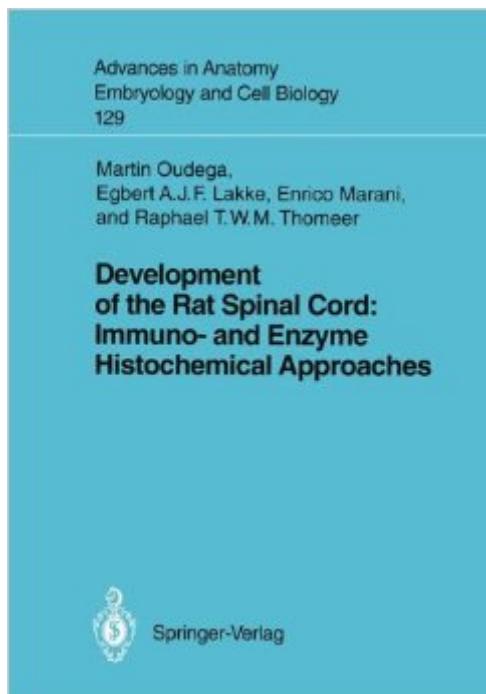


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Development Of The Rat Spinal Cord: Immuno- And Enzyme Histochemical Approaches (Advances In Anatomy, Embryology And Cell Biology)



Synopsis

The studies described here were carried out in the Neuroregulation Group, Department of Physiology, University of Leiden, the Netherlands. Over the last decade, this group, in close collaboration with the Department of Neurosurgery of the Academic Hospital of Leiden, has studied the development of the central nervous system from a neuroanatomical as well as a clinical perspective. During this period, the expression of several morphoregulators in the developing rat spinal cord was extensively investigated. Parallel studies focused on the development of the spinal cord fiber systems, which was studied by means of the intrauterine use of neuronal tracers. The main goal of these studies was to extend our knowledge about the (normal) generation of the spinal cord and to contribute to the understanding of clinical problems related to regeneration and degeneration in the mammalian central nervous system. The studies on morphoregulators, in particular, appeared to benefit two different scientific areas. Firstly, the correlation between morphoregulator expression patterns and known anatomy contributed to our knowledge about spinal cord development. Secondly, the correlation between morphoregulator expression patterns and known developmental processes may help to understand their precise function(s). This volume of *Advances in Anatomy, Embryology and Cell Biology* presents these particular studies on the development of the rat spinal cord performed over the last decade. As well as integrating the results of the tracer studies, this volume also provides an update on the development of the rat spinal cord.

Book Information

Series: *Advances in Anatomy, Embryology and Cell Biology* (Book 129)

Perfect Paperback: 166 pages

Publisher: Springer; 1 edition (February 18, 1994)

Language: English

ISBN-10: 3540571736

ISBN-13: 978-3540571735

Product Dimensions: 6.7 x 0.4 x 9.5 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

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