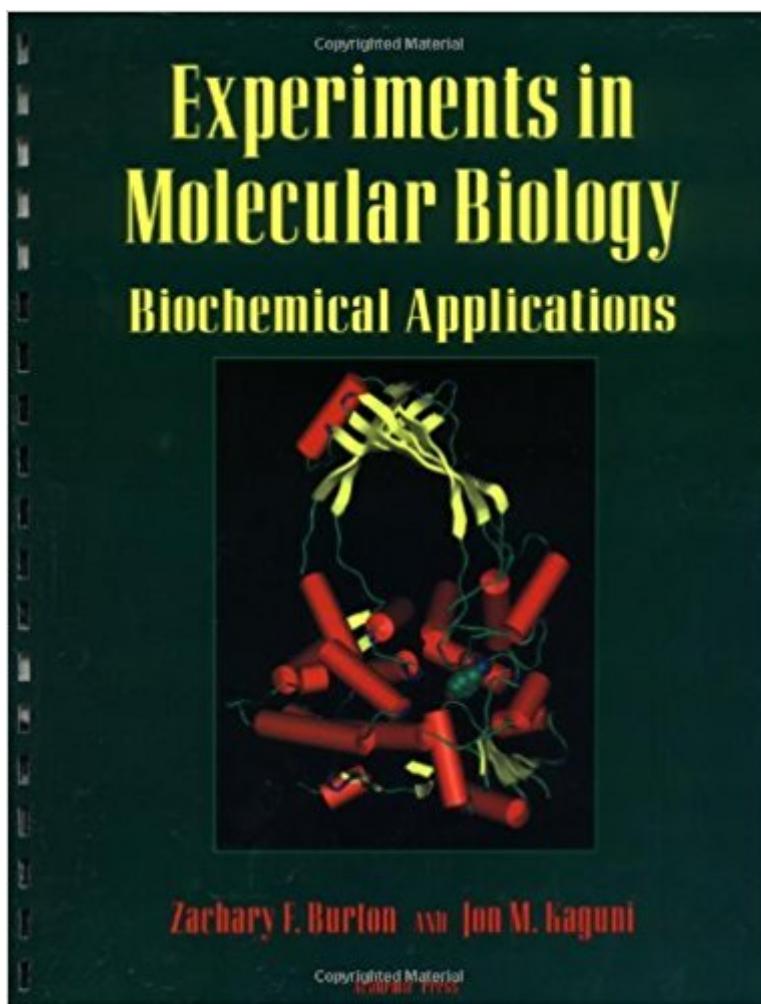


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# Experiments In Molecular Biology: Biochemical Applications



## Synopsis

Experiments in Molecular Biology provides a thorough introduction to recombinant DNA methods used in molecular biology and nucleic acid biochemistry. This unique laboratory manual is particularly appropriate for courses in molecular cloning, molecular genetics techniques, molecular biology techniques, recombinant DNA techniques, bacterial genetics techniques, and genetic engineering. Included is an especially helpful section to aid new instructors in avoiding potential pitfalls of specific experiments. Key Features\* Contains student-tested, easy-to-follow protocols\* Presents background information that reinforces principles behind the methods presented\* Includes questions at the end of laboratory exercises\* Provides both detailed descriptions of experimental procedures and a theoretical support section\* Sequentially links experiments to provide a "project" approach to studying molecular biochemistry\* Includes student-tested, easy-to-follow protocols\* Background information reinforces principles behind the methods presented\* Includes questions at the end of laboratory exercises\* Advises new instructors on potential pitfalls of specific experiments\* Provides both detailed descriptions of experimental procedures and a theoretical support section\* Sequentially links experiments to provide a "project" approach to studying

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techniques, molecular biology techniques, recombinant DNA techniques, bacterial genetics techniques, and genetic engineering. Also included is an especially helpful section to aid new instructors in avoiding potential pitfalls of specific experiments. **Key Features\*** Contains student-tested, easy-to-follow protocols\* Presents background information that reinforces principles behind the methods presented\* Includes questions at the end of laboratory exercises\* Provides both detailed descriptions of experimental procedures and a theoretical support section\* Sequentially links experiments to provide a "project" approach to studying molecular biochemistry

Dr. Burton has been a professor at Michigan State University since 1987 and is also Director of Undergraduate Education in the Department of Biochemistry and Molecular Biology, as well as Principle Investigator of the Burton Lab at MSU. His research is on RNA polymerase mechanisms and ancient evolution of transcription and translation systems, on which he has published several papers. He is interested in the genesis, divergence, and complexity of life on Earth, told in core protein and DNA sequences.

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