

Table 5. Proteins of histone H1 subtypes subnetworks selected by Cytoscape Diffusion algorithm with GO annotated in CELLO2GO software

H1 subtype	Protein name	Molecular function	Biological process
H1.1	DNA fragmentation factor subunit beta	Nuclease activity	DNA catabolic process
	Proline-rich protein 11	N/A	N/A
	Poly [ADP-ribose] polymerase 3	Transferase activity	DNA repair
	Splicing factor B subunit 2	RNA binding	mRNA processing
	Nuclear autoantigenic sperm protein	Protein binding	DNA metabolic process
	Zinc finger CCCH domain-containing protein 8	Ion binding	Cellular nitrogen compound metabolic process
	Zinc finger protein 48	Ion binding	Cellular nitrogen compound metabolic process
	Zinc finger protein 70	Ion binding	Cellular nitrogen compound metabolic process
	Serine/threonine protein kinase N1	Ion binding	Cellular nitrogen compound metabolic process
	Protein ADP-ribosylarginine hydrolase	Hydrolase activity	Cellular nitrogen compound metabolic process
	Transcription inhibition factor TFIID subunit 1	Ion binding	Cellular nitrogen compound metabolic process
H1.2	RNA binding protein 39	RNA binding	Cellular nitrogen compound metabolic process
	Nuclear autoantigenic sperm protein	Protein binding	DNA metabolic process

	DNA-dependent protein kinase catalytic subunit	Kinase activity	Cellular nitrogen compound metabolic process
	Histone H1.10	DNA binding	Cellular nitrogen compound metabolic process
	Zinc finger protein 22	Ion binding	Cellular nitrogen compound metabolic process
	Barrier-to-autointegration factor	DNA binding	Cellular nitrogen compound metabolic process
H1.3	PMS1 protein homolog 1	DNA binding	Mismatch repair
	DNA fragmentation factor subunit beta	Nuclease activity	DNA catabolic process
H1.4	DNA replication licensing factor MCM2	DNA binding	Cellular nitrogen compound metabolic process
	Histone-lysine N-methyltransferase EHMT2	Methyltransferase activity	DNA methylation
	DNA replication licensing factor MCM5	Helicase activity	DNA replication
	Chromobox protein homolog 1	Methyltransferase binding	Regulation of transcription
	Chromobox protein homolog 5	Deacetylase binding	Regulation of transcription