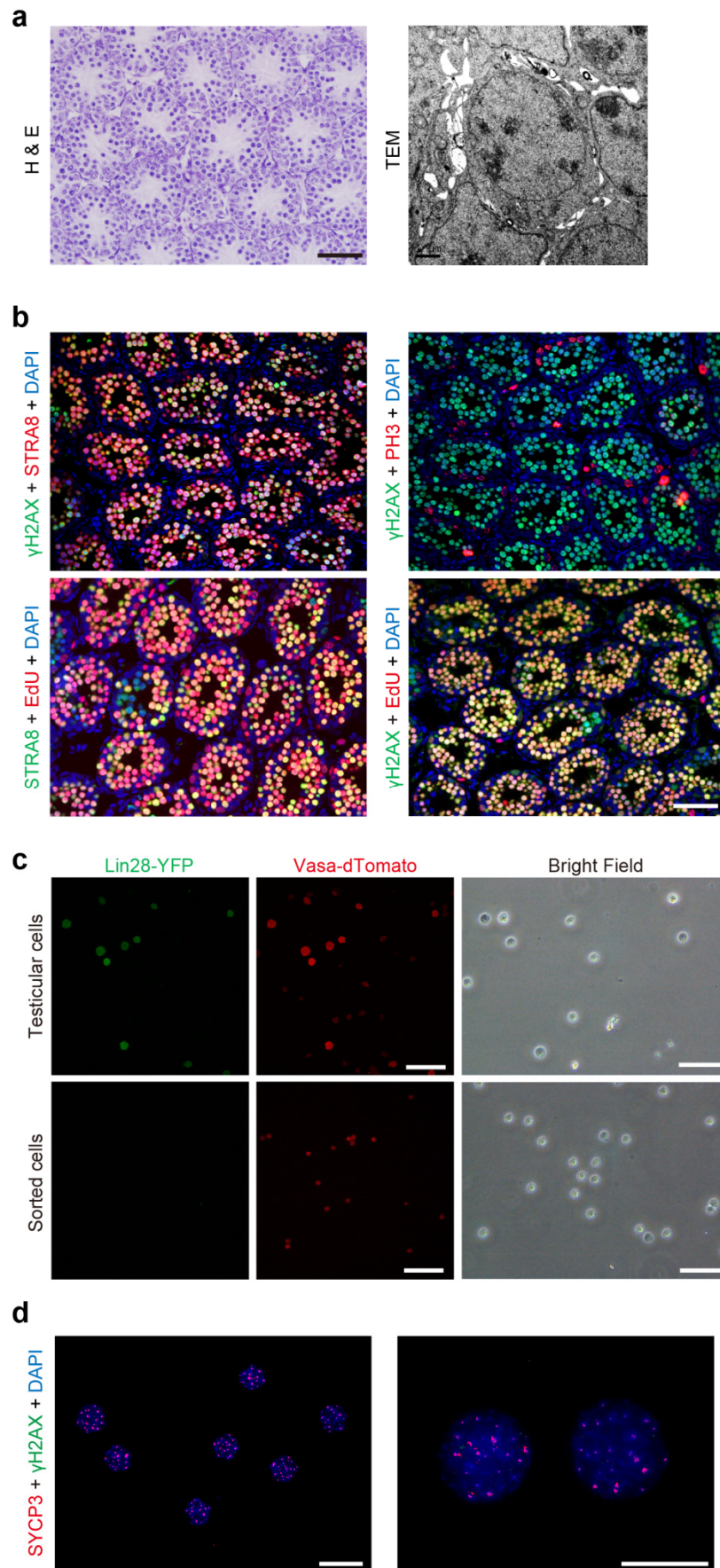


## Supplementary information, Figure S8



**Figure S8 Characterization of middle S phase of Preleptotene Spermatocytes (mPL) in synchronous spermatogenesis.** **a** H&E staining and TEM images depict representative cross sections of testes from mice treated with WIN 18,446 followed by an RA injection and allowed to recover for 174 h. **b** Immunohistochemical staining for  $\gamma$ H2AX, STRA8, EdU and PH3 in sections from mice treated with WIN 18,446/174 h RA. Scale bar, 50  $\mu$ m. **c** Representative fluorescence images (observed by fluorescence microscope) and bright field images (observed by inverted phase contrast microscope) of total testicular cell population (upper panel) and sorted cell population by FACS (lower panel). Scale bar, 50  $\mu$ m. **d** Surface-spread spermatocyte nuclei immunofluorescence staining for SYCP3,  $\gamma$ H2AX, and DAPI of the sorted cells. Scale bar, 50  $\mu$ m. The purity of middle S phase of Preleptotene Spermatocytes (mPL) is 97.9%.