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Molecular cloning: a laboratory manual.

Author(s) : [Sambrook, J.](#) ; [Fritsch, E. F.](#) ; [Maniatis, T.](#)

Author Affiliation : University of Texas South Western Medical Center, USA.

Book : [Molecular cloning: a laboratory manual](#). 1989 No.Ed. 2 pp.xxxviii + 1546 p

Abstract : The expansion in the range and use of cloning techniques is reflected in the growth of this classic manual from 1 to 3 volumes. The comb-bound large print edition (with clear illustrations) has been retained in the new edition but the 11 chapters have been extensively revised and updated and 7 new chapters added. Volume 1 covers the following chapters (1) plasmid vectors, (2) bacteriophage λ vectors, (3) cosmid vectors, (4) single-stranded, filamentous bacteriophage vectors, (5) enzymes used in molecular cloning, (6) gel electrophoresis of DNA, and (7) extraction purification and analysis of messenger RNA from eukaryotic cells. Volume 2 covers (8) construction and

cDNA libraries, (9) analysis and cloning of eukaryotic genomic DNA, (10) preparation of radiolabeled DNA and RNA probes, (11) synthetic oligonucleotide probes, (12) expression libraries with antibodies and oligonucleotides, (13) DNA sequencing, (14) *in vitro* amplification of DNA by the polymerase chain reaction, and (15) site-directed mutagenesis of cloned DNA. Volume 3 consists of (16) expression of cloned genes in cultured mammalian cells, (17) expression of cloned genes in *Escherichia coli*, (18) detection and analysis of proteins expressed from cloned genes. It also contains appendices on (a) bacterial media, antibiotics and bacterial strains, (b) preparation of reagents and buffers used in molecular cloning, (c) properties of nucleic acids and amino acids, (d) commonly used techniques in molecular cloning, (e) suppliers (f) a list of suppliers. The 47 pp. index is repeated in each volume. Each chapter is written with a clear and simple explanation of the point of the technique addressed with a detailed reference list. Many researchers regarded the first edition (Molecular Cloning, 1982) as an essential laboratory tool, and no doubt Sambrook *et al.* (1989) volume 2 is widely used.

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