

## **Categories for Tool Cards**

### **Genomic analysis cards**

Gene identification within species (obtain sequence)

# related genes (e.g. splice variants, homologous genes)

### **Gene product localization cards**

EM to show glial wrap at synapse

In situ hybridization to localize gene product (mRNA)

Immunocytochemistry to localize gene product (protein)

Tagged Gene product transgenic mouse

### **Functional analysis cards**

Transgenic mouse: Deletion (Knock out, mutation) → analyzed how?

Transgenic mouse: Always on, or regulate turning on (constitutive, or regulated expression) → analyzed how?

Pharmacological manipulation

Combo tool card--Imaging/microscopy (can be paired with other cards)

Combo tool card—Electrophysiology (can be paired with other cards)

**Choice card** (choose a method that is not listed in the other cards)

**Consult card** (fee: \$1000 ) buys advice on advantages or disadvantages of methods you are considering

**Skeptic card (justify and prioritize your choices)**