

CONTENTS

	PAGE
<i>Foreword</i>	1
<i>Preface</i>	3
HESS, B. The glycolytic oscillator	7
WOHLFARTH-BOTTERMANN, K. E. Oscillatory contraction activity in <i>Physarum</i>	15
GERISCH, G., MALCHOW, D., ROOS, W. & WICK, U. Oscillations of cyclic nucleotide concentrations in relation to the excitability of <i>Dictyostelium</i> cells	33
NELSON, P. G. & HENKART, M. P. Oscillatory membrane potential changes in cells of mesenchymal origin: the role of an intracellular calcium regulating system	49
ISRAËL, M., DUNANT, Y., LESBATS, B., MANARANCHE, R., MARSAL, J. & MEUNIER, F. Rapid acetylcholine and adenosine triphosphate oscillations triggered by stimulation of the <i>Torpedo</i> electric organ	63
MATTHEWS, E. K. & O'CONNOR, M. D. L. Dynamic oscillations in the membrane potential of pancreatic islet cells	75
MEECH, R. W. Membrane potential oscillations in molluscan 'burster' neurones	93
CHAPLAIN, R. A. Metabolic control of neuronal pacemaker activity and the rhythmic organization of central nervous functions	113
LEVITAN, I. B., HARMAR, A. J. & ADAMS, W. B. Synaptic and hormonal modulation of a neuronal oscillator: a search for molecular mechanisms	131
CONNOR, J. A. On exploring the basis for slow potential oscillations in the mammalian stomach and intestine	153
BROWN, H., DiFRANCESCO, D. & NOBLE, S. Cardiac pacemaker oscillation and its modulation by autonomic transmitters	175
TSIEN, R. W., KASS, R. S. & WEINGART, R. Cellular and subcellular mechanisms of cardiac pacemaker oscillations	205
BERRIDGE, M. J. & RAPP, P. E. A comparative survey of the function, mechanism and control of cellular oscillations	217
RAPP, P. E. An atlas of cellular oscillators	281