

## I. Key Concepts

- Major excitatory NT in brain: **Glutamate**
- Major inhibitory NT in brain: **GABA**
- Glutamate receptors have 2 large families:
  - Ligand-gated ion channels aka "ionotropic receptors"
  - G protein-coupled receptors called "metabotropic receptors"
- Ionotropic glutamate receptors divided into 3 classes which are named after the synthetic ligands that activate them:
  - **AMPA**
  - **Kainate**
  - **NMDA**
- Individual excitatory synapses typically express several different subtypes of ionotropic glutamate receptors as well as metabotropic receptors
- **NMDA receptors have 2 important biophysical properties (in contrast to AMPA and kainate):**
  - **Highly permeable to Calcium**
  - **Voltage dependent**
  - **ALLOWs CALCIUM ENTRY ONLY IF THE CELL IS DEPOLARIZED**
- AMPA receptors mediate vast majority of excitatory synaptic transmission in brain
  - NMDA receptors play important role in triggering synaptic plasticity and, when over-activated, in triggering excitotoxicity
- 8 subtypes of metabotropic glutamate receptors
  - **When localized to presynaptic terminal, they inhibit NT release**
  - When localized to the postsynaptic membrane, they exert complex modulatory effects thru specific signal transduction cascades, which can lead to **excitatory or inhibitory effects**
- Most studied form of synaptic plasticity: Long-term potentiation (LTP) in hippocampus
  - Triggered by strong activation of NMDA receptors and the consequent **large rise in postsynaptic  $Ca^{2+}$**
  - There are several other types of LTP in the NS and are mediated via different mechanisms
- LTD = long-term depression
  - Long-lasting decrease in synaptic strength
  - Also occurs at most excitatory and some inhibitory synapses in brain
- 2 major classes of GABA receptor

# Ch5study Guide Answer

**Sally Anne Frazer**



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