

Academic Cheat Sheet

Titration Curves Overview

I. Cortical Input Centers

- **Cerebral cortex:**
 - Associated activity characteristics: (transient), (transient)
- **Frontal cortex:**
 - Associated activity characteristic: (transient)

II. Striatum

- **Caudate/putamen:**
(Receives cortical input)
- **D1 Receptors:**
Involved in the Direct Pathway (neurons project to Globus pallidus, internal segment)
- **D2 Receptors:**
Involved in the Indirect Pathway (neurons project to Globus pallidus, external segment)
- Associated activity characteristics with D2 pathway/ neurons: (transient), (transient)

Basal Ganglia Circuitry

III. Basal Ganglia Nuclei

- **Globus pallidus, external segment (GPe):**
 - Intrinsic activity: (tonic)
 - Receives input from: Caudate/putamen (via D2 pathway)
- **Subthalamic nucleus (STN):**
 - Intrinsic activity: (transient)
 - Receives input from: Globus pallidus, external segment (GPe)
- **Globus pallidus, internal segment (GPi):**
 - Intrinsic activity: (tonic)
 - Receives input from: Caudate/putamen (via D1 pathway), Subthalamic nucleus (from indirect pathway)

IV. Thalamic Output

- **VA/VL complex of thalamus:**
 - Receives output from: Globus pallidus, internal segment (GPi)
 - Associated characteristic of output/projection from GPi to Thalamus: (transient)