insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

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Preface

The endothelium, long regarded as a simple, inactive barrier between blood and the surrounding tissues, is now recognized as an extremely active system which plays a major role in an array of important metabolic processes and physiological functions. These include, among others, regulation of coagulative mechanisms, clearance of circulating lipids, regulation of the renin-angiotensin system, and participation in the immune response. The development of appropriate methods for studying the endothelium, especially the progress in the methods of in vitro endothelial cell culture, has greatly expanded our knowledge of the many functions of endothelium both in the normal state and in pathologic processes. It is now well established that endothelial lesions are involved in the pathogenetic mechanisms of such important clinical conditions as atherosclerosis and diabetic microangiopathy. Given this background, we decided to develop a form which would allow experts in endothelial pathology to exchange opinions and ideas, analyze and evaluate current methods for studying endothelial function, and to outline possibilities of future development. This led to the organization of the International Diabetes Federation Congress ‘Satellite Symposium’ on Endothelial Cell Function in Diabetic Microangiopathy. Problems in Methodology and Clinical Aspects, which was held in Melbourne, November 27-29, 1988. At this meeting, scientists from various parts of the world met to discuss in depth the many facets of endothelium research.

This volume is the edited version of the presentations delivered at the Melbourne Symposium. It reflects the rich scientific contents of this meeting and is one of the first books devoted both to the methods and results of research on the endothelial system. The main topics covered by the
various chapters include the morphology, metabolism and physiology of capillaries and endothelium both in the normal state and in diabetes, the growth, replication and reactivity of endothelial cells, the changes in capillary permeability, the relationships between endothelial alterations and coagulation factors, and the regulation of angiogenesis and neovascularization. By providing easy access to the most advanced views in this rapidly expanding area of investigation, we hope that this book will be useful to both scientists and physicians interested in the physiology and pathology of the endothelium.

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