



DNA Transfer to Cultured Cells (Culture of Specialized Cells)

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DNA transfer to cultured cells

Edited by Katya Ravid and R. Ian Freshney

Rapid advances in DNA transfer technology have transformed many disciplines, ranging from molecular genetics to biotechnology. Scientists now have the means to introduce copies of genes into different cell types, then detect the expression of these genes in the cell. It is now possible to regulate cell growth that may lead to cancer, develop new biopharmaceuticals, and apply knowledge about the role of genes in cell processes to basic research in molecular genetics.

DNA Transfer to Cultured Cells is the first quick reference to all of the established techniques for the transfer of genetic material to cells in vitro. Featuring contributions by leading researchers in the field, this detailed guide walks the reader through a variety of DNA transfer methods, describes their application to specific cell types, and integrates aspects of molecular biology with tissue culture. Offering overviews and detailed protocols for the techniques under discussion in each of its sections, this book covers an exceptionally broad array of topics, including:

- * Viral infection
- * Electroporation
- * Phosphate precipitation
- * DEAE Dextran
- * Liposomes
- * Yeast artificial chromosomes (YACs)
- * Whole chromosome transfer
- * Enhanced expression.

Special sections at the end of each chapter list suppliers for necessary reagents and materials. This easy-to-use, self-contained guide addresses key developments of recent years as well as emerging trends in DNA transfer. For practical applications in cell biology, genetics, heredity, biotechnology, or evolution, DNA Transfer to Cultured Cells is a unique and unparalleled resource.

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