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Title: Protective effects of curcumin against gamma ray induced conformational change of Human Serum Albumin

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Highlights:

1. Gamma radiation induced conformational change of HSA.
2. Significant alteration in secondary structure analysed by CD and FTIR spectroscopy.
3. Remarkable reduction in excited state lifetime of tryptophan in HSA.
4. Bityrosine profiling of irradiated HSA indicated enhanced formation of *ROS* species.
5. Effective protection was showed by curcumin for low doses of irradiation.

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