

## Contents

Preface	v
<i>A Ciechanover and M G Masucci</i>	
The Ubiquitin System and Some of Its Roles in Cell Cycle Control	1
<i>A Hershko</i>	
The Ubiquitin System and the N-End Rule Pathway	11
<i>A Varshavsky</i>	
Phosphorylation-Dependent Substrate Recognition in Ubiquitin-Mediated Proteolysis	37
<i>M Tyers, P Klein and T Pawson</i>	
The 26S Proteasome: A Supramolecular Assembly Designed for Controlled Proteolysis	67
<i>W Baumeister and P Zwickl</i>	
Mechanisms and Regulation of Ubiquitin-Mediated, Limited Processing of the NF- $\kappa$ B $\alpha$ Precursor Protein p105	81
<i>A Ciechanover, H Gonen, B Bercovich, S Cohen and A Orian</i>	
Regulation of Receptor Tyrosine Kinases by Ubiquitination	97
<i>A Citri and Y Yarden</i>	
Regulation of p27 Degradation	141
<i>J Bloom and M Pagano</i>	

Ubiquitin System-Dependent Regulation of Growth Hormone Receptor Signal Transduction and Effects of Oxidative Stress <i>C M Alves dos Santos and G J Strous</i>	163
Inhibition of the Ubiquitin-Proteasome System by a Viral Repetitive Sequence <i>N P Dantuma and M G Masucci</i>	189
Autosomal Recessive Juvenile Parkinsonism and the Ubiquitin Pathway <i>K Tanaka, T Suzuki, T Chiba, T Kitami, Y Machida, S Sato, N Hattori and Y Mizuno</i>	205