

### **Invariant representation of percepts across sensory modalities**

Quian Quiroga, R., Kraskov, A., Koch, C., and Fried, I. (2009) Explicit Encoding of Multimodal Percepts by Single Neurons in the Human Brain. *Current Biology* 19 1308-1313.

[http://www.cell.com/current-biology/abstract/S0960-9822\(09\)01377-3](http://www.cell.com/current-biology/abstract/S0960-9822(09)01377-3)

1. In which parts of the brain do we find cells that can respond in an invariant way to percepts in different modalities?
2. What are the advantages of single cells recording over fMRI?
3. Does the fact that single cells respond in an invariant way to (say) Saddam Hussein support the 'Grandmother cell hypothesis'?
4. How might MTL neurons rapidly form invariant representations of a new stimulus across different modalities?