

410 **Supplemental Figure 1: Display of raw mitochondrial quantifications.** Each bar represents
411 one of the three mice surveyed at respective age points while dots represent individual
412 mitochondria (n is approximately 300). Values are displayed for (A) mitochondrial volume, (B)
413 area, (C) perimeter, (D) complexity index, and (E) sphericity.

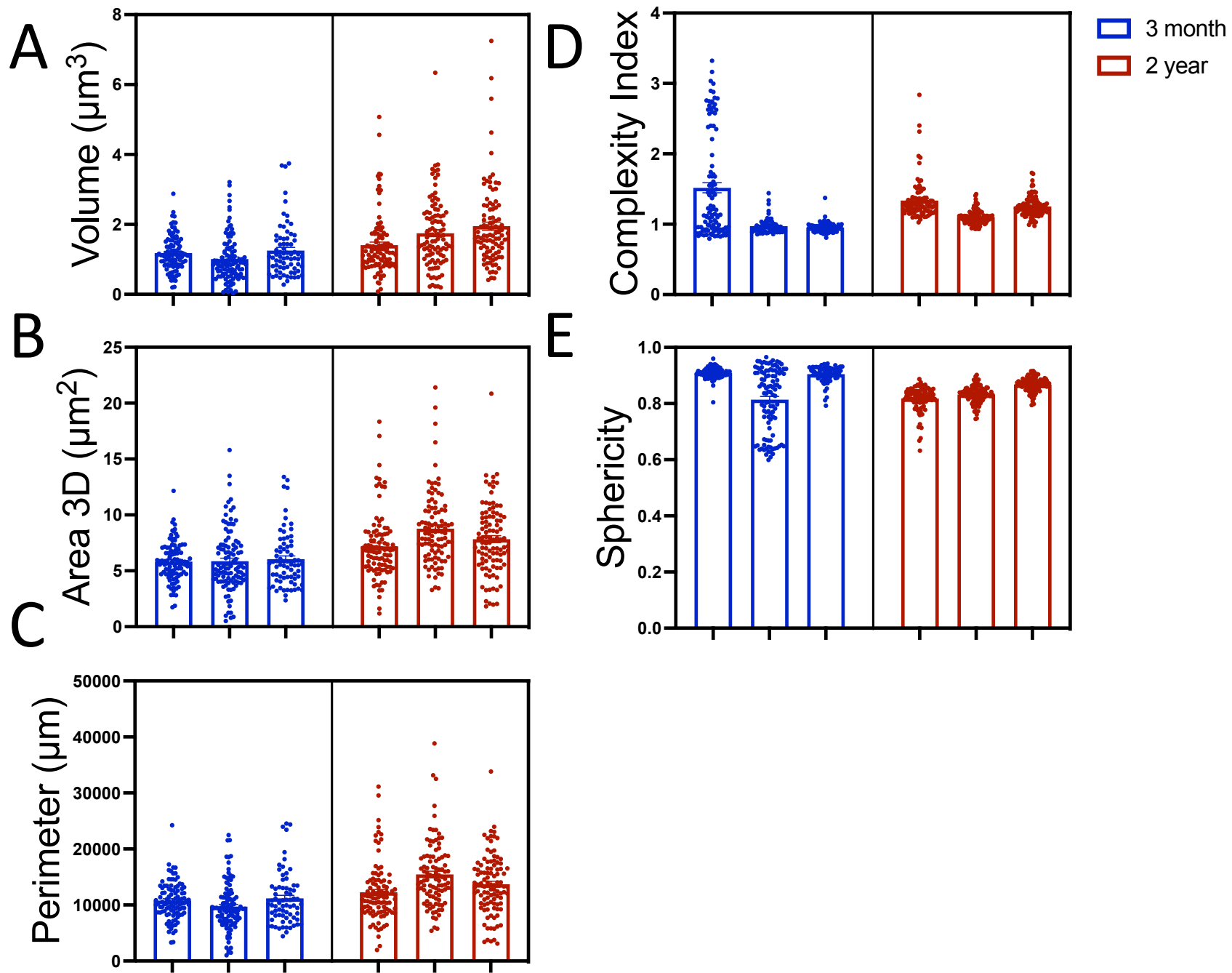
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415 **Supplemental Figure 2: Display of raw cristae quantifications.** Each bar represents one of the
416 three mice surveyed at respective age points while dots represent individual mitochondria (n is
417 approximately 300). Values are displayed for (A) cristae volume, (B) area, and (C) perimeter.

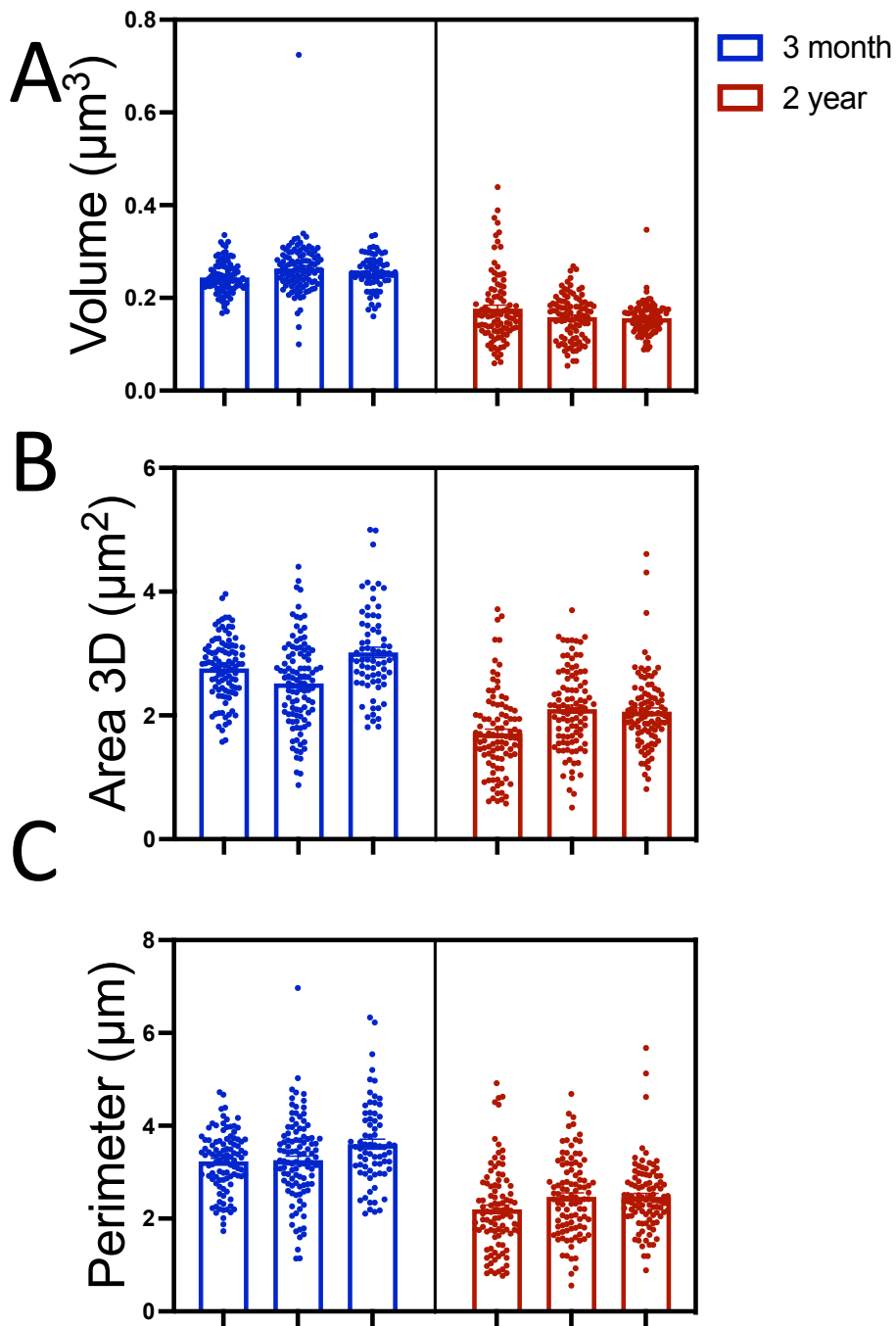
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419 **Supplemental Figure 3: Overall cristae-otyping changes across aging.** (A) 3-month murine
420 BAT 3D reconstruction of cristae viewed from the transverse and (A') 3D reconstruction viewed
421 from a longitudinal point of view. (B) 2-year murine BAT 3D reconstruction of cristae viewed
422 from the transverse point of view (B') 3D reconstruction viewed from a longitudinal point of
423 view. (C) Cristae-otyping to compare cristae morphology in samples from 3-month and 2-year
424 across volumes.

SFig. 1



SFig. 2



SFig. 3

