



**Supplementary Fig. 2. Scanning electron micrographs of adult compound eyes.** (A, D) *GMR-GAL4/+; UAS-DREF/+*, (B) *GMR-GAL4/+; UAS-DREF/P{w+mGT=GT1}CG15636*, (C) *GMR-GAL4/+; UAS-DREF/CG15636rev*, (E) *GMR-GAL4/+; UAS-DREF/dp<sup>ovr</sup>*, (F) *GMR-GAL4/+; UAS-DREF/dp<sup>D</sup>*. These flies were developed at 28 °C.