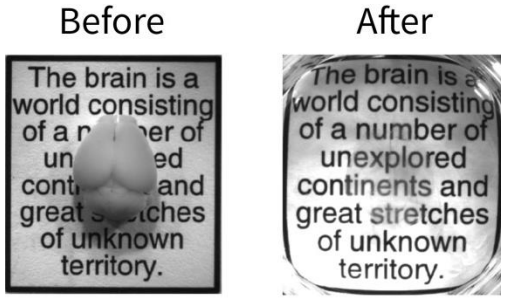
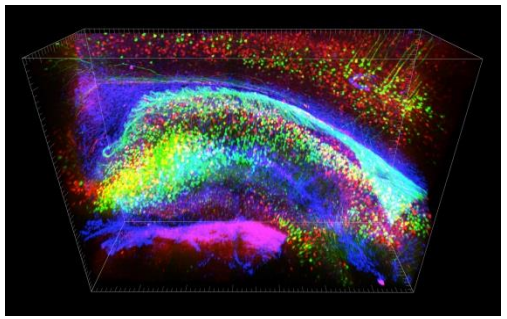
Moments in Materials Presentation:

See-through brains

Speaker: Helen Tran
When: Thursday, June 20th 2013, 4:30 p.m.
Where: NWC, 7th floor meeting room, RM 703

Obtaining a high-resolution image of the mammalian brain is a key challenge to understand the complex wiring involved in brain activity and how its translates to behavior. Current approaches rely on sectioning and reconstruction, which often suffers from alignment of numerous images resulting in insufficient resolution to map large long-range networks. Diesseroth and coworkers developed a new method termed "CLARITY" that renders the brain optically transparent and permeable to macromolecules, allowing direct visualization of the intact brain with conventional fluorescence techniques.





Selected references
K. Chung et al., (K. Diesseroth), *Nature*, **2013**, *497*, pp 332
K. Chung, K. Diesseroth, *Nat. Methods*, **2013**, 10, pp 508