

Springer

1st
edition

1st ed. 2021, XII, 324 p. 80
illus., 68 illus. in color. With
online files/update.

Printed book

Hardcover

Book w. online files/update

Hardcover

ISBN 978-3-030-62382-1

\$ 179,99

Available

Discount group

Professional Books (2)

Product category

Contributed volume

Series

Masterclass in Neuroendocrinology

Other renditions

Softcover

ISBN 978-3-030-62384-5

Biomedicine : Neurosciences

Tasker, J.G., Bains, J.S., Chowen, J.A. (Eds.)

Glial-Neuronal Signaling in Neuroendocrine Systems

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- Endorsed by the International Neuroendocrine Federation

This volume discusses current research on glial-neuronal interactions in several neuroendocrine systems. Glial-neuronal bidirectional transmission represents one of the fastest-growing areas of investigation in neuroscience today. Unraveling the interactions and signaling synergy between glial cells and neurons is critical to advancing our understanding of brain function. Consequently, this book summarizes the latest findings on the roles of astrocytes, microglia and tanycytes in the control of synaptic transmission, synaptic plasticity, blood-brain signaling, neuroinflammation and immune signaling. In addition, leading experts in the field discuss how reproductive function, the stress response and energy homeostasis are regulated by glial-neuronal communication. Given its scope, the book is essential reading for undergraduate and graduate students in the neurosciences, as well as postdoctoral fellows and established researchers who are looking for a comprehensive overview of glial-neuronal crosstalk in neuroendocrine systems. This is the eleventh volume in the International Neuroendocrine Federation (INF) Masterclass in Neuroendocrinology series (Volumes 1-7 published by Wiley), which aims to illustrate the highest standards and highlight the latest technologies in basic and clinical research, and aspires to provide inspiration for further exploration into the exciting field of neuroendocrinology.

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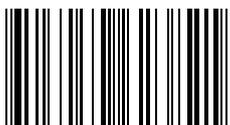
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