

<b>Authors</b>	<b>Method</b>	<b>Type of Bone</b>	<b>Types of lamellae</b>	<b>Layer Thickness (µm)</b>	<b>Interpretation of lamellae orientation</b>
Frost, 1962	Polarized Microscopy	Human, multiple bones	Secondary osteon lamellae Circumferential lamellae	7.5 7.27	
Reid, 1986	Polarized Microscopy	Human rib	Osteonal/interstitial lamellae Circumferential lamellae	2.78-3.05 1.93-2.11	
Ardizzone, 2001	Polarized Microscopy; SEM	Human tibiae	Dense lamellae (maintain similar thickness) Loose lamellae (decrease in thickness towards Haversian canal) Lamellae (spiral and crescent-shaped patterns) Interlamellar lines	0.5-1.5 2.1-6.8 $9.06 \pm 2.13$	
Pazzaglia et al., 2012	SEM;Morphometrics	Human tibiae	Dense lamella	1.8-2.2	No obvious orientation; Interwoven, heterogeneous lamellae
Marotti et al., 2013	SEM/TEM	Human tibiae	Loose lamella	3.3-4.2	
Weiner et al., 1997	SEM/TEM	Rat tibia	Lamellar unit (thick, thin and transition zone)	3.2	Rotated plywood: 5 arrays with 30° angles and 120° backflip
Weiner et al., 1999	SEM/TEM	Rat, Human, Baboon and Bovine long bones	5 sublayers	"backflip" sublayer smaller in rat than human and baboon	
Ascenzi et al., 2003	Polarized Microscopy; X-Ray Diffraction		Dark lamellae (polarized light) Bright lamellae		Homogeneous, mostly oriented parallel to long axis of osteon Oblique angle ± 45° to long axis
Wagermaier et al., 2006	X-Ray Diffraction	Human femora	5-6 sublayers	5-7	Spiral twisting; 5 sublayers with 5° to 25° angles and around 6th jump to -30°
Faingold et al., 2013	Dual ion beam microscopy; SSV	Horse metacarpals	Disordered and unidirectional sub-lamella	5	Rotated-plywood-like; 5–15°, 40°, 80° and 110–120°
Reznikov et al., 2013	Dual ion beam microscopy; SSV	Rat tibiae	Fanning sub-lamella	3.5	Plywood-like fanning sub-lamellae
Varga et al., 2013	Synchrotron X-ray phase nano-tomography	Human femora	Uni-directional sub-lamella disordered sub-lamella	0.7-1.1 0.3	Oscillating/Twisted plywood; 0°-20° angle offsets
Reznikov et al., 2014	Dual ion beam microscopy; SSV	Human femora	Oscillating plywood Twisted plywood Ordered motif (repeats) (fanning and uni-directional) Disordered motif	4-8 6-9 2-3 0.25-1	Twisted plywood fanning sub-lamellae