
Preface

The wealth of primary information provided by genome sequencing projects in various species is of enormous potential value in our efforts to understand biological functions and molecular interactions not only in normal development and cellular physiology, but also in diseases. However, utilization of these resources can come only from the development and application of a fully integrated set of molecular, biochemical, biophysical, and genetic skill bases. As key components of many cell signalling pathways, protein kinases are implicated in a broad variety of diseases, including cancers and neurodegenerative conditions, and offer considerable potential as tractable targets for therapeutic intervention. With these issues in mind, the present volume has been compiled to provide examples of core skills required for analysis of kinase-mediated signalling cascades, with particular emphasis on identification of proteins according to interactive relationships and analysis of functional properties of signalling proteins.

Compilation of Protein Kinase Protocols has been possible only as a result of the effort of all the contributors, and I am grateful to them for taking the time and having the patience to disseminate the detailed information required in order that others can succeed in the application of these techniques. Most importantly, I extend my deepest gratitude to Chris, Emma, and Helen for making it all worthwhile

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