

Protocols for Neural Cell Culture (Springer Protocols Handbooks)

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Since the conception of this acclaimed series of volumes examining neural tissue culture, the expansion of neuroscience has continued to produce vital discoveries that utilize tissue culture methodologies. The expert contributors to the fourth edition of *Protocols for Neural Cell Culture* refine existing protocols and present the emerging new techniques and culture media formulations linked with the many advances in neuroscience. While highlighting updated experimental procedures for many of the classical neural tissue culture preps, the volume addresses topics such as regenerative medicine and the methods to grow and expand embryonic and adult neural stem cells. Essential techniques for the isolation, expansion, and cryopreservation of neural tissue from mouse, rat, and human sources are covered, as well as methods to assess aspects of cell function (calcium imaging) and cell death. With its detailed, step-by-step laboratory protocols, this volume provides the kind of detailed description and implementation advice that is crucial for getting optimal results.

Authoritative and cutting-edge, *Protocols for Neural Cell Culture, Fourth Edition* continues the previous editions' tradition of exceptional quality and thorough coverage in tissue culture protocols for today's neuroscience in order to inspire researchers in the field to further explore this imperative area of study.

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Editorial Review

From the Back Cover

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