

Contents

DETAILED LISTING OF REPORTS	vii
FOREWORD - Sergio Papa	xliii
FROM THE ORGANIZERS - Günter Schäfer	xlv
ICSU SHORT REPORTS: A MESSAGE FROM THE ICSU PRESS	xlvii

SYMPOSIA AND COLLOQUIA LECTURES

Microbial Energy Conversion and Conservation	2-11
Structure and Control of Bacterial Redox Systems and Ion-Pumps	12-23
Structural Aspects, Conformation and Topography of Bioenergetic Systems	24-31 42-51
Structural Organization of Oligomeric Complexes in Energy Transducing Membranes	32-41
Relation of Structure and Function in Bioenergetic Systems	52-63
Genetic and Evolutionary Aspects of Bioenergetic Systems	64-71
Biogenesis of Bioenergetic Systems	72-83
Catalytic Site Mechanisms in Energytransduction	85-94
Mechanism and Regulation of ATP-Synthase	94-103
Mechanism of Electron Transport	104-113

POSTER PRESENTATIONS

I. Mechanism and Components of Electron Transport	116-223
II. Generation and Utilization of Proton Motive Force	224-289
III. H ⁺ -ATPases: Structure, Function and Regulation	290-391
IV. ATP-Driven Cation Pumps	392-423
V. Anion Transport Systems	424-461
VI. Bioenergetics of Integrated Cellular Systems	463-517
VII. Bioenergetic Aspects of Metabolic Regulation	518-563
VIII. Biosynthesis and Molecular Genetics of Energy Transducing Membrane Components	564-611
IX. Light Driven Bioenergetic Systems	612-681
X. Selected Special Topics	682-733
AUTHOR INDEX	735-745