

PREFACE

The interest and importance of bioorganic chemistry continues to expand as the contributing areas of organic chemistry, biological chemistry, medicinal chemistry, biochemistry, molecular biology and immunology evolve. Representative of the evolution and advances are the studies detailed herein which include the development of powerful reagents and catalysts for organic synthesis, enzyme mimics, detailed studies of enzymatic catalysis and enzymatic inhibition, chemical models of enzymatic catalysis, catalytic antibodies, monoclonal antibodies, antitumor agents, antiviral agents, small molecule DNA binding affinity, specificity, and/or reactivity, detailed studies on the evaluation of induced DNA reactions, methodology for the incorporation of unnatural amino acids into peptides and proteins, the use of or improvement in new techniques for substantial protein synthesis, reagents and techniques for mapping enzyme active sites or protein structure, computational models in the solution phase, molecular recognition, synthesis and structural evaluation of DNA deoxyoligonucleotide replacements, and novel biosynthetic studies. Unfortunately, the selection of articles and contributing authors in this Symposium-in-Print was necessarily limited and it was not possible to include contributions from most laboratories in which pioneering research in bioorganic chemistry is being conducted. Nonetheless, it is my hope that this modest representation of the field presents many of the new and exciting areas of bioorganic chemistry.

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