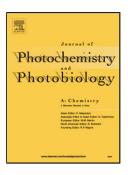
## Accepted Manuscript

Title: New pyridoxal based chemosensor for selective detection of  $Zn^{2+}$ : application in live cell imaging and phosphatase activity response

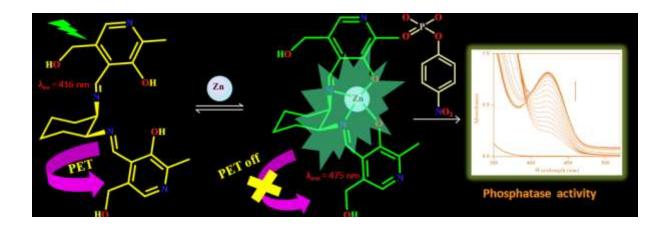
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We reported a pyridoxal-based reversible chemosensor,  $H_4PydChda$ , exhibiting selective turn-on response for  $Zn^{2+}$ . The experimental and theoretical supports are provided to establish the binding mode of  $H_4PydChda$  to  $Zn^{2+}$ . The **prob-Zn**<sup>2+</sup> ensemble is capable of showing appreciable phosphatase activity with NPP substrate.

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