The Subthalamic Nucleus

Part I: Development, Cytology, Topography and Connections

This monograph on the subthalamic nucleus accentuates in Part I the gap between experimental animal and human information concerning subthalamic development, cytology, topography and connections. The light and electron microscopical cytology concerns the open nucleus concept and the neuronal types present in the STN. The cytochemistry encompasses: enzymes, NO, GFAP, calcium binding proteins, and receptors (dopamine, cannabinoid, opioid, glutamate, GABA, serotonin, cholinergic, and calcium channels). The ontogeny of the subthalamic cell cord is reviewed. The topography concerns the rat, cat, baboon and human STN. The descriptions of the connections are also given from a historical point of view. Recent tracer studies on the rat nigro-subthalamic connection revealed contralateral projections.

Contents:
1 Introduction.
2 Cytology of the STN.
3 Ontogeny of the STN.
4 Topography of the rat, cat, baboon, and human STN.
5 Connections of the STN.
6 Nigro-subthalamic connections in rat.

Subject index.


98,95 €, $149.00, SFr. 172.50, £76.00

Order Now!

Yes, please send me ___ copies

Methods of Payment
○ Check/Money Order enclosed
○ AmEx
○ MasterCard
○ VISA

Card No. ____________ Exp. Date __________

Name ____________________________
Street Address ______________________
City / State / ZIP-Code

Country

Telephone / Email ___________________

Signature ________________________

Pre-publication pricing: Unless otherwise stated, pre-pub prices are valid through the end of the third month following publication, and therefore are subject to change. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. Please consult springer.com for information on postage.

CA, MA, NJ, NY, and PA residents, please add sales tax. Canadian residents, please add 6% GST. Please add $5.00 for shipping one book and $1.00 for each additional book. Outside the US and Canada add $10.00 for first book, $5.00 for each additional book. All orders are processed upon receipt. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent. Remember, your 30-day return privilege is always guaranteed. Pre-publication pricing. Unless otherwise stated, pre-pub prices are valid through the end of the third month following publication, and therefore are subject to change.