



Exploring the Thalamus and Its Role in Cortical Function

By S. Murray Sherman, Rainer W. Guillery

MIT Press Ltd, United States, 2009. Paperback. Book Condition: New. 2nd Revised edition. 229 x 175 mm. Language: English . Brand New Book. The thalamus plays a critical role in perceptual processing, but many questions remain about what thalamic activities contribute to sensory and motor functions. In this book, two pioneers in research on the thalamus examine the close two-way relationships between thalamus and cerebral cortex and look at the distinctive functions of the links between the thalamus and the rest of the brain. Countering the dominant corticocentric approach to understanding the cerebral cortex -- which does not recognize that all neocortical areas receive important inputs from the thalamus and send outputs to lower motor centers -- S. Murray Sherman and R.W. Guillery argue for a reappraisal of the way we think about the cortex and its interactions with the rest of the brain. The book defines some of the functional categories critical to understanding thalamic functions, including the distinctions between drivers (pathways that carry messages to the cortex) and modulators (which can change the pattern of transmission) and between first-order and higher-order thalamic relays -- the former receiving ascending drivers and the latter receiving cortical drivers. This second edition...



READ ONLINE
[2.7 MB]

Reviews

The ebook is straightforward in go through preferable to recognize. It typically does not charge too much. Its been designed in an exceptionally straightforward way and it is just following i finished reading this book where basically altered me, affect the way i really believe.

-- **Dr. Reta Murphy**

It becomes an amazing pdf which i actually have at any time read through. This can be for all those who statte there had not been a worthy of reading through. You wont sense monotony at anytime of your own time (that's what catalogues are for relating to should you check with me).

-- **Claud Kris**