DESCRIPTION

Reviews all the latest basic and clinical research findings

With contributions from leading international experts in the field, this book is dedicated to all facets of uremic toxins research, including low molecular weight solutes, protein-bound solutes, and middle molecules. Moreover, it covers everything from basic mass spectrometry research to the latest clinical findings and practices.

Uremic Toxins is divided into three sections:

• **Section One**, Uremic Toxins, explores the definition, classification, listing, and mass spectrometric analysis of uremic toxins

• **Section Two**, Selected Uremic Toxins, describes key uremic toxins, explaining chemical structures, metabolism, analytical methods, plasma levels, toxicity, clinical implications, and removal methods. Among the uremic toxins covered are indoxyl sulfate, asymmetric dimethylarginine, PTH, β2-microglobulin, and AGEs

• **Section Three**, Therapeutic Removal of Uremic Toxins, describes how uremic toxins can be removed by hemodialysis, peritoneal dialysis, and oral sorbent

All chapters are based on the authors' thorough review of the literature as well as their own personal laboratory and clinical experience. References at the end of each chapter provide a gateway to the literature in the field.
Reviewing all the latest basic and clinical research findings, *Uremic Toxins* will help bench scientists in nephrology advance their own investigations. It will also help clinicians take advantage of the latest tested and proven treatments for the management of chronic kidney disease.

**ABOUT THE AUTHOR**

**TOSHIMITSU NIWA, MD, PhD**, is Professor in the Department of Advanced Medicine for Uremia at the Nagoya University Graduate School of Medicine. President of the Japanese Society for Biomedical Mass Spectrometry, Dr. Niwa has received many honors for his research, including the Kimoto Prize of the Japanese Society for Dialysis Therapy and the International Society of Uremia Research and Toxicity Award. He has published more than 300 articles in peer-reviewed journals.

**SERIES**

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