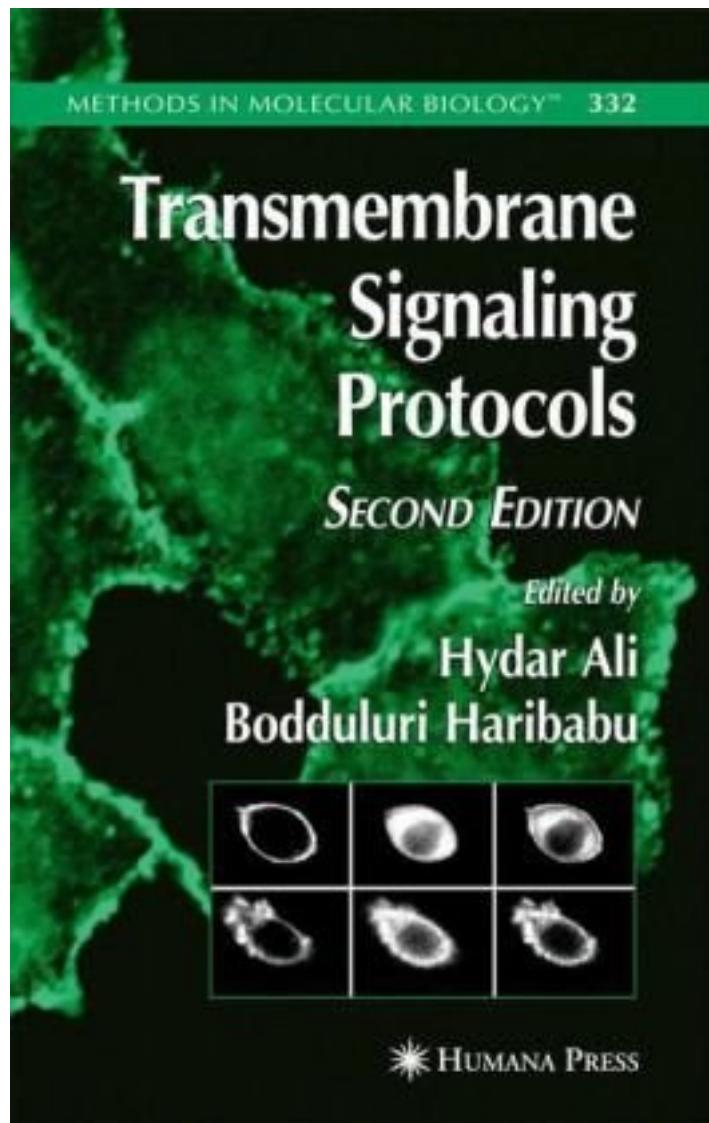


Transmembrane Signaling Protocols



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This fully updated and expanded second edition of Transmembrane Signaling Protocols demonstrates the use of such techniques as single cell imaging, bioluminescence resonance energy transfer, and global proteomics in the study of transmembrane signaling events. Highlights include the functional expression and genetic selection of mutant mammalian transmembrane receptors in yeast, real-time analysis of transmembrane receptor signaling in live cells, and bioluminescence energy transfer to monitor protein-protein interaction. Additional chapters use state-of-the-art methods to analyze gene expression and proteomic profiles related to transmembrane signaling events, as well as to genetically reconstitute bone marrow for the study of signal transduction *ex vivo*. The protocols follow the successful Methods in Molecular Biology(t) series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls.

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