



**Figure 3.** Cellular location and protein families distributions of the proteins identified in isolated sperm nuclei. (A) Analysis of the subcellular distribution of the different proteins identified in this study based on Uniprot and GO databases. The proteins were grouped according to the most abundant subcellular parts: nucleus, cytoplasm, cytoskeleton and their combinations. (B) Analysis of the protein family abundance. The most abundant family of proteins correspond to the histones followed by the Ribosome proteins, proteasome subunits, unknown or predicted proteins, cytokeeratins, Tubulins, SPANX proteins, HSPs and Tektins.