

# Contents

Contributing Authors .....	vii
Preface .....	ix
Acknowledgments .....	x
1. Reperfusion Injury: Definitions and Historical Background .....	1
<i>Robert B. Jennings and Derek M. Yellon</i>	
2. Myocardial Injury During Ischemia and Reperfusion: Concepts and Controversies .....	13
<i>David J. Hearse</i>	
3. Do Free Radicals Contribute to Myocardial Cell Death During Ischemia–Reperfusion?.....	35
<i>James M. Downey and Derek M. Yellon</i>	
4. The Contribution of Neutrophil Activation and Changes in Endothelial Function to Myocardial Ischemia–Reperfusion Injury .....	59
<i>Kevin M. Mullane and Mark Young</i>	
5. Consequences of Ischemia–Reperfusion on the Coronary Microvasculature .....	85
<i>Robert A. Kloner and Karin Przyklenk</i>	
6. Postischemic Myocardial “Stunning”: Pathogenesis, Pathophysiology, and Clinical Relevance.....	105
<i>Roberto Bolli</i>	
7. Reperfusion Injury: A Clinical Perspective .....	151
<i>Keith A. A. Fox</i>	
8. Preconditioning: Definitions, Proposed Mechanisms, and Implications for Myocardial Protection in Ischemia and Reperfusion .....	165
<i>Keith A. Reimer and Robert B. Jennings</i>	
9. Stress Proteins and Myocardial Protection During Ischaemia and Reperfusion .....	185
<i>Derek M. Yellon and David S. Latchman</i>	

*CONTENTS*

10. Where Do We Stand with Respect to Reperfusion in the 1990s? Clinical and Experimental Perspectives.....	197
<i>Lionel H. Opie</i>	
Subject Index .....	209