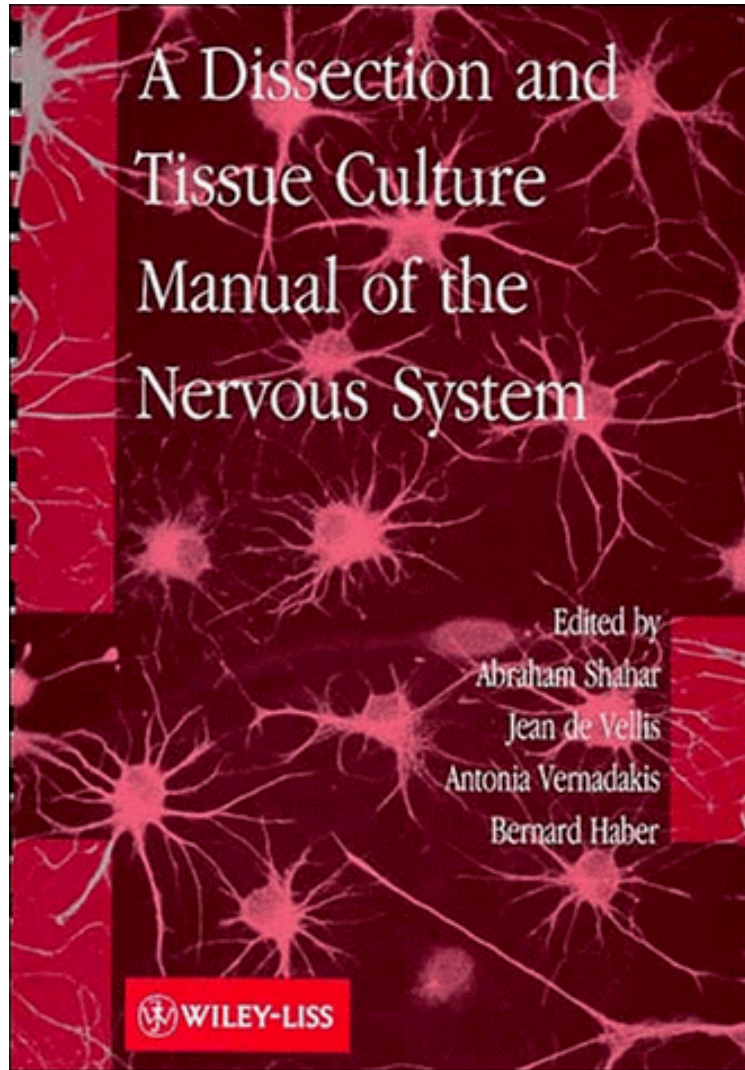


(Mobile ebook) A Dissection and Tissue Culture Manual of the Nervous System

## A Dissection and Tissue Culture Manual of the Nervous System

*From Wiley-Liss*

*\*Download PDF | ePub | DOC | audiobook | ebooks*



DOWNLOAD



READ ONLINE

#6473474 in Books 1989-11-21Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 10.04 x .79 x 7.68l, 2.20 #File Name: 0471562378398 pages | File size: 60.Mb

**From Wiley-Liss : A Dissection and Tissue Culture Manual of the Nervous System** before purchasing it in order to gage whether or not it would be worth my time, and all praised A Dissection and Tissue Culture Manual of the Nervous System:

At last . a collection of practical protocols for explanting and manipulating neuronal and glial cells. A Dissection and Tissue Culture Manual of the Nervous System Abraham Shahar, Jean de Vellis, Antonia Vernadakis, and Bernard Haber, Editors Among research laboratories involved with neuronal and glial cell cultures and their applications, there

is a growing demand for a hand-book describing dissection procedures, culture preparation techniques, and the in vitro manipulation of neural cells and tissues for specific analytical purposes. A Dissection and Tissue Culture Manual of the Nervous System offers a diverse collection of methods that have been developed by and are used routinely within specialized neurobiological laboratories. Written in an easy-to-follow style, the procedures described in this unique guide are designed by experts to be applied by those with limited experience in the field. Organized into ten comprehensive sections, ninety concise contributions from leading laboratories worldwide put forth practical, stepwise protocols for neural cell manipulation and experimentation. Methods encompass: \* an illustrated outline of techniques for the dissection of brain areas in the fetus and the neonate \* the dissection of selected specialized structures, such as the ciliary ganglion \* organotypic. explant culture of nervous tissue \* dissociated culture of astrocytes, oligodendrocyte, neurons, and Schwann cells \* reaggregation culture of dissociated cells. Sections devoted to various tissue processing methods and experimental applications of cultured material present histochemical, autoradio-graphic, and immunocytochemical staining and visualization techniques. In situ hybridization methods, as well as preparative procedures for electron microscopy and biochemical and physiological assays, are discussed with an emphasis on methods tailored for the neurobiologist. Alternative techniques for the cultivation of the same organ or cell type from diverse animal species are juxtaposed with a varied selection of methodology and instrumentation, and complemented by key literature citations for further reading, to enable the investigator to chose the appropriate approach for a specific neurobiological application. Presented in a comb-bound format for convenient use on the laboratory bench, A Dissection and Tissue Culture Manual of the Nervous System will be an essential research companion to graduate students, post-doctoral fellows and other laboratory investigators in cell and developmental neurobiology, neuroanatomy, neurophysiology, neuropharmacology, and biochemistry.

From the Publisher This invaluable and authoritative work offers a diverse collection of the methods developed by and used routinely within specialized neurobiological laboratories. Written in an easy-to-follow style, the procedures described are designed by experts for application by professionals with limited experience in the field. This book is organized into ten comprehensive sections with contributions from leading laboratories worldwide. Included are practical, stepwise procedures for neural cell manipulation and experimentation, including: an illustrated outline of techniques for the dissection of brain areas in the rat fetus and neonate; the dissection of selected specialized structures; organotypic explant culture of nervous tissue; and more. From the Back Cover At last a collection of practical protocols for explanting and manipulating neuronal and glial cells. A Dissection and Tissue Culture Manual of the Nervous System Abraham Shahar, Jean de Vellis, Antonia Vernadakis, and Bernard Haber, Editors Among research laboratories involved with neuronal and glial cell cultures and their applications, there is a growing demand for a hand-book describing dissection procedures, culture preparation techniques, and the in vitro manipulation of neural cells and tissues for specific analytical purposes. A Dissection and Tissue Culture Manual of the Nervous System offers a diverse collection of methods that have been developed by and are used routinely within specialized neurobiological laboratories. Written in an easy-to-follow style, the procedures described in this unique guide are designed by experts to be applied by those with limited experience in the field. Organized into ten comprehensive sections, ninety concise contributions from leading laboratories worldwide put forth practical, stepwise protocols for neural cell manipulation and experimentation. Methods encompass: an illustrated outline of techniques for the dissection of brain areas in the fetus and the neonate the dissection of selected specialized structures, such as the ciliary ganglion organotypic. explant culture of nervous tissue dissociated culture of astrocytes, oligodendrocyte, neurons, and Schwann cells reaggregation culture of dissociated cells. Sections devoted to various tissue processing methods and experimental applications of cultured material present histochemical, autoradio-graphic, and immunocytochemical staining and visualization techniques. In situ hybridization methods, as well as preparative procedures for electron microscopy and biochemical and physiological assays, are discussed with an emphasis on methods tailored for the neurobiologist. Alternative techniques for the cultivation of the same organ or cell type from diverse animal species are juxtaposed with a varied selection of methodology and instrumentation, and complemented by key literature citations for further reading, to enable the investigator to chose the appropriate approach for a specific neurobiological application. Presented in a comb-bound format for convenient use on the laboratory bench, A Dissection and Tissue Culture Manual of the Nervous System will be an essential research companion to graduate students, post-doctoral fellows and other laboratory investigators in cell and developmental neurobiology, neuroanatomy, neurophysiology, neuropharmacology, and biochemistry.