

# **Academic Cheat Sheet**

# **Titration Curves Overview**

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## 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 characteristics of output/projection from Gpi to Thalamus: (transient)