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سمینار هفتگی ماده چگال نرم

A brief review of some membrane shaping mechanisms

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چکیده

It is essential for the cell to exchange materials with its external world to regulate its function. Lots of these materials enter the cell through endocytosis process. In this process, deformation of the membrane plays a significant role. We will briefly discuss different mechanisms leading to membrane deformation. As an example, we will address the role of BAR domain proteins in membrane bending, and review some experimental methods and simulations which are used to study the effect of these proteins on the mechanics and the shape of membranes.

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