



Figure S1 **Collagen fiber orientation of humeri in sampled bats.** Circularly polarized light in cleared sections of standardized thickness reveals lamellar and parallel-fibered bone. Black to white intensity of polarized light corresponds to longitudinally oriented and transversely oriented collagen fibers, respectively. Representative views are from the lateral octant of (A) *Rhinolophus lepidus*, (B) *Macrotus californicus*, (C) *Phyllostomus discolor*, (D) *Noctilio leporinus*, (E) *Rousettus leschenaultii*, and (F) *Pteropus vampyrus*. Periosteal surface points up in each panel. Scale bar equals (A & B) 200  $\mu\text{m}$ , (C) 300  $\mu\text{m}$ , (D) 400  $\mu\text{m}$ , (E) 480  $\mu\text{m}$ , and (F) 1200  $\mu\text{m}$ . Digital slides are available at <http://paleohistology.appspot.com>.