

The ability to assess the response of neural cells is an important goal of research in the neurosciences. The means to measure responses in a chemically defined medium is a positive feature of the use of cell culture and is the major reason its use is so important in this discipline. Techniques for the purification of cells for culture, for large-scale isolation, for assessing differentiated function, and for tracing lineage are included. Many of the methods can easily be adapted to other systems.

**Key Features\*** Convenient benchtop format\* Methods presented for easy adaptation to new systems\* Comprehensive protocols included for\* Preparation and maintenance of primary and continuous cultures\* Cell purification\* Bulk isolation\* Studying pulsatility, growth on immobile carriers, rotation-mediated aggregation, microcultures, Maximow assembly cultures\* Assessment of differentiated and functional aspects: endocrine modulation, morphological variants, receptors, intracellular trafficking\* Clonal analysis and lineage analysis

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Thus, in vitro methods often provide excellent model systems for investigating In recent years a convergence of new or improved cell culture, biochemical. A fundamental problem in neuroscience is the elucidation of the cellular and molecular mechanisms underlying the development and function of the nervous. In this review we discuss the use of adult human brain cell culture methods in brain research to unravel the biology of the normal and diseased.

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