

NINTH EDITION

TIETZ FUNDAMENTALS OF

CLINICAL CHEMISTRY and MOLECULAR DIAGNOSTICS

Nader Rifai
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Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Carl A. Burtis,Edward R. Ashwood,David E. Bruns,2011-12-16 As the definitive reference for clinical chemistry Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 5th Edition offers the most current and authoritative guidance on selecting performing and evaluating results of new and established laboratory tests Up to date encyclopedic coverage details everything you need to know including analytical criteria for the medical usefulness of laboratory procedures new approaches for establishing reference ranges variables that affect tests and results the impact of modern analytical tools on lab management and costs and applications of statistical methods In addition to updated content throughout this two color edition also features a new chapter on hemostasis and the latest advances in molecular diagnostics Section on Molecular Diagnostics and Genetics contains nine expanded chapters that focus on emerging issues and techniques written by experts in field including Y M Dennis Lo Rossa W K Chiu Carl Wittwer Noriko Kusakawa Cindy Vnencak Jones Thomas Williams Victor Weedn Malek Kamoun Howard Baum Angela Caliendo Aaron Bossler Gwendolyn McMillin and Kojo S J Elenitoba Johnson Highly respected author team includes three editors who are well known in the clinical chemistry world Reference values in the appendix give you one location for comparing and evaluating test results NEW Two color design throughout highlights important features illustrations and content for a quick reference NEW Chapter on hemostasis provides you with all the information you need to accurately conduct this type of clinical testing NEW Six associate editors lend even more expertise and insight to the reference NEW Reorganized chapters ensure that only the most current information is included **Tietz Textbook of Clinical Chemistry and Molecular Diagnostics** Nader Rifai,Andrea Rita Horvath,Carl Wittwer,2017-02-06 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage of the field that defines analytical criteria for the medical usefulness of laboratory procedures introduces new approaches for establishing reference ranges describes variables that affect tests and results examines modern analytical tools and their impact on laboratory management and costs and demonstrates the applications of statistical methods It is THE definitive reference in clinical chemistry now fully searchable and with quarterly content updates podcasts and extended content online through Expert Consult Provided by publisher Tietz Textbook of Clinical Chemistry and Molecular Diagnostics Carl A. Burtis,Edward R. Ashwood,David E. Bruns,2005-07-08 This is a Pageburst digital textbook the product description may vary from the print textbook Bridging the gap between the clinical laboratory and medical management by relating pathophysiology to analytical results in health and disease this classic resource provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Its up to date encyclopedic coverage of the field defines analytical criteria for the medical usefulness of laboratory procedures

introduces new approaches for establishing reference ranges describes variables that affect tests and results examines modern analytical tools and their impact on lab management and costs and demonstrates the applications of statistical methods All three editors are well known in the clinical chemistry world and they bring a wealth of expertise to this reference Encompasses the tremendous strides made in clinical laboratory medicine in recent years keeping readers completely up to date Nearly 800 tables and figures illustrate key issues in clinical chemistry A comprehensive chapter containing tables of reference values provides one location for comparing and evaluating test results A section has been added that contains 8 new chapters that focus on emerging issues and techniques in molecular diagnostics and genetics Co editor David Bruns the editor of Clinical Chemistry provides an authoritative look into laboratory medicine in general and specifically in the field of molecular technology

Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics - E-Book Carl A. Burtis, David E. Bruns, 2014-02-26 A condensed easier to understand student version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics 7th Edition uses a laboratory perspective in providing the clinical chemistry fundamentals you need to work in a real world clinical lab Coverage ranges from laboratory principles to analytical techniques and instrumentation analytes pathophysiology and more New content keeps you current with the latest developments in molecular diagnostics From highly respected clinical chemistry experts Carl Burtis and David Bruns this textbook shows how to select and perform diagnostic lab tests and accurately evaluate results Authoritative respected author team consists of two well known experts in the clinical chemistry world Coverage of analytical techniques and instrumentation includes optical techniques electrochemistry electrophoresis chromatography mass spectrometry enzymology immunochemical techniques microchips automation and point of care testing Learning objectives begin each chapter providing measurable outcomes to achieve after completing the material Key words are listed and defined at the beginning of each chapter and bolded in the text A glossary at the end of the book makes it quick and easy to look up definitions of key terms More than 500 illustrations plus easy to read tables help you understand and remember key concepts New chapters on molecular diagnostics include the principles of molecular biology nucleic acid techniques and applications and genomes and nucleic acid alterations reflecting the changes in this rapidly evolving field New content on clinical evaluation of methods kidney function tests and diabetes is added to this edition NEW multiple choice review questions at the end of each chapter allow you to measure your comprehension of the material NEW case studies on the Evolve companion website use real life scenarios to reinforce concepts

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spectrometry enzymology immunochemical techniques microchips automation and point of care testing Updated chapters on molecular diagnostics cover the principles of molecular biology nucleic acid techniques and applications and genomes and nucleic acid alterations reflecting the changes in this rapidly evolving field Learning objectives key words and review questions are included in each chapter to support learning More than 500 illustrations plus easy to read tables help readers better understand and remember key concepts NEW Clinical Cases from The Coakley Collection use real life scenarios to demonstrate how concepts from the text will come in to play in real life practice NEW Questions from The Deacon s Challenge of Biochemical Calculations Collection help reinforce concepts and help readers critical thinking skills NEW Updated content throughout the text keeps readers up to date on the latest techniques instrumentation and technologies

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