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Colorimetric and Ratiometric Sensors for Manganese (II)

Collaborative Project

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Colorimetric and Ratiometric Sensors for Manganese(II)

Participants

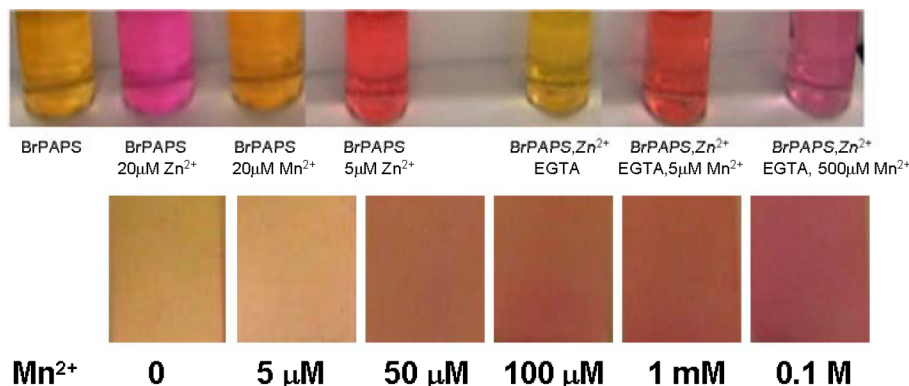
NiKhil Khosla
Zhaohua Dai
James Canary, NYU



Manganese Madness



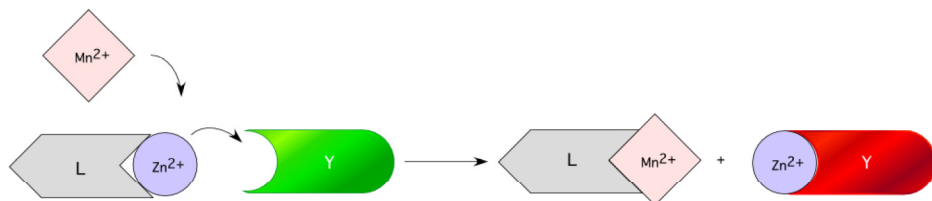
Manganism
Parkinsonism
like features
ADHD



Dai, Z.;* Khosla, N.; Canary, J. W.*
“Visible Color Sensing System for
Manganese(II)”, *Supramol. Chem.* In Press

Overall Goal/Purpose

To develop optical imaging reagents for Mn²⁺ in biomedical and environmental applications



Specific Research Aims

- Formulate complex displacement systems for Mn detection;
- The systems should be selective
- The detection can be done visually and by fluorescence microscope
- The detection should be ratiometric.

**Pace Startup Fund
Scholarly Research Fund**