

BONE HISTOLOGY

An Anthropological Perspective

A broad understanding of bone and tooth microstructure is necessary for constructing the biological profile of an individual or individuals within a population. *Bone Histology: An Anthropological Perspective* brings together authors with extensive experience and expertise in various aspects of hard tissue histology to provide a comprehensive discussion of the application of methods, current theories, and future directions in hard tissue research related to anthropological questions.

Topics discussed include:

- The biology underlying skeletal growth and development leading to adult skeletal morphology
- Current research in understanding bone modeling
- Histological features of dental hard tissues and their utility in biological anthropology
- Histological analysis as a means to differentiate human from non-human bone and for the purpose of age estimation
- The biomechanics of cortical bone
- Histotaphonomy and how postmortem microstructural change can be used for taphonomic inquiry
- The application of light microscopy in paleopathology to classify pathological conditions
- The histological study of bone tissue of archaeological origin
- Researchers' access to collections of bone samples with known demographic information
- Technological aspects of hard tissue histology, including laboratory requirements and high-resolution imaging

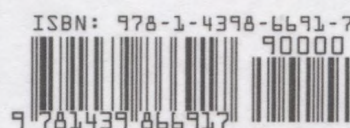
In most cases, the physical remains of humans available to bioarchaeologists, paleopathologists, and paleontologists are limited to skeletal material. Fortunately, these hard tissues are a storehouse of information about biological processes experienced during the life of an individual. This volume provides an overview of the current state of research and potential applications in anthropology and other fields that employ a histological approach to the study of hard tissues.

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Preface	vii
Editors	xiii
Contributors	xv

1	Bone Remodeling, Histomorphology, and Histomorphometry	1
	SAM STOUT AND CHRISTIAN CROWDER	
2	Growth and Development: Morphology, Mechanisms, and Abnormalities	23
	JAMES H. GOSMAN	
3	Making the Mold: A Microstructural Perspective on Bone Modeling during Growth and Mechanical Adaptation	45
	COREY M. MAGGIANO	
4	Histological Features of Dental Hard Tissues and Their Utility in Forensic Anthropology	91
	DEBBIE GUATELLI-STEINBERG AND MICHAELA HUFFMAN	
5	Differentiating Human from Nonhuman Bone Microstructure	109
	DAWN M. MULHERN AND DOUGLAS H. UBELAKER	
6	Histological Age-at-Death Estimation	135
	MARGARET STREETER	
7	Interpreting Load History in Limb-Bone Diaphyses: Important Considerations and Their Biomechanical Foundations	153
	JOHN G. SKEDROS	

8	Bone Fracture: Biomechanics and Risk	221
	AMANDA M. AGNEW AND JOHN H. BOLTE IV	
9	Histotaphonomy	241
	LYNNE S. BELL	
10	Light Microscopic Analysis of Macerated Pathologically Changed Bones	253
	MICHAEL SCHULTZ	
11	Histological Analyses of Human Bone from Archaeological Contexts	297
	SUSAN PFEIFFER AND DEBORRAH PINTO	
12	Bone Histology Collections of the National Museum of Health and Medicine	313
	BRIAN F. SPATOLA, FRANKLIN E. DAMANN, AND BRUCE D. RAGSDALE	
13	The Melbourne Femur Collection: How a Forensic and Anthropological Collection Came to Have Broader Applications	327
	C. DAVID L. THOMAS AND JOHN G. CLEMENT	
14	The Histology Laboratory and Principles of Microscope Instrumentation	341
	HELEN CHO	
15	Technological Developments in the Analysis of Cortical Bone Histology: The Third Dimension and Its Potential in Anthropology	361
	DAVID M. L. COOPER, C. DAVID L. THOMAS, AND JOHN G. CLEMENT	
	Index	377