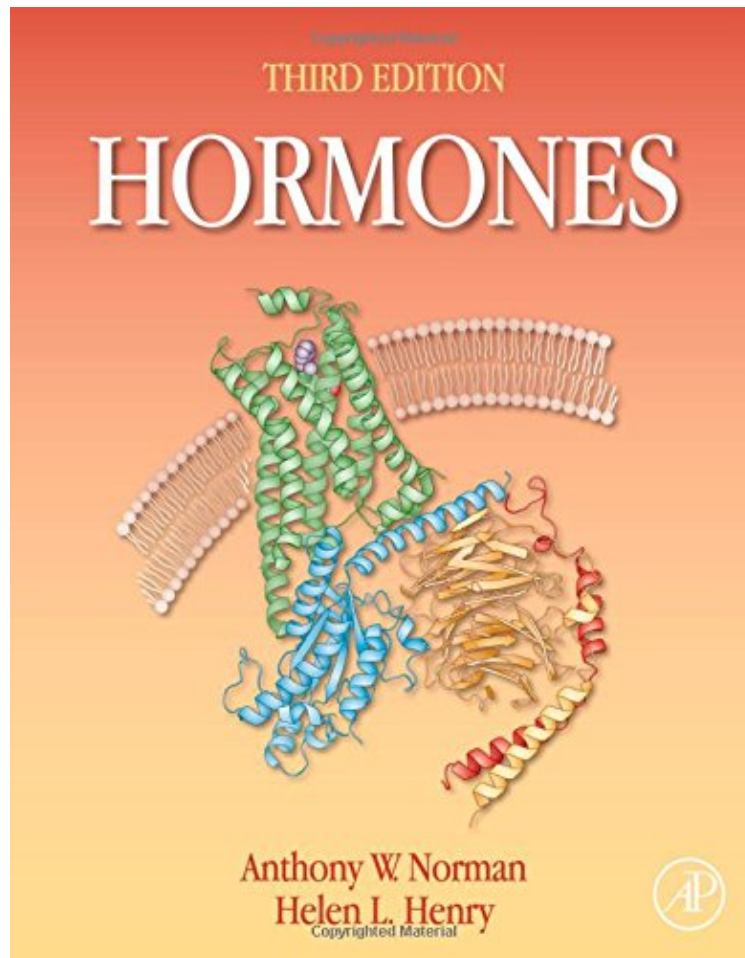


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Hormones, Third Edition

Anthony W. Norman, Helen L. Henry

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Anthony W. Norman, Helen L. Henry : Hormones, Third Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Hormones, Third Edition:

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The 3rd edition of Hormones offers a comprehensive treatment of the hormones of humans all viewed from the context of current theories of their action in the framework of our current understanding their physiological actions as well as their molecular structures, and those of their receptors. This new edition of Hormones is intended to be used by

advanced undergraduates and graduate students in the biological sciences. It will also provide useful background information for first year medical students as they engage in studies which are increasingly problem-based rather than discipline-focused. As the field of endocrinology itself has expanded so much in the past two decades, the up to date presentation of the basics presented in this book will be a solid foundation on which more specialized considerations can be based. New to this Edition: Hormones, 3rd Edition is organized with two introductory chapters followed by 15 chapters on selected topics of the molecular biology of the major endocrine systems operative in humans. Coverage, for the first time of the following hormones; ghrelin, oxyntomodulin, kisspeptin, adrenomedullin, FGF23, erythropoietin, VIP and extended coverage of NO. Coverage of the hypothalamus has been integrated with the anterior pituitary because of the intimate functional and relationship between the two. Consideration of the role of hormones in cancer has been integrated into the chapters on the relevant hormones. Each of these areas occupies a unique niche in our understanding of the biological world and is part of the universality of signaling systems and how they govern biological systems. Organized with two introductory chapters, followed by 15 chapters on selected topics of the molecular biology of the major human endocrine systems. New full color format includes over 300 full color, completely redrawn images. Companion web site will host all images from the book as PPT slides and .jpeg files. All chapters have been completely updated and revitalized. Coverage of the hypothalamus has been integrated into the anterior pituitary chapter and coverage of the thymus has been eliminated and left to immunology textbooks. Provides essential basics for advanced undergraduates and graduate students in the biological sciences, as well as first year medical students as they engage in studies which are increasingly problem-based rather than discipline-focused.

"This authoritative textbook describes the biochemistry, cell biology, physiology and molecular biology of hormones...All chapters have been completely updated and revitalized." --Anticancer Research, 2015

From the Back Cover: The newly revised and updated *Hormones, Second Edition* provides a comprehensive treatment of human hormones, viewed in light of modern theories of hormone action and in the context of current understanding of subcellular and cellular architecture and classical organ physiology. Each chapter presents a physiological description of the hormone system under consideration, followed by a listing of the mode-of-action of the hormone. This book includes significant advances in the molecular biology of receptors, hormones, and studies of hormone action that have transpired over the past five years. The text updates the material on enzymes related to steroid metabolism and new hormone systems, as well as providing a new chapter on hormones and cancer.

Key Features*

- Completely updates the material, covering new discoveries and significant advances since the First Edition was published in 1987*
- Contains new information regarding steroid hormones, the role of hormones in cancer, and a comprehensive introductory chapter*
- Presents an overview of virtually all important hormones*
- Provides detailed physiological, cellular, and molecular descriptions of classical human endocrine systems*
- Streamlines the presentation of the First Edition, making the book easier to use and read

About the Author

Anthony W. Norman received his A.B. from Oberlin College in 1959, and an M.S. and Ph.D. in Biochemistry in 1961 and 1963, respectively, from the University of Wisconsin, Madison. Following postdoctoral work in Paul D. Boyers group at UCLA, in 1964 he joined the Department of Biochemistry at University of California, Riverside, as an Assistant Professor. From 1976 to 1981 he served as Chair of the department and currently holds a Presidential Chair and is a Distinguished Professor of Biochemistry and Biomedical Sciences. Dr. Norman has also been active for some 25 years in medical education on the UC-Riverside campus and at UCLA through participation in the UR/UCLA Program in Biomedical Sciences, of which he was Dean and Director from 1986 to 1991. Dr. Norman's biomedical research career has focused on the mechanism of action of the vitamin D family of steroids. His chief contributions to these areas of cellular and molecular endocrinology have played a pivotal role in defining the boundaries of this research domain via discoveries that have opened new areas of investigation. The first of these was the discovery in 1968, and chemical characterization in 1971, of the hormonally active form of vitamin D, 1 α ,25(OH) $_2$ -vitamin D $_3$. Subsequent achievements include the discovery and characterization of the nuclear receptor for 1 α ,25(OH) $_2$ D $_3$, the clinical evaluation of 1 α ,25(OH) $_2$ D $_3$ in renal osteodystrophy, articulation of the concept of the vitamin D endocrine system, the importance of 1 α ,25(OH) $_2$ D $_3$ to insulin secretion and the discovery of a new rapid, nongenomic, signal transduction process for 1 α ,25(OH) $_2$ D $_3$. Dr. Norman has been the recipient of awards that include a Fulbright Fellowship, 1970; Public Health Service Career Development Award, 1970; Mead Johnson Award, American Institute of Nutrition, 1977; Ernst Oppenheimer Award, Endocrine Society, 1977; Visiting Lecturer Australian Society of Endocrinology, 1978; Visiting Faculty Member, Mayo Clinic, 1981; Prix Andre.

Helen L. Henry received her Ph.D. in 1970 from Washington University, St. Louis and did postdoctoral work in animal reproduction at Ohio State University. Following further postdoctoral work at University of California, Riverside, she joined the faculty and is currently Professor of Biochemistry. From 1990 to 1996 she served as Associate Dean of Biological Sciences in the College of Natural and Agricultural Sciences. Dr. Henry's laboratory has made major contributions to the understanding of vitamin D metabolism, particularly regulation of the production of the active vitamin D hormone by the kidney. She pioneered the use of cell culture systems to study renal vitamin D metabolism. A related area of research focus is the regulation of gene expression in the kidney by 1,25-dihydroxyvitamin D $_3$. In addition to peer-reviewed research articles, Dr. Henry has authored chapters for the

books Vitamin D and Handbook of Physiology, as well as the chapter on Vitamin D Metabolism for this Encyclopedia. Dr. Henry was awarded a National Institutes of Health (NIH) Research Career Development Award in 1977. She received the Fuller Albright Award from the American Society for Bone and Mineral Research in 1984 and has served this Society as a member of the Council and several Scientific Program Committees. Dr. Henry has been a member of the NIH General Medicine B Study Section (1989-1993) and the National Science Foundation Panel on Integrative Biology (1994-1996). She has served on the editorial boards of several scientific journals, including Endocrinology, American Journal of Physiology, and the Journal of Bone and Mineral Research. She is currently a member of the Endocrine Society, the American Society of Biochemistry and Molecular Biology, the American Society for Bone and Mineral Research, and the American Institute of Nutritional Sciences.