

# Synaptic Transmission

## Lecture #3

### ***Synaptic transmission – the elementary step of neural communication***

- Factors that determine the strength of synaptic connection
- The strength of synaptic connection at individual synapses
  - Presynaptic
    - Vesicle hypothesis
    - Dynamics of synaptic vesicle turnover
  - Postsynaptic site
    - Co-localization of AMPA and NMDA receptors
    - The biological properties of NMDA receptor
    - AMPA receptor trafficking

#### Background Reading:

(Albright et al., 2000; Malinow and Malenka, 2002; Sheng and Kim, 2002; Stevens, 1993)