



**Suppl Fig. 1.** Sperm cell population by flow cytometry. Four distinct populations can be identified with Annexin-V/PI assay. While late necrotic spermatozoa were stained with PI, but not with Annexin V (Suppl Fig. 1; UL), early necrotic spermatozoa were labeled with both Annexin V and PI (Suppl Fig. 1; UR). Viable spermatozoa were stained with neither Annexin V nor PI (Suppl Fig. 1; LL), while apoptotic spermatozoa were labeled with only Annexin V, but not with PI (Suppl Fig. 1; LR).