



## Body and Brain: Trophic Theory of Neural Connections (Paperback)

By Dale Purves

HARVARD UNIVERSITY PRESS, United States, 1990. Paperback. Book Condition: New. New edition. 235 x 156 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The major goal of developmental neurobiology is to understand how the nervous system is put together. A central theme that has emerged from research in this field over the last several decades is the crucial role of trophic interactions in neural assembly, and indeed throughout an animal's life. Trophic which means nutritive refers to long-term interdependencies between nerve cells and the cells they innervate. The theory of trophic effects presented in this book offers an explanation of how the vertebrate nervous system is related to and regulated by the body it serves. The theory rationalizes the nervous system's accommodation, throughout life, to the changing size and form of the body it tenants, indicating the way connections between nerve cells change in response to stimuli as diverse as growth, injury, experience, and natural selection. Dale Purves, a leading neurobiologist best known for his work on the formation and maintenance of synaptic connections, presents this theory within the historical setting of earlier ideas about neural organization from Weiss's theory of functional reorganization to the chemoaffinity...



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