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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

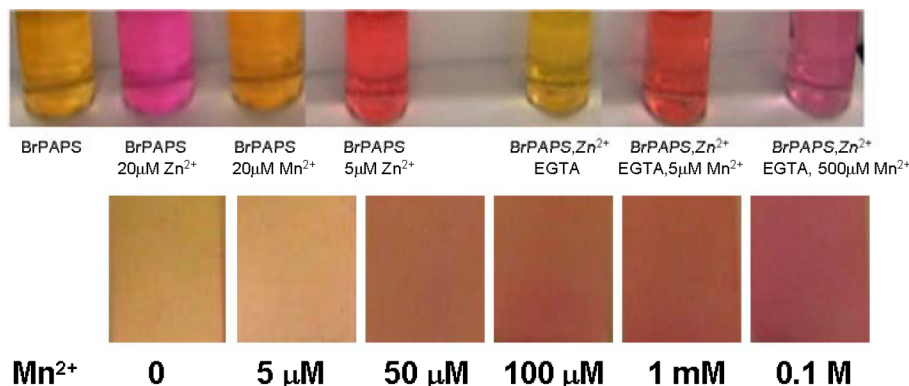
NiKhil Khosla  
Zhaohua Dai  
James Canary, NYU



## Manganese Madness



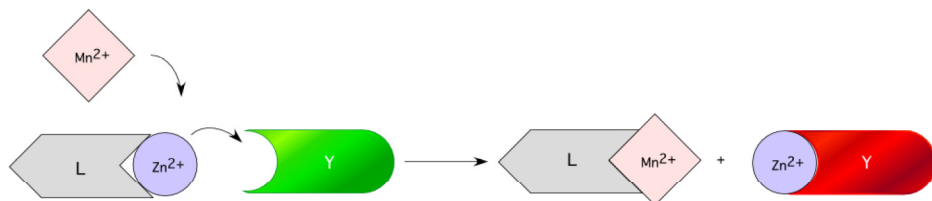
Manganism  
Parkinsonism  
like features  
ADHD



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 Mn<sup>2+</sup> 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.

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Scholarly Research Fund**