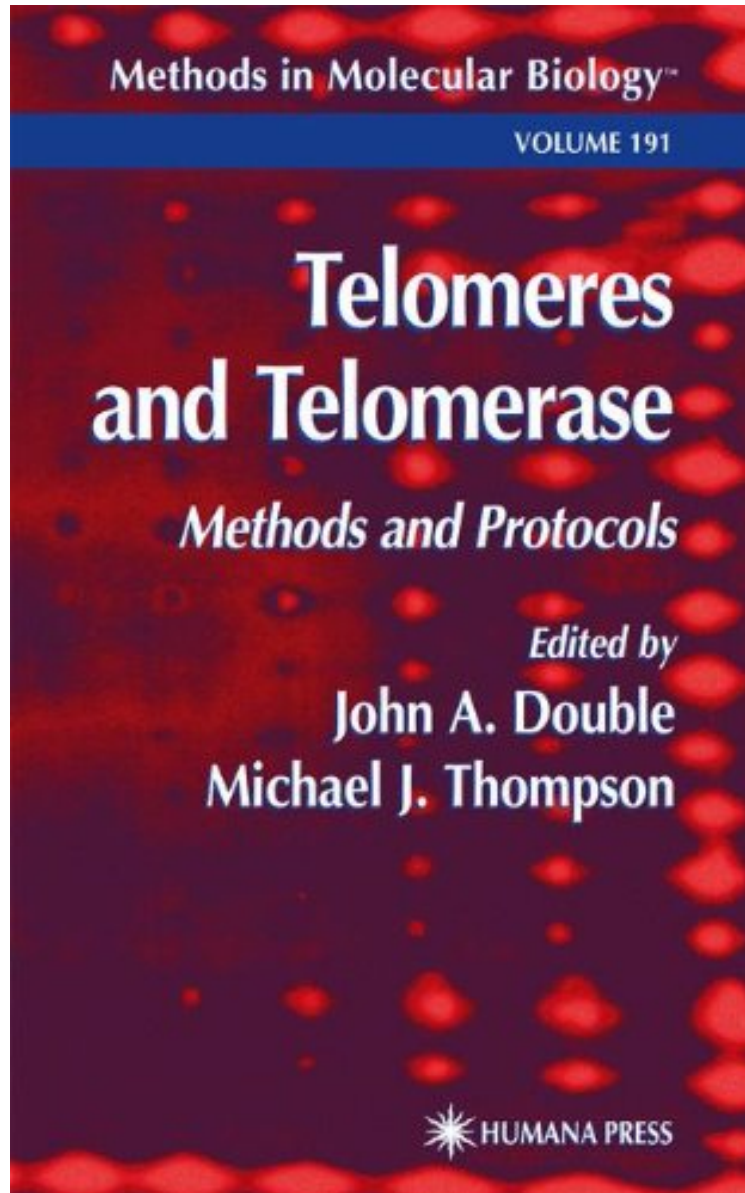


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"Among the many experimental protocols described in this book are methods for visualizing, manipulating, and assaying telomeres and telomerase activity. The protocols are written clearly and should serve as a useful laboratory resource for anyone wishing to learn how to study these entities. The book has a utilitarian look and feel, and while illustrations are not a major feature of the book, the ones that are included are of adequate quality. This book is intended and written as a laboratory guide manual. It would be quite useful for anyone doing bench research on telomeres and telomerase."-Doody's Health Sciences Book JournalFrom the Back CoverThe discovery of telomerase expression in a majority of tumors and the recognition of its potential role in the aging process has dramatically raised its profile as a target for therapeutic intervention. In *Telomeres and Telomerase: Methods and Protocols*, John A. Double and Michael J. Thompson have collected a critically important series of novel and essential techniques for studying telomeres and telomerase. These readily reproducible protocols provide cutting-edge tools to identify, measure, and analyze telomeres, to determine telomerase expression at the RNA level, to determine telomerase activity, and to detect potential modifiers of this activity. The techniques for assaying telomerase activity range from standard radiological TRAP assays to nonradioactive methods, from non-PCR-based methods to techniques using real-time PCR. Written by investigators who have used the methods extensively, each protocol includes step-by-step instructions, tips on avoiding pitfalls, and invaluable notes that make all the difference to successful experimental outcomes. Broad-ranging and highly practical, *Telomeres and Telomerase: Methods and Protocols* provides molecular and cell biologists, cancer researchers, and cellular pathologists with the core array of productive techniques needed today to develop telomerase inhibitors and clinically valuable diagnostic/prognostic telomerase markers.