



# **$\beta$ -Cyclodextrin-Modified CdSe/ZnS Quantum Dots for Sensing and Chiroselective Analysis**

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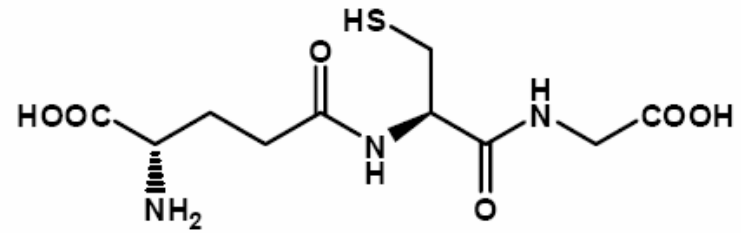
**Ronit Freeman, Tali Finder, LiLy Bahshi, and Itamar Willner**

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The Hebrew University of Jerusalem, Jerusalem, Israel*

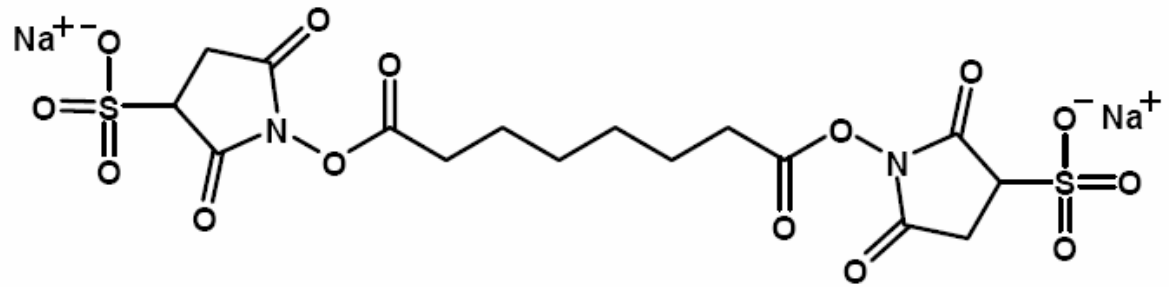
Shibu Sidharth

20-06-09

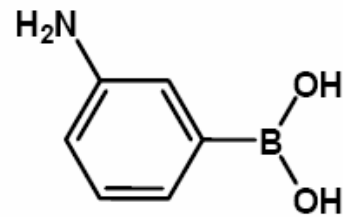
**Glutathione**

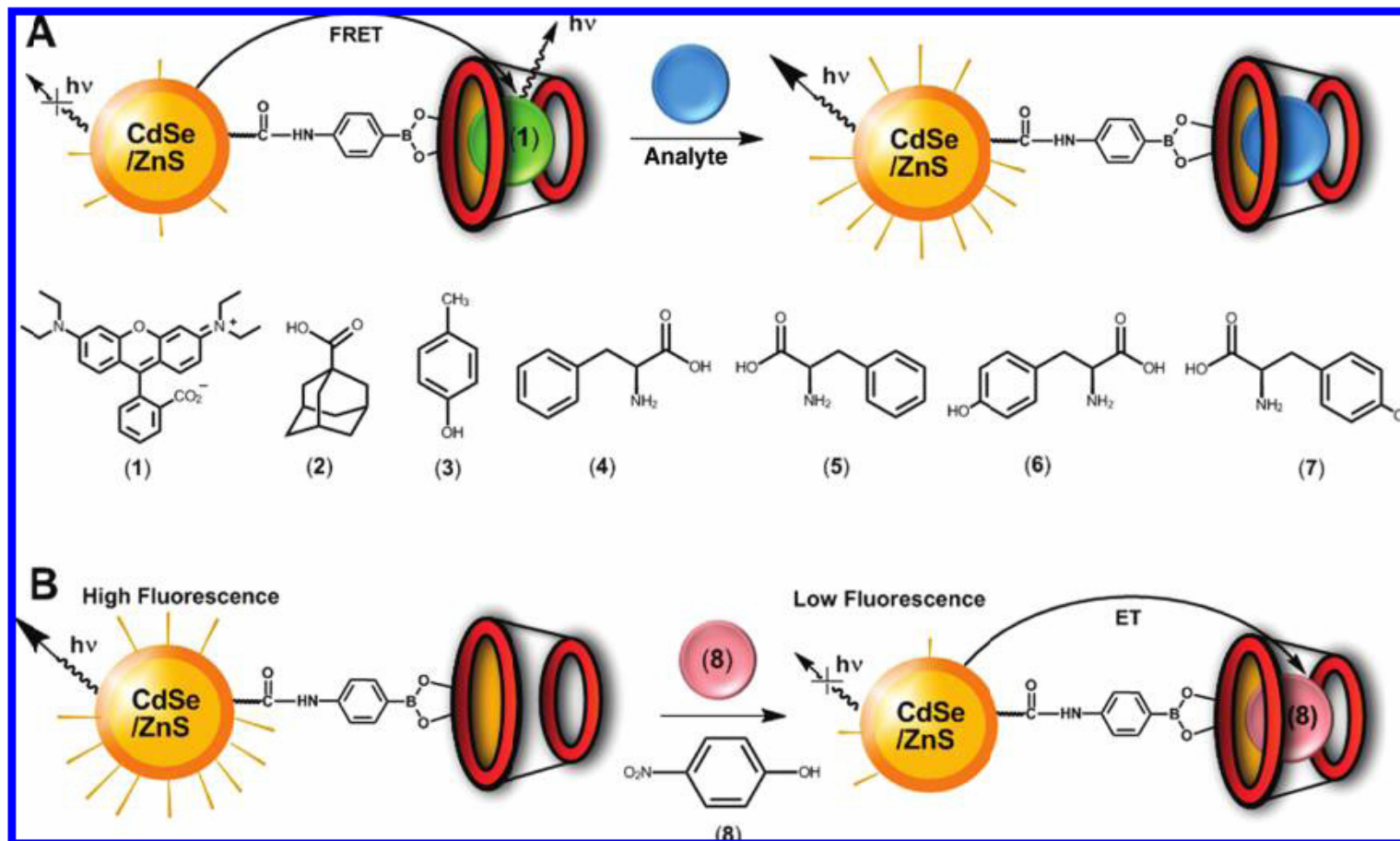


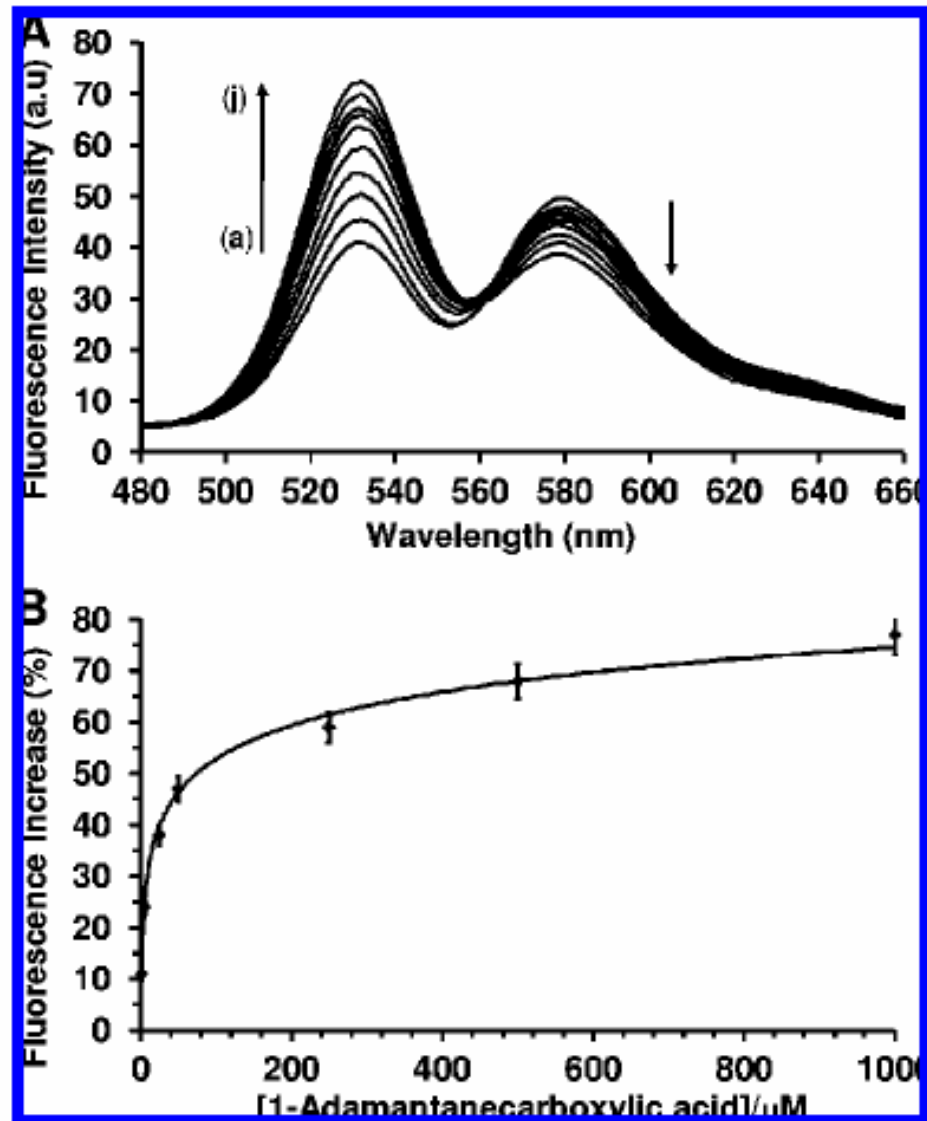
**BS<sup>3</sup>**

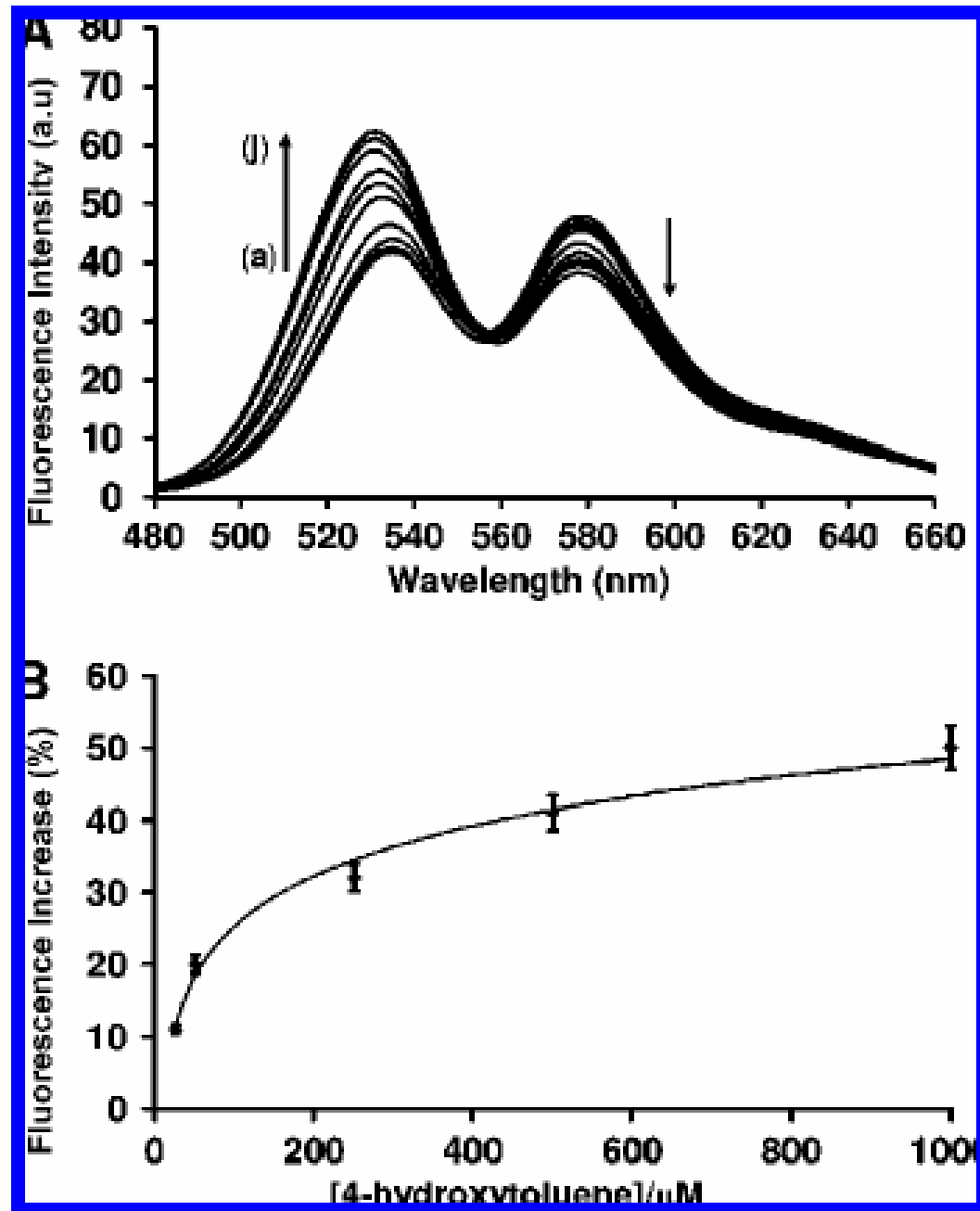
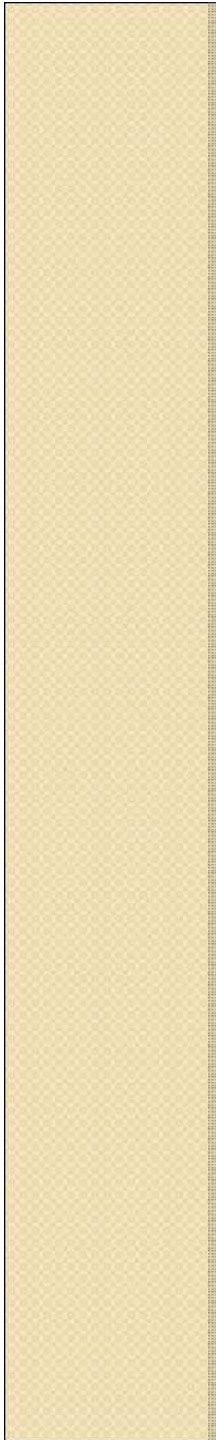


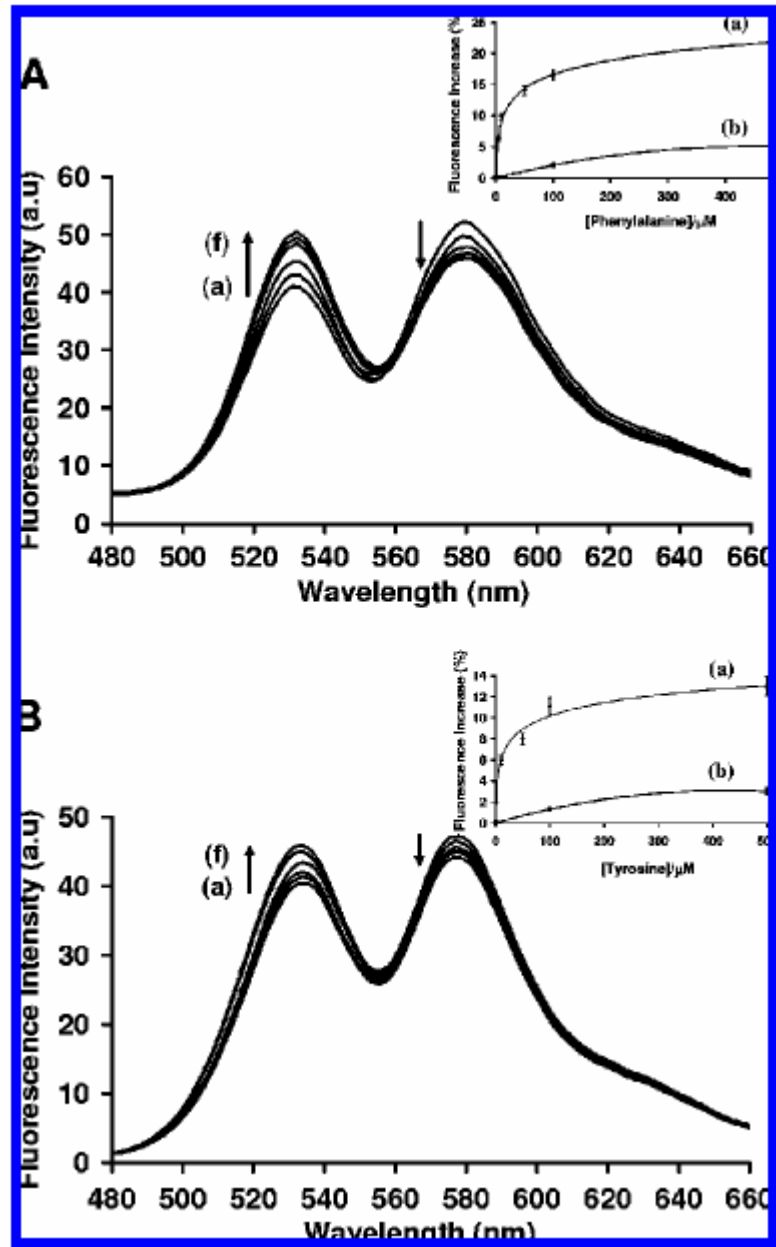
**3-Aminophenyl boronic acid**

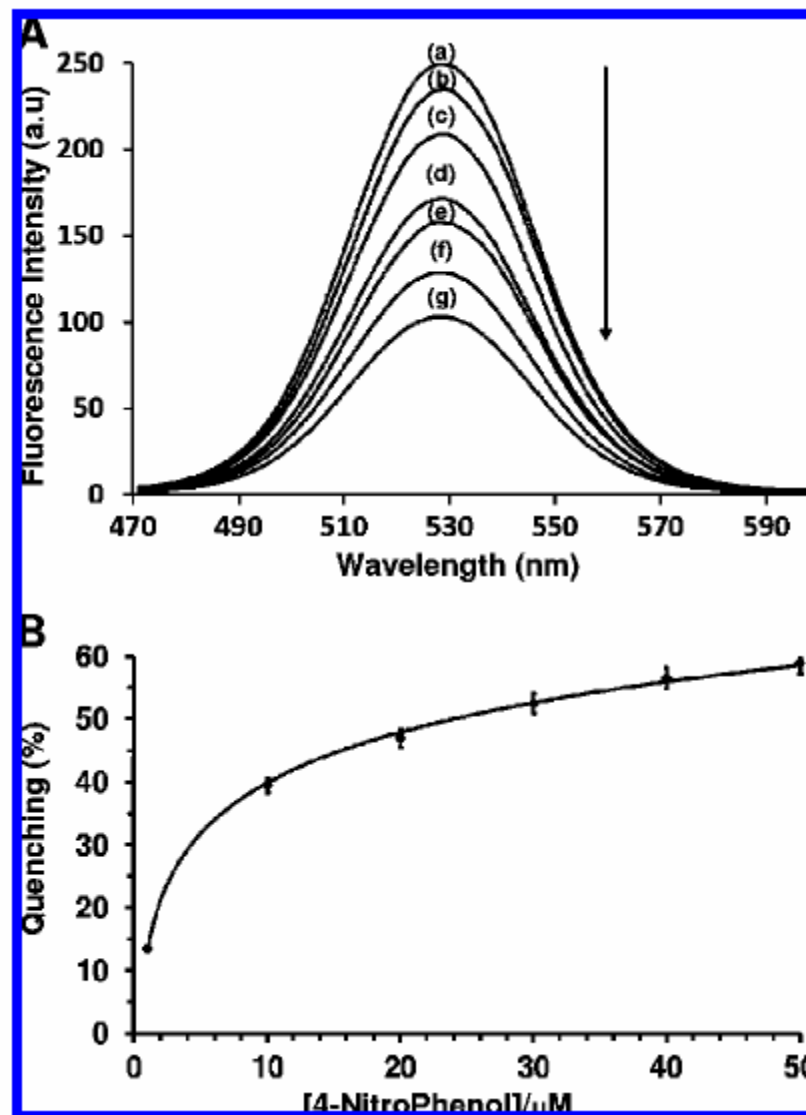












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1. Synthesized CdSe/Zns Q-dots
2. Capped with glutathione
3. Functionalized with  $\beta$ -CD
4. Studied the interaction of analyte using FRET
5. Detected the chiral purity
6. Studied ET