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Nota di contenuto	Uremic toxins : an integrated overview of definition and classification / Richard J. Glassock and Shaul G. Massry -- Classification and a list of uremic toxins / Nathalie Neirynck ... [et al.] -- Analysis of uremic toxins with mass spectrometry? / Toshimitsu Niwa -- Indoxyl sulfate / Toshimitsu Niwa -- P-cresyl sulfate / Anneleen Pletinck, Raymond Vanholder, and Griet Glorieux -- 3-carboxy-4-methyl-5-propyl-2-furanpropionic acid / Toshimitsu Niwa -- Phenylacetic acid / Anna Schulz and Joachim Jankowski -- Homocysteine and hydrogen sulfide : two opposing aspects in the pathobiology of sulfur compounds in chronic renal failure / Alessandra F. Perna and Diego Ingrosso -- Guanidino compounds / Sunny Eloot ... [et al.] -- Asymmetric dimethylarginine / Vladimir Teplan and Jaroslav Racek -- Nicotinamide metabolites / Przemyslaw Rutkowski and Boleslaw Rutkowski -- Dicarbonyls (glyoxal, methylglyoxal, and 3-deoxyglucosone) / Naila Rabbani and Paul J. Thornalley -- Glucose degradation products in

peritoneal dialysis / Monika Pischetsrieder and Sabrina Gensberger -- Dinucleoside polyphosphates / Joachim Jankowski and Vera Jankowski -- Parathyroid hormone / Shaul G. Massry and Miroslaw Smogorzewski -- 2-microglobulin / Suguru Yamamoto ... [et al.] -- Cytokines / Bjorn Anderstam, Bengt Lindholm, and Peter Stenvinkel -- Free immunoglobulin light chains / Gerald Cohen and Walter H. Hirl -- Advanced glycation end-products (AGEs) / Naila Rabbani and Paul J. Thornalley -- Oxidized albumin / Maurizio Bruschi ... [et al.] -- Therapeutic removal of uremic toxins by hemodialysis / Tammy L. Sirich, Pavel Aronov, and Timothy W. Meyer -- Therapeutic removal of uremic toxins by peritoneal dialysis / Malgorzata Debowska ... [et al.] -- Therapeutic removal of uremic toxins by oral sorbent / Toshimitsu Niwa.

Sommario/riassunto

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, ß2-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.