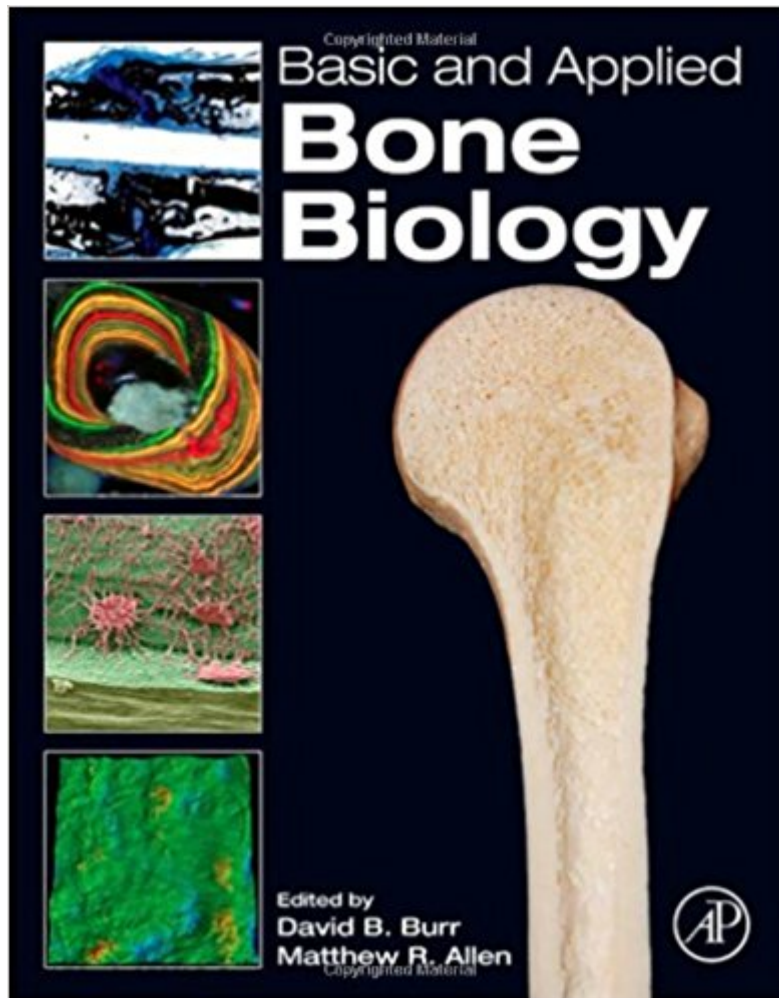


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# Basic And Applied Bone Biology



## Synopsis

This book provides an overview of skeletal biology from the molecular level to the organ level, including cellular control, interaction and response; adaptive responses to various external stimuli; the interaction of the skeletal system with other metabolic processes in the body; and the effect of various disease processes on the skeleton. The book also includes chapters that address how the skeleton can be evaluated through the use of various imaging technologies, biomechanical testing, histomorphometric analysis, and the use of genetically modified animal models. Presents an in-depth overview of skeletal biology from the molecular to the organ level Offers "refresher" level content for clinicians or researchers outside their areas of expertise Boasts editors and many chapter authors from Indiana and Purdue Universities, two of the broadest and deepest programs in skeletal biology in the US; other chapter authors include clinician scientists from pharmaceutical companies that apply the basics of bone biology

## Book Information

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"Quite a wide range of biomedical scientists cover basic bone biology and physiology, assessing bone structure and function, skeletal adaptation, hormonal and metabolic effects on bone, and skeletal disease and treatment. Among specific topics are bone modeling and remodeling, skeletal hard tissue biomechanics, skeletal growth and development, hormonal effects on bone cells, and pharmaceutical treatments of osteoporosis."--ProtoView.com, February 2014 "The textbook was designed for a graduate course in basic bone biology at Indiana University, and many of the

contributors teach there or nearby universities. Quite a wide range of biomedical scientists cover basic bone biology and physiology, assessing bone structure and function, skeletal adaptation, hormonal and metabolic effects on bone, and skeletal disease and treatment."--Reference & Research Book News, December 2013 "Basic and Applied Bone Biology provides a comprehensive background of bone science and related research techniques. Topics covered include bone physiology, biomechanics, histomorphometry, skeletal imaging, genetics, and fracture healing; in addition, clinical areas such as metabolic bone diseases and the pharmacological treatment of osteoporosis are discussed. The book is concise, clearly written and beautifully illustrated and will be an invaluable source of information for basic and clinical researchers!"--Juliet Compston, Professor of Bone Medicine, University of Cambridge, School of Clinical Medicine and Addenbrooke's NHS Trust, Department of Medicine, Cambridge, United Kingdom "I have enjoyed instructing graduate students and orthopedic residents in bone physiology but a reoccurring frustration has been the lack of a comprehensive textbook. I was delighted to learn that Drs. Burr and Allen were editing a textbook, Basic and Applied Bone Biology, and found the quality of the presentation to actually exceed my high expectations. The text is very readable and the illustrations informative and exceptionally clear. Based on the diversity of topics I reviewed, this book will be useful for all scientists engaged in bone research as well as students new to the discipline. I look forward to including it in my personal library as well as using it as a textbook!"--Russell T. Turner, PhD, Professor and Director, Skeletal Biology Laboratory, College Of Public Health and Human Sciences, Oregon State University, Oregon, USA

David B. Burr is a University Distinguished Professor of Anatomy and Cell Biology at Indiana University School of Medicine, and Professor of Biomedical Engineering at IUPUI. He joined the Indiana University School of Medicine faculty in 1990 as Chair of the Department of Anatomy (1990-2010), following faculty positions at the University of Kansas and West Virginia University Medical Schools. He served as President of the American Association of Anatomists (2007-2009) and the Orthopaedic Research Society, and is the Director of the IBMS Sun Valley Workshop on Musculoskeletal Biology. He is a fellow of the American Association of Anatomists, and serves as Editor-in-Chief for Current Osteoporosis Reports, Associate Editor for Bone and the J of Musculoskeletal and Neuronal Interactions. He is the author of more than 230 research articles in the peer-reviewed literature, 48 book chapters and reviews, and four books on the structure, function and mechanics of bone. Matthew R. Allen is an Associate Professor of Anatomy and Cell Biology at Indiana University School of Medicine. His research career, and interest in bone biology,

began at Alma College during a summer research fellowship and continued during his years as a PhD student at Texas A&M (in Kinesiology) and post-doctoral fellow at IU School of Medicine. His research focuses on understanding how interventions can be maximized to strengthen the skeleton and his teaching duties include Medical Histology (to first year medical students) and Basic Bone Biology (to graduate students). He serves on the Editorial Board for the Journal of Bone and Mineral Research, BONE, and BoneKEY, and as an Associate Editor for Clinical Reviews in Bone and Mineral Metabolism. He has authored more than 70 research articles and 18 book chapters and reviews.

Good text for a wide view on bone biology and its structured biomechanics; really useful for every student and post-doc

It here are some deficiencies, but overall excellent.

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