Culturing Nerve Cells, Second Edition (Cellular and Molecular Neuroscience)

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Because neurons and glia in culture are remarkably similar to those in situ, culture systems make it possible to identify significant cell interactions and to elucidate their mechanisms. This book is in many ways a do-it-yourself manual for culturing nerve cells, complete with recipes and protocols. But it also provides an understanding of the principles behind the protocols. In effect the contributors invite you into their labs and provide much of the information you would obtain from such a visit.The authors of the introductory chapters present the nuts-and-bolts principles of growing nerve cells. The authors of the following chapters discuss the culturing of specific cell types. They explain how their experimental goals have shaped their particular cell culture approach and the advantages and disadvantages of the cell culture systems they have developed. They provide detailed protocols and describe their cultures in practical terms, from when the cells are first plated through the various phases of their development.

Contributors: Janet Alder, Hannelore Asmussen, Gerard Bain, Gary Banker, Robert W. Baughman, Richard P. Bunge, Ann Marie Craig, Matthew E. Cunningham, Dominique Debanne, Stephen E. Farinelli, Michael F.A. Finley, Gerald D. Fishbach, Beat H. Gähwiler, W.-Q. Gao, Daniel J. Goldberg, Kimberly Goslin, David I. Gottlieb, Lloyd A. Greene, Mary Beth Hatten, Dennis Higgins, James E. Huettner, Kenneth A. Jones, Naomi Kleitman, Raul Krauss, Ronald M. Lindsay, Nagesh K. Mahanthappa, Carol A. Mason, Margot Mayer-Pröschel, R. Anne McKinney, Mary E. Morrison, Mark Noble, David S. Park, Paul H. Patterson, Mu-ming Poo, Richard T. Robertson, Samuel Schacher, Michael M. Segal, Carolyn L. Smith, Nacira Tabti, Scott M. Thompson, Roseann Ventimiglia, Ginger S. Withers, Patrick M. Wood, Min Yao.

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