

Fig. S1. Immunodetection patterns of SPACA1 proteins in sperm samples from healthy fertile volunteers. The spermatozoa from healthy fertile volunteers, which were washed, collected by the swim-up method and then pre-incubated to induce capacitation according to the same procedures for infertile patients, were used for the immunostaining. Details were described in the legend of Fig. 2.



Fig. S2. Relationship between SPACA1 indexes and fertilization rates of conventional IVF treatments.



Fig. S3. Relationship between rates of morphologically abnormal spermatozoa and rates of embryos showing normal development to blastocysts in conventional IVF treatments.