

Questions for Track 1 paper by Cheng et al. Nature Method, 8, 139 (2011)

1. What is the significance of this work? Summarize the motivation behind this work and the instrument that the authors developed.
2. How does this method differ from other methods for in vivo calcium measurement?
3. Explain the significance of the detector that was used in this paper. Discuss the advantages and disadvantages of this detector over other types of detectors.
4. What are the disadvantages of the technique presented in this paper?
5. Explain the significance and the authors' findings of the experiments on the spread of spontaneous activity in the mouse barrel cortex.