

Webinar

Investigation of Role of Cosolutes on Conformational Landscape of Macromolecules

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In response to the extreme environmental condition, many organisms accumulate small organic molecules (cosolutes) inside the cell, which can alter the conformational equilibria bio-macromolecules. The molecular mechanism of of of macromolecules (such protein) stabilization as bv cosolutes is still controversial irrespective of extensive studies of several decades. We try to explain the mechanism of cosolutes induced stabilization of macromolecules and assembly preferential macromolecular terms of in interaction theory in the context of osmolyte-induced stabilization, bio preservation and maintenance of cellular homeostasis. Our studies unify the mechanism of the overall stability macromolecules irrespective of the of binding/exclusion of cosolutes to/from the macromolecular depending different cosolutes surface and on macromolecular complex topology surfaces in а of hydrophobic and electrostatic interactions.

Tuesday, Sep 29th 2020 2:00 PM