

Preface

"Chemical Biology" is a rapidly evolving interdisciplinary research area, where tools and techniques drawn from the physical and biomedical sciences are combined. Initially born out of a truly chemical synthesis approach to answer biological problems, other physical sciences disciplines such as physical and theoretical chemistry as well as physics, mathematics and engineering are becoming part of this new discipline. Thirteen different techniques and their corresponding biomedical applications drawn from the latter disciplines are portrayed in this modular textbook by leading physical investigators. Written for an audience with a basic understanding of the physical sciences this compendium is of particular value to biomedical researchers as well as advanced graduate students interested in venturing into Chemical Biology.

Given that Chemical Biology is in its infancy the editors are very conscious of the fact that no publication of this type can present an exhaustive documentation of currently available techniques. However it is hoped that the selected techniques and the corresponding examples for their application in biomedical research will serve to inform readers of their potential and inspire and encourage researchers to consider incorporating appropriately, physico-chemical methods in their research.

A website for this book can be found at www.wiley.com/go/larijanichemical

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