

## Handbook of Basal Ganglia Structure and Function, Volume 24, Second Edition (Handbook of Behavioral Neuroscience)



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*Handbook of Basal Ganglia Structure and Function, Second Edition,* offers an integrated overview of the structural and functional aspects of the basal ganglia, highlighting clinical relevance. The basal ganglia, a group of forebrain nuclei interconnected with the cerebral cortex, thalamus, and brainstem, are involved in numerous brain functions, such as motor control and learning, sensorimotor integration, reward, and cognition.

These nuclei are essential for normal brain function and behavior, and their importance is further emphasized by the numerous and diverse disorders associated with basal ganglia dysfunction, including Parkinson's disease, Tourette's syndrome, Huntington's disease, obsessive-compulsive disorder, dystonia, and psychostimulant addiction.

This updated edition has been thoroughly revised to provide the most up-to-date account of this critical brain structure. Edited and authored by internationally acclaimed basal ganglia researchers, the new edition contains ten entirely new chapters that offer expanded coverage of anatomy and physiology, detailed accounts of recent advances in cellular/molecular mechanisms and cellular/physiological mechanisms, and critical, deeper insights into the behavioral and clinical aspects of basal ganglia function and dysfunction.

- Synthesizes widely dispersed information on the behavioral neurobiology of the basal ganglia, including advances in the understanding of anatomy, cellular/molecular and cellular/physiological mechanisms, and behavioral and clinical aspects of function and dysfunction
- Written by international authors who are preeminent researchers in the field
- Explores, in full, the clinically relevant impact of the basal ganglia on various psychiatric and neurological diseases

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