

## Multiple states of proteins in vitro and in cells

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The 3D structure and dynamics of proteins are key of their functions. Proteins undergo thereby structural changes from one state to another one.

With the advent of exact NOEs structural ensembles of proteins are determined at atomic resolution highlighting this structure-dynamic mechanism in the case of enzymes and protein allostery in vitro. In parallel, in cell NMR shows the presence of multiple structural states inside a cell that interchange both in the slow and fast exchange dynamics regime indicating that a protein exists in vivo on a structural landscape rather than a single state.

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