

## Preface

Experience in laboratory experiments in molecular biology is important to students, researchers and practitioners in the biological and medical sciences. This book is designed to introduce the reader to basic methods used in the isolation, cloning and analysis of genetic material.

The text includes theory and fundamental methods in sufficient experimental detail which have been successfully used in our studies of viral genome and eukaryotic gene regulation. Specific protocols together with troubleshooting tips are given for RT-PCR amplification, gene cloning, hybridization analysis and sequencing of nucleic acids, PCR-based site-specific mutagenesis, analysis of protein DNA-specific interaction, cell-free protein synthesis and product electrophoretic and immunological analysis.

The methods chosen have been approved in several international Molecular Biology Courses and without doubt can be used as a manual in basic molecular studies of DNA and RNA.

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