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Title: New pyridoxal based chemosensor for selective detection of Zn²⁺: application in live cell imaging and phosphatase activity response

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We reported a pyridoxal-based reversible chemosensor, **H₄PydChda**, exhibiting selective turn-on response for Zn²⁺. The experimental and theoretical supports are provided to establish the binding mode of **H₄PydChda** to Zn²⁺. The **prob-Zn²⁺** ensemble is capable of showing appreciable phosphatase activity with NPP substrate.

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