



**Supplementary Figure S2.** Representation of foveal outer retinal structure in subjects with usable AOSLO images versus subjects with unusable AOSLO images. (A) For achromatopsia, the ellipsoid zone (EZ) was graded as grade 1 if the EZ was intact and continuous, grade 2 if the EZ was disrupted, grade 3 if the EZ was absent and the external limiting membrane was collapsed, and grade 4 if a hyporeflective zone was present. There was a significant trend between the appearance of the EZ and the ability to quantify AOSLO images ( $p = 0.0126$ , Chi-square test for trend). (B) For albinism, there was no significant difference in OS length between those subjects with albinism for whom AOSLO images were usable (mean  $\pm$  SD =  $32.03 \pm 3.82$   $\mu\text{m}$ ) and those for whom AOSLO images were unusable (mean  $\pm$  SD =  $31.77 \pm 3.72$   $\mu\text{m}$ ;  $p = 1$ , Mann-Whitney test). The ends of the boxes are the 25th and 75th percentiles, the dashed line is the median, and the whiskers span the range of data.