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# Insights on the Conformational Dynamics of Human Frataxin through Modifications of Loop-1

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**Running title:** Dynamics of loop-1 mutants of frataxin

## Highlights

- Loop-1 mutants of frataxin were designed to alter conformational dynamics.
- Tertiary structure is mainly unaffected by the mutations.
- Mutations result in both local and long-range effects on dynamics.
- Iron binding and cysteine desulfurase activation are differentially affected.

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