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**MOLECULAR AND  
CELLULAR ASPECTS  
OF SHOCK AND  
TRAUMA**

**EDITORS: Allan M. Lefer  
William Schumer**

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# **MOLECULAR AND CELLULAR ASPECTS OF SHOCK AND TRAUMA**

**Proceedings of the U.S.A.–Japan Binational Conference  
Held in Kona, Hawaii, June 21–24, 1982**

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## **Preface**

This volume represents the proceedings of the U.S.A.-Japan Binational Conference, "Molecular and Cellular Aspects of Shock and Trauma," held in Kona, Hawaii, on June 21–24, 1982. The conference was jointly planned by American and Japanese scientists and was scheduled in Hawaii, as a cultural as well as geographical midpoint between East and West.

Presented here are the major contributions of this binational conference, which was planned to include the most recent and important work in the vital field of pathophysiology and treatment of circulatory shock and related trauma. Part I reviews important concepts and new breakthroughs in the metabolism of shock. This area covers cellular metabolism in shock as a separate entity, as well as other aspects of the subject, such as the regulation of electron transport and the metabolism of carbohydrates and lipids. A section on humoral mediators in shock discusses new information on toxic factors and new concepts involving the cyclic nucleotides and opiate peptides, which open up new approaches to the treatment of shock.

Part II, on therapeutic avenues, synthesizes much of the early work in the field and focuses on promising new leads in the treatment of shock states. Some of these avenues are well established but not totally understood—for example, the glucocorticoids and some protease inhibitors—whereas others represent entirely new approaches: calcium channel blockers, reduced glutathione, and new protease inhibitors.

The presentations from both Japan and the U.S.A. were well received on both sides of the Pacific. Clearly, much innovative material has emanated from this exciting synthesis of East and West. Those of us who helped to plan the conference are justifiably proud of and pleased with the results.

**Allan M. Lefer, PhD**  
**William Schurer, MD**

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