



**Supplemental Figure 1.** Image of Col-0, ROP1-OE, *ren1-3*, *gdi2-ami2* and *gdi2-ami8* flower (a), anther (b) and stigma (c) under 65% relative humidity conditions. Scale bars=500 μm in the images of the first row, and = 100 μm in the SEM images of the 2nd and 3rd rows.