



## Modulators, Mediators, and Specifiers in Brain Function: Interactions of Neuropeptides, Cyclic Nucleotides, and Phosphoproteins in Mechanisms Underlying Neuronal Activity, Behavior, and Neuropsychiatric Disorders

By -

Springer-Verlag New York Inc., United States, 2012. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.While neuroanatomy and neurophysiology were defining the unique features of the synapse as a site for cell to cell signaling in the late fifties, neurochemistry was establishing the identity and studying the biosynthetic pathways of monoamine neurotransmitters. Meanwhile, neuropsychiatry was keeping a vigilant eye on the outcome of this concerted effort with the untold hope that a genetic defect in neurotransmitter metabolism would account for the pathogenesis of certain psychiatric illnesses. Thus, when neurochemists in the early sixties began to study the feasibility of measuring the metabolism of brain neurotransmitters in vivo, clinical biochemists eagerly adopted these methods to their needs and sought to verify whether inborn errors of transmitter biogenesis were a cause for at least certain forms of depression, mania and schizophrenia. Undoubtedly, it is still too early to evaluate the outcome of these studies. However, current opinion holds that gross inborn errors in transmitter metabolism do not appear to be operative as a primary cause of psychiatric disorders. Though monoamine metabolism appears to be defective in certain groups of...



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