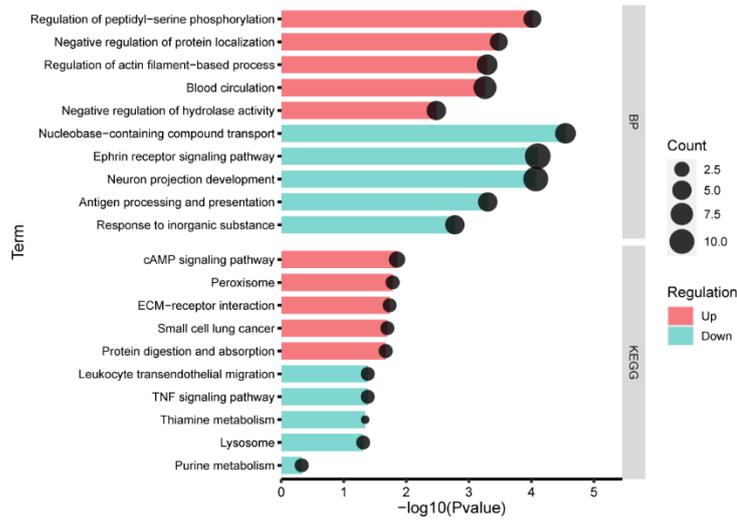
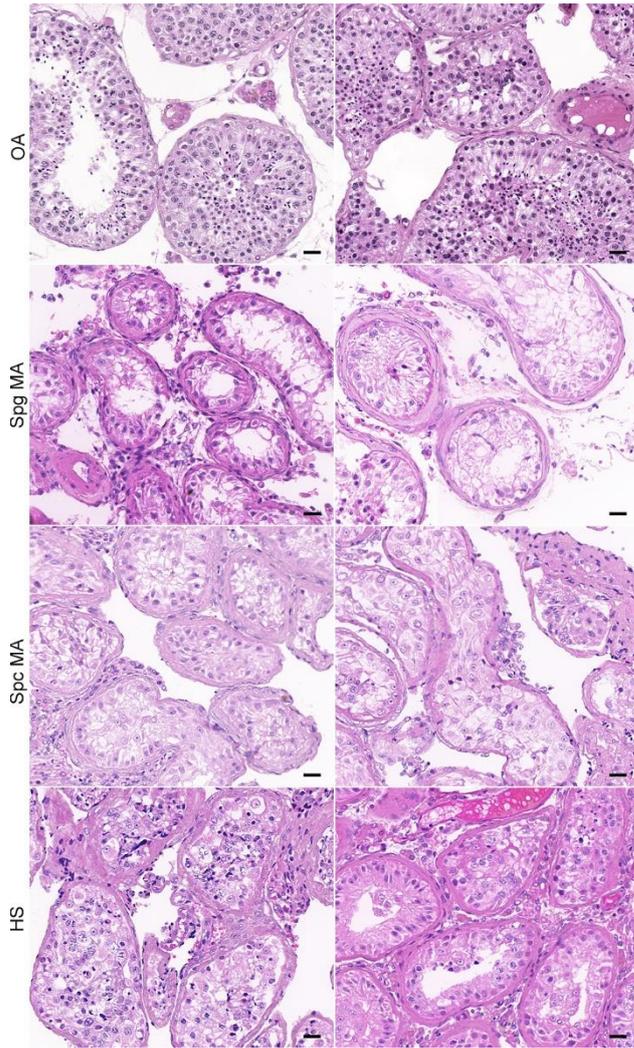


## Supplementary material

### Supplementary Figures



**Supplementary Figure 1. GO and KEGG analysis of genes significantly regulated by SPOCD1.**



**Supplementary Figure 2. HE staining of testicular tissue in eight patients with azoospermia.** According to the Johnsen scoring method, the spermatogenic status of eight samples was assessed as OA, Spg MA, Spc MA and HS. Each image represents one testicular sample. Scale bar, 50 $\mu$ m.