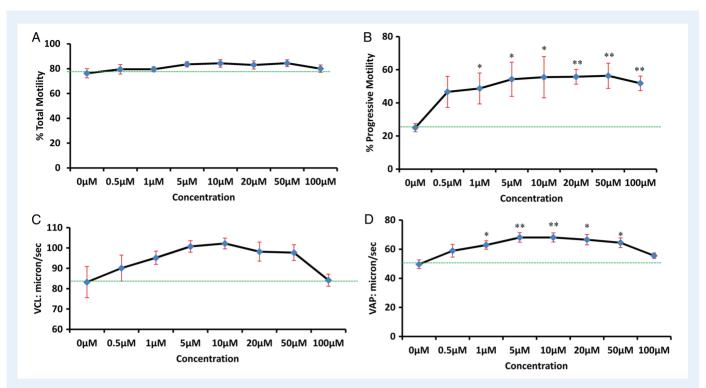
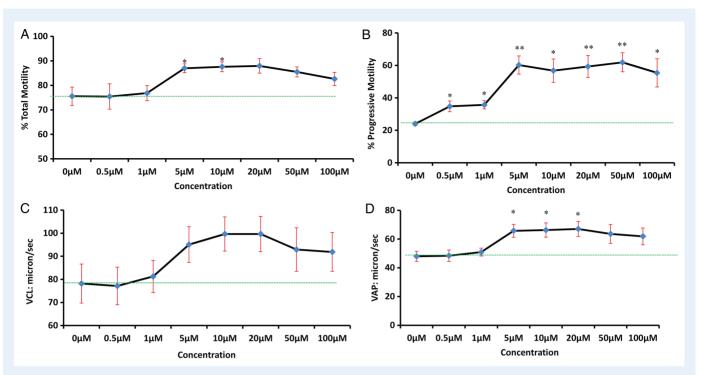


Supplementary Figure S3 Determination of minimum effective concentration of compound #26 on human sperm: The population of highly motile human spermatozoa was isolated by direct swim-up. Cells were incubated in NCM at 37°C for 1 h; they were then treated with compound #26 (final concentrations of 100, 50, 20, 10, 5, 1 and 0.5 μ M) or without compound (NCM, 0 μ M: non-capacitating media) and left to incubate for 20 min at 37°C (**A**) Percentage total motility. (**B**) Percentage progressive motility. (**C**) Curvilinear velocity. (**D**) Average path velocity n=4 (four different samples from two individuals), mean \pm SEM; one-way ANOVA (Tukey's honest significant difference), *P < 0.05 and **P < 0.01. The green line indicates 'cut off' represented by average value of control sample (NCM).



Supplementary Figure S4 Determination of minimum effective concentration of compound #37 on human sperm: The population of highly motile human spermatozoa was isolated by direct swim-up. Cells were incubated at 37°C for 1 h; they were then treated with compound #37 (final concentrations of 100, 50, 20, 10, 5, 1 and 0.5 μ M) or without compound (NCM, 0 μ M: non-capacitating media) and left to incubate for 20 min at 37°C (**A**) Percentage total motility. (**B**) Percentage progressive motility. (**C**) Curvilinear velocity. (**D**) Average path velocity, n=4 (four different samples from two individuals), mean \pm SEM; one-way ANOVA (Tukey's honest significant difference), *P<0.05 and **P<0.01. The green line indicates 'cut off' represented by average value of control sample (NCM).



Supplementary Figure S5 Determination of minimum effective concentration of compound #38 on human sperm: The population of highly motile human spermatozoa was isolated by direct swim-up. Cells were incubated at 37°C for 1 h; they were then treated with compound #38 (final concentrations of 100, 50, 20, 10, 5, 1 and 0.5 μ M) or without compound (NCM, 0 μ M: non-capacitating media) and left to incubate for 20 min at 37°C (**A**) Percentage total motility. (**B**) Percentage progressive motility. (**C**) Curvilinear velocity. (**D**) Average path velocity, n=3 (three different sample from two individuals), mean \pm SEM; one-way ANOVA (Tukey's honest significant difference), *P<0.05 and **P<0.01. The green line indicates 'cut off' represented by average value of control sample (NCM).