

Figure S4: A deficit of H3.3 induces a vitellogenic checkpoint response.

Wild type (A) and H3.3 null ovaries (B, C) labeled with DAPI. In contrast to the wild type ovariole (A), both  $H3.3B^\circ$ ,  $H3.3A^{2^*1}$  / Df(2L)BSC110 (B) and  $H3.3B^\circ$ ,  $H3.3A^{2^*1}$  / Df(2L)Exel7022 null females (C) had frequent follicle cell death (indicated by red arrows in B and C), nurse cell death (indicated by yellow arrows in B and C), and degeneration of mid stage egg chambers. Scale bars are 25  $\mu$ m.