

The Effects of Hertz's Model Parameters on Analysis of Atomic Force Microscopy (AFM) Data for Cardiac Cell

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Cell mechanics is one of the fields of biomechanics that is about studying the mechanical behavior of cells. In this study, by using experimental data obtained from the previous work on cardiac cell, Hertz's model is investigated. It shows that bluntness has good effects on atomic force microscopy (AFM) data analysis results and also it shows that the conical probe is not suited. Moreover the different methods to calculate modulus of elasticity have approximately the same results.

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