

The Somatotrophic Axis in Brain Function

Edited by Fred Nyberg

The somatotrophic axis is one of the major hormonal systems regulating postnatal growth in mammals. It interacts with the central nervous system on several levels. Growth hormone (GH) and insulin-like growth factor-I (IGF-I) receptors are expressed in many CNS areas including choroid plexus, hippocampus, hypothalamus and the pituitary. GH and IGF-I are important factors in the development and differentiation of the CNS and have protective properties in neurodegeneration, as well as in traumatic and ischaemic injury of the CNS. Also GH has an important

impact on mood and well-being with GH secretory capacity being reduced in depression.

This volume will include chapters (1) on basic knowledge on GH/IGF-I, (2) on localization of GH/IGF-I and their receptors in the CNS, including blood brain barrier transport of both hormones, (3) on actions of the two hormones on CNS function (basic science), (4) on clinical aspects of GH/IGF-I in relation to various CNS functions and disorders, and finally (5) on some future perspectives in this area of science.

KEY FEATURES

- Contents are well balanced and cover a variety of relevant topics from basic to clinical research
- International selection of authors, with a good representation of the research on growth hormones
- A timely publication which will be useful to scientists in both basic and clinical research

AUDIENCE

Scientists from basic and clinical researchers to medical practitioners, and students.



ACADEMIC PRESS

An imprint of Elsevier
books.elsevier.com

ISBN-13: 978-0-12-088484-1
ISBN-10: 0-12-088484-4



9 780120 884841