

Supplementary Material

Insulin regulates primordial-follicle assembly *in vitro* by affecting germ-cell apoptosis and elevating oestrogen

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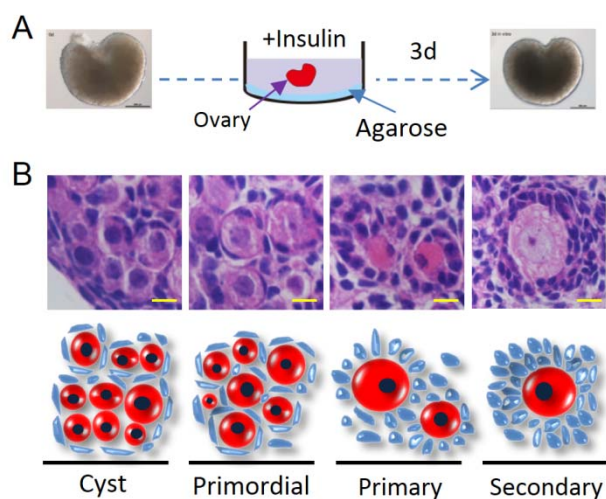


Fig. S1. Experiment design and folliculogenesis. (A) 0 dpp mouse ovaries were isolated and cultured *in vitro* with the presence of insulin for 3 days. (B) The structure and mode of cyst, primordial, primary and secondary follicle in culture system.

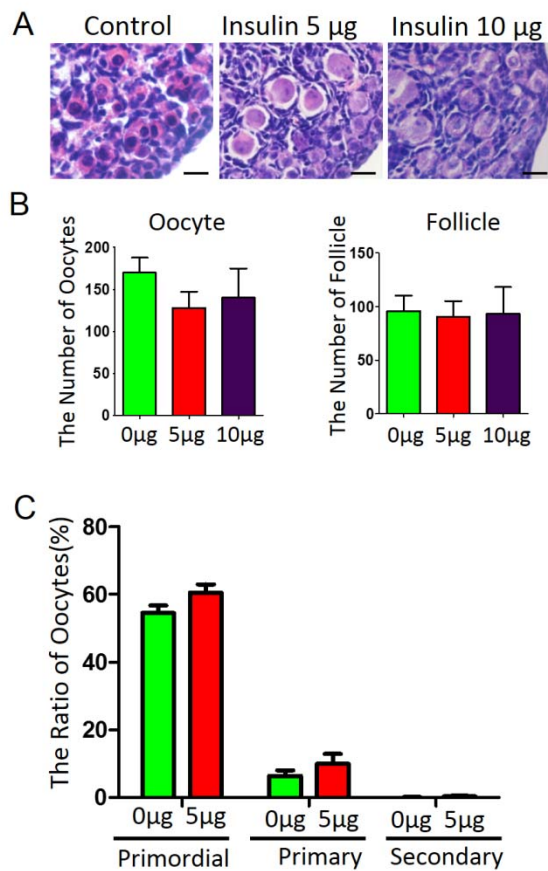


Fig. S2. Effect of insulin on follicle development. (A) Primary follicle was found in the insulin-treatment group. (B) The quantitative change of follicles and oocytes after insulin treatment. (C) The percentages of follicles at different developmental stages. The results are presented as mean \pm SD. Scale bar: 50 μm .

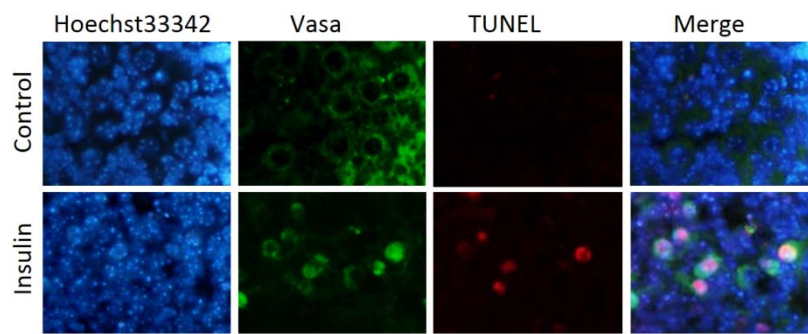


Fig. S3. TUNEL and immunofluorescence. Characteristics of apoptotic cells (red), MVH (green) of oocytes and Hoechst 33342 (blue) staining of the nuclei. Scale bar: 100 μm .