

Table S6. Enriched functional annotation of different modification types

	Acetylation	Glycosylation	Methylation	Phosphorylation	Sumoylation	Ubiquitination
Cellular Component	mitochondrion; cytosol; ribosome;...	integral to membrane; extracellular region; plasma membrane;...	mitochondrial matrix; spliceosome; nucleoplasm;...	nucleus; cytoplasm; membrane;...	nucleus; cytoplasm; intracellular;...	cytoplasm; membrane; integral to membrane;...
Biological Process	transport; translation; oxidation reduction;...	cell adhesion; proteolysis; immune response signal;...	RNA splicing; nucleosome assembly; translation;...	regulation of transcription; transcription; protein phosphorylation;...	regulation of transcription; transcription; signal transduction;...	nucleosome assembly; transcription; DNA repair;...
Molecular Function	RNA binding; oxidoreductase activity; structural constituent of ribosome;...	receptor activity; calcium ion binding; peptidase activity;...	nucleotide binding; RNA binding; DNA binding;...	protein binding; nucleotide binding; ATP binding;...	protein binding; transcription factor activity; DNA binding;..	DNA binding; transport; catalytic activity;...
KEGG pathway	Ribosome; Oxidative phosphorylation; Glycolysis/Gluconeogenesis;...	Complement and coagulation cascades; Cytokine-cytokine receptor interaction;...	Tight junction; Regulation of actin cytoskeleton; Ribosome;...	MAPK signaling pathway; Regulation of actin cytoskeleton;...	Chronic myeloid leukemia; MAPK signaling pathway;...	Ribosome; Adipocytokine signaling pathway;...
Functional domain	Histone; Globin; Cytochrom_C;...	Kazal_2,Kazal_1; ig Trypsin;...	Histone; RRM_1; Cytochrom_C;...	Pkinase; Pkinase_Tyr; RRM_1;...	HLH; Hormone_recep; zf-C2H2;...	Histone; ubiquitin; MFS_1;...