Nucleotide Excision Repair

Processing of Capped Intron-Containing Pre-mRNA

mRNA Splicing

Class I MHC mediated antigen processing & presentation mRNA Splicing – Major Pathway

Antigen processing: Ubiquitination & Proteasome degradation

Regulation of TP53 Activity

Signaling by Receptor Tyrosine Kinases

Transcriptional Regulation by TP53 Death Receptor Signalling

Diseases of signal transduction

Golgi-to-ER retrograde transport

Beta-catenin independent WNT signaling

Mitotic G1-G1/S phases

DNA Replication

Signaling by Hedgehog

S Phase

Mitotic Anaphase **G1/S Transition**

Mitotic G2-G2/M phases

G2/M Transition Mitotic Metaphase and Anaphase

Mitochondrial translation

Separation of Sister Chromatids

Mitotic Prometaphase

P adjusted

 1.0×10^{-5}

 1.5×10^{-5}

Gene count

100

200

300

400

Asparagine N-linked glycosylation

Intra-Golgi and retrograde Golgi-to-ER traffic

Intracellular signaling by second messengers