

***Capra hircus* spermatozoa (n=4)**



Cryopreservation in cryo-media contained BHT with different concentrations (0.0 mM, 0.5 mM, 1.0 mM, 2.0 mM)



Evaluation of sperm-quality associated indices



**Motility parameters, ROS levels
plasma membrane and acrosome integrities**

Comparative analysis



**TMT-based quantitative proteomics
Parallel reaction monitoring validation**



Bioinformatics analyses