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## Identification and Expression of G Protein-Coupled Receptors

By -

Wiley-Liss. No binding. Book Condition: New. Spiral-bound. 222 pages. Dimensions: 10.0in. x 7.3in. x 0.7in. The past decade has seen tremendous advances in the study of G protein-coupled receptors (GPCRs), including the molecular cloning and identification of more than 100 hundred GPCR genes. But while GPCRs serve as targets for more than 300 medicines in the modern pharmacopoeia, the shrinking pool of known ligands and the continuing discovery of orphan GPCR genes have underscored the need for new approaches to ligand identification. Identification and Expression of G Protein-Coupled Receptors addresses this new direction in GPCR biochemistry-offering a definitive laboratory bench manual that emphasizes expression over primary cloning strategies. In a series of expert contributions by well-known researchers, this book provides detailed protocols for various expression systems-from bacteria to mammalian cells-as well as straightforward opinions on the advantages and shortcomings of each approach. Topics covered include: Homology screening and the polymerase chain reaction in the cloning of GPCR genes Cloning of GPCRs using mammalian cell expression GPCR informatics and the orphan problem The use of *Xenopus laevis* oocytes for the study of GPCRs Stable expression of GPCRs in mammalian cells Heterologous expression in primary cell cultures Expression of GPCR in *Escherichia coli*...



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