Transcriptional regulation of white adipocyte differentiation IKK complex recruitment mediated by RIP1 Transcriptional regulation of white adipocyte differentiation Circadian Clock TP53 regulates transcription of several additional cell death SUMO E3 ligases SUMOylate genes whose target proteins specific roles in p53-dependent SUMOylation of apoptosis remain SUMOylation chromatin organization **Cell Cycle Checkpoints** uncertain SUMOylation of DNA damage proteins response and repair proteins Cell Cycle SUMOylation of Cell Cycle, DNA replication Mitotic proteins Activation of RHO GTPases ATR in Activate Formins response to replication stress TFAP2A acts transcriptional repressor during retinoic acid induced cell differentiation G2/M DNA

Post-translational protein modification

Status

replication checkpoint

- Activated
- Inhibited