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Colorimetric and fluorimetric detection of Hg^{2+} and Cr^{3+}
by boronic acid conjugated rhodamine derivatives:
Mechanistic aspects and their bio-imaging application in
bacterial cells

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Abstract

Colorimetric and fluorimetric detection of toxic metal ions such as Hg^{2+} and Cr^{3+} has gained tremendous popularity over the conventional methods due to their operational simplicity, high selectivity, and speediness. Although numerous colorimetric and fluorescent receptors for Hg^{2+} or Cr^{3+} were reported in the literature, boronic acid-based receptors for these metal ions are rather

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