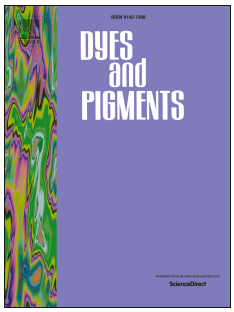
Accepted Manuscript



A phenothiazine-based "naked-eye" fluorescent probe for the dual detection of Hg^{2+} and Cu^{2+}: Application as a solid state sensor

Matinder Kaur, Min Ju Cho, Dong Hoon Choi

PII: S0143-7208(15)00377-0

DOI: 10.1016/j.dyepig.2015.09.030

Reference: DYPI 4941

To appear in: *Dyes and Pigments*

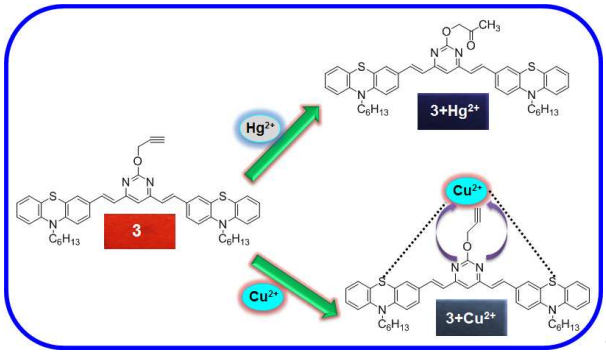
Received Date: 13 August 2015

Revised Date: 24 September 2015

Accepted Date: 25 September 2015

Please cite this article as: Kaur M, Cho MJ, Choi DH, A phenothiazine-based "naked-eye" fluorescent probe for the dual detection of Hg^{2+} and Cu^{2+}: Application as a solid state sensor, *Dyes and Pigments* (2015), doi: 10.1016/j.dyepig.2015.09.030.

Graphical Abstract



A phenothiazine-based fluorescent probe was designed and synthesized for selective detection of Hg^{2+} (*via* Kucherov reaction) and Cu^{2+} (*via* soft–soft metal interactions). Probe could be employed as an optical solid sensor for Hg^{2+} and Cu^{2+} with significant color changes.