



Figure S3 **Bone histology of humeri in sampled bats stained to highlight cement lines.**

Sections stained with toluidine blue reveal lamellar bone, a complex canalicular network, resorption fronts, and canals of secondary osteons, which were excluded from analysis.

Representative views are from the posterior 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) 150 μm , (B) 200 μm , (C & D) 300 μm , (E) 480 μm , and (F) 800 μm . Digital slides are available at <http://paleohistology.appspot.com>.