

FOURTH EDITION

HANDBOOK OF  
BIOCHEMISTRY  
AND MOLECULAR  
BIOLOGY

EDITED BY  
ROGER L. LUNDBLAD  
FIONA M. MACDONALD



CRC Press  
Taylor & Francis Group

# Handbook Of Biochemistry And Molecular Biology Fourth Edition

**Roger L. Lundblad, Fiona Macdonald**



## **Handbook Of Biochemistry And Molecular Biology Fourth Edition:**

**Handbook of Biochemistry and Molecular Biology, Fourth Edition** Roger L. Lundblad, Fiona Macdonald, 2010-05-21 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fourth edition of the Handbook of Biochemistry and Molecular Biology represents a dramatic revision the first in two decades of one of biochemistry's most referenced works This edition gathers a wealth of information not easily obtained including information not found on the web Offering a molecular perspective not available 20 years ago it provides physical and chemical data on proteins nucleic acids lipids and carbohydrates Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data Covering a wide range of topics from classical biochemistry to proteomics and genomics it also details the properties of commonly used biochemicals laboratory solvents and reagents Just a small sampling of the wealth of information found inside the handbook Buffers and buffer solutions Heat capacities and combustion levels Reagents for the chemical modification of proteins Comprehensive classification system for lipids Biological characteristics of vitamins A huge variety of UV data Recommendations for nomenclature and tables in biochemical thermodynamics Guidelines for NMR measurements for determination of high and low pKa values Viscosity and density tables Chemical and physical properties of various commercial plastics Generic source based nomenclature for polymers Therapeutic enzymes About the Editors Roger L Lundblad Ph D Roger L Lundblad is a native of San Francisco California He received his undergraduate education at Pacific Lutheran University and his PhD degree in biochemistry at the University of Washington After postdoctoral work in the laboratories of Stanford Moore and William Stein at the Rockefeller University he joined the faculty of the University of North Carolina at Chapel Hill He joined the Hyland Division of Baxter Healthcare in 1990 Currently Dr Lundblad is an independent consultant and writer in biotechnology in Chapel Hill North Carolina He is an adjunct Professor of Pathology at the University of North Carolina at Chapel Hill and Editor in Chief of the Internet Journal of Genomics and Proteomics Fiona M Macdonald Ph D F R S C Fiona M Macdonald received her BSc in chemistry from Durham University UK She obtained her PhD in inorganic biochemistry at Birkbeck College University of London studying under Peter Sadler Having spent most of her career in scientific publishing she is now at Taylor and Francis and is involved in developing chemical information products *Handbook of Biochemistry and Molecular Biology*, 2010-05-21 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fourth edition of the Handbook of Biochemistry and Molecular Biology represents a dramatic revision the first in two decades of one of biochemistry's most referenced works This edition gathers a wealth of information not easily obtained including information not found on the web Offering a molecular perspective not available 20 years ago it provides physical and chemical data on proteins nucleic acids lipids and carbohydrates Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data

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**Reference Sources for Small and Medium-sized Libraries, Eighth Edition** Jack O'Gorman, 2014-02-25 Focusing on new reference sources published since 2008 and reference titles that have retained their relevance this new edition brings O'Gorman's complete and authoritative guide to the best reference sources for small and medium sized academic and public libraries fully up to date About 40 percent of the content is new to this edition Containing sources selected and annotated by a team of public and academic librarians the works included have been chosen for value and expertise in specific subject areas Equally useful for both library patrons and staff this resource Covers more than a dozen key subject areas including General Reference Philosophy Religion and Ethics Psychology and Psychiatry Social Sciences and Sociology Business and Careers Political Science and Law Education Words and Languages Science and Technology History and Performing Arts Encompasses database products CD ROMs websites and other electronic resources in addition to print materials Includes thorough annotations for each source with information on author editor publisher cost format Dewey and LC classification numbers and more Library patrons will find this an invaluable resource for current everyday topics Librarians will appreciate it as both a reference and collection development tool knowing it's backed by ALA's long tradition of excellence in reference selection

Lewin's Genes XI Jocelyn E. Krebs, Benjamin Lewin, Elliott S. Goldstein, Stephen T. Kilpatrick, 2014 Molecular

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**The Craft of Research, Fourth Edition** Wayne C. Booth, Gregory G. Colomb, Joseph M. Williams, Joseph Bizup, William T. FitzGerald, 2016-10-07. A newly updated Fifth Edition of *The Craft of Research* has just been published under the ISBN 9780226826677. You can find it through search on this site or at any retailer. With more than three quarters of a million copies sold since its first publication, *The Craft of Research* has helped generations of researchers at every level, from first-year undergraduates to advanced graduate students to research reporters in business and government, learn how to conduct



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