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Title: Imaging of formaldehyde in live cells and plants utilizing small molecular probes with large stokes shifts

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ACCEPTED MANUSCRIPT

Imaging of formaldehyde in live cells and plants utilizing small molecular probes with large stokes shifts

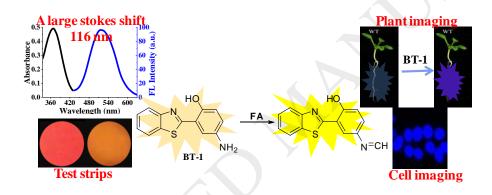
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Graphical abstract

Graphic Abstract



Highlights of the work are as follows.

- 1) BT-1 can selectively detect FA with large stokes shifts, especially in the presence of acetaldehyde.
- 2) BT-1 coated-test strips can differentiate the different concentrations of FA and recognize FA gas from other relative gases by naked eye.
- 3) BT-1 can monitor FA in living MCF-7 cells and detect exogenous and endogenous FA in live Arabidopsis thaliana tissues.

Abstract: The fluorescent imaging of formaldehyde (FA) in live cells and plant

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