originally introduced by Karl Pearson in 1892. The term biophysics is also regularly used in academia to indicate the study of the physical quantities (e.g. electric current, temperature, stress, entropy) in biological systems. Other biological sciences also perform research on the biophysical properties of living organisms including molecular biology, cell biology, chemical biology, and biochemistry.

In the present book, fifteen typical literatures about Biophysics published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Biophysics. We hope this book can demonstrate advances in Biophysics as well as give references to the researchers, students and other related people.¹

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¹ <https://en.wikipedia.org/wiki/Biophysics>