



Visceral Sensory Neuroscience: Interoception

By Oliver G. Cameron M.D. Ph.D., W.D. Hamilton, Jonathan Abrams, Donald Hunninghake, Robert Knopp, RPSGB, Alison M. Beaney, Jenkins, Margaret T. Shannon, Billie Ann Wilson, Carolyn L. Stang

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It has been known for over a century that there is an afferent (body-to-brain), as well as an efferent (brain-to-body), component to the visceral-atomic nervous system. Despite the fundamental importance of bodily afferent information- sometimes called interoception- to central nervous system control of visceral organ function, emotional-motivational processes, and dysfunction of these processes, including psychosomatic disorders, its role did not receive much attention until quite recently. This is the first comprehensive review of this topic and it covers both neurobiological and psychobiological aspects. The author first defines the issue and gives an historical background starting with the James-Lange theory of emotion, and addresses learning and motivation, roots in Pavlovian conditioning research, and operant conditioning of visceral function. In the second section he reviews recent scientific findings in the neural basis of visceral perception and studies in cardiovascular-respiratory and alimentary interoception. Finally, he discusses several related areas of research and theory including drug state issues, interoception and psychiatric disorders, and bodily consciousness, and suggests directions for future investigation. The book will be of interest to scientists in neurobiology, psychology, and brain imaging, to individuals in related clinical fields such as psychiatry, neurology, cardiology, gastroenterology, and clinical psychology, and to their students and trainees.

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Editorial Review

Review

"Overall, this is an excellent volume for students and researchers...I strongly recommend it..."--Michael E. Robinson, Ph.D., in Psychosomatic Medicine

"the author is clearly a master of the meaning of interoception and the ideas behind its historical development...a useful resource for students of psychology and neurobiology. I learnt a great deal from it and would recommend others embarking on the fascinating investigation of brain processing of bodily sensations now to read it."--BRAIN, 2003, 126, 1504-1506

About the Author

Oliver G. Cameron is at University of Michigan, School of Medicine.

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