



Two-Dimensional Gel Electrophoresis of Proteins: Methods and Applications

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Two-Dimensional Gel Electrophoresis of Proteins: Methods and Applications reviews current methods and clinical applications of two-dimensional gel electrophoresis of proteins, including the QUEST system, silver staining, and peptide mapping. Two-dimensional gel electrophoresis are applied to the study of diseases ranging from inborn errors of metabolism to human germ-line mutation rates, cancer, and mistranslation in animal and bacterial cells.

This volume is organized into three sections encompassing 14 chapters and begins with an overview of the methodology of two-dimensional gel electrophoresis, followed by a discussion of computerized two-dimensional gel electrophoresis, silver staining, immunoblotting, and one- and two-dimensional peptide mapping. In most cases, a step-by-step guide to the techniques is given so that procedures may be easily repeated. A catalog of mouse fibroblast proteins is also given. The chapters that follow focus mainly on applications of two-dimensional gel electrophoresis in areas such as clinical and cancer research, human genetics, protein biosynthesis, and gene expression in plants. The final section presents current protein catalogs of *Escherichia coli* and human HeLa cells.

This book is suitable for young researchers as well as for senior scientists working with a wide variety of problems in molecular and cell biology, basic biochemistry, genetics, and clinical research.

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