Reviews of

## 131 Physiology Biochemistry and Pharmacology

Special Issue on Membrane-Mediated Cellular Responses: The Roles of Reactive Oxygens, NO, CO II

## **Editors**

M.P. Blaustein, Baltimore R. Greger, Freiburg H. Grunicke, Innsbruck R. John, New Haven L.M. Mendell, Stony Brook D. Pette, Konstanz G. Schultz, Berlin M. Schweiger, Berlin

Honorary Editor: E. Habermann, Gießen

With 23 Figures and 6 Tables



## Contents

Oxidative Damage to DNA:
Formation, Measurement, and Biological Significance
By J. Cadet, M. Berger, T. Douki, and JL. Ravanat,
Grenoble, France
(With 13 Figures and 1 Table) 1
Metabolisms of Cyclic ADP-Ribose:
A New Role for NAD <sup>+</sup> Glycohydrolases
By M. Ziegler, D. Jorcke, and M. Schweiger,
Berlin, Germany
(With 3 Figures and 2 Tables)
The Role of Poly(ADP-Ribosyl)ation
By S.L. Oei, J. Griesenbeck, and M. Schweiger,
Berlin, Germany
(With 3 Figures and 2 Tables) 127
A Discussion of Mechanisms of NO Genotoxicty:
Implication of Inhibition of DNA Repair Proteins
By F. Laval, Le Kremlin-Bicêtre, France, D.A. Wink,
Bethesda, USA, and J. Laval, Villejuif, France
(With 4 Figures and 1 Table) 175

Indexed in Current Contents