**Table S6 – Summary of the top 20 upregulated and downregulated KEGG pathways**

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| --- | --- | --- | --- | --- |
| **Category** | **Pathway** | **Direction** | **FDR** | **Counts** |
| Translation | Ribosome | UP | 1.57 x 10-25 | 37 |
| Human disease (infectious) | Coronavirus disease – COVID-19 | Up | 8.70 x 10-15 | 32 |
| Shigellosis | Down | 2.47 x 10-2 | 17 |
| Immune system | NOD-like receptor signalling pathway | Down | 1.27 x 10-2 | 16 |
| TNF signalling pathway | Down | 1.27 x 10-2 | 12 |
| Fc gamma R-mediated phagocytosis | Down | 2.46 x 10-2 | 10 |
| Leukocyte transendothelial migration | Down | 3.92 x 10-2 | 10 |
| Cellular structure | Regulation of actin cytoskeleton | Down | 1.78 x 10-2 | 17 |
| Focal adhesion | Down | 2.47 x 10-2 | 15 |
| Human disease (endocrine) | Type II diabetes mellitus | Down | 2.24 x 10-2 | 7 |
| Endocrine system | Growth hormone synthesis, secretion, and action | Down | 2.47 x 10-2 | 11 |
| Insulin signalling pathway | Down | 4.10 x 10-2 | 11 |
| Cell Cycle | Necroptosis | Down | 2.47 x 10-2 | 13 |
| Apoptosis | Down | 4.19 x 10-2 | 11 |
| Human disease (cancer) | Proteoglycans in cancer | Down | 2.47 x 10-2 | 15 |
| Non-small cell lung cancer | Down | 2.72 x 10-2 | 8 |
| Nervous system | Neurotrophin signalling pathway | Down | 4.33 x 10-2 | 10 |