

## **Resolving structural dynamics in blue-light photoreceptors through 2D IR spectroscopy**

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BLUF domains constitute a class of blue-light photoreceptors that show light-induced conformational changes ranging from ultrafast sidechain fluctuations to large scale changes in secondary structure. Here, we present results from 2D IR spectroscopy on an isotopically labelled BLUF domain to investigate its photoswitching mechanism.