**Supplemental Table 5. Summary of enrichment analysis in COVID.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| GO | Description | Count | % | Log10(P) | Log10(q) |
| [COVID017](https://metascape.org/COVID#200_COVID017) | RNA\_Blanco-Melo\_Lung\_Down | 40 | 36.00 | -52.00 | -48.00 |
| [COVID016](https://metascape.org/COVID#200_COVID016) | RNA\_Blanco-Melo\_Calu-3\_Up | 16 | 14.00 | -13.00 | -9.60 |
| [COVID018](https://metascape.org/COVID#200_COVID018) | RNA\_Blanco-Melo\_Lung\_Up | 10 | 8.90 | -12.00 | -8.50 |
| [COVID020](https://metascape.org/COVID#200_COVID020) | RNA\_Blanco-Melo\_NHBE\_Up | 10 | 8.90 | -12.00 | -8.40 |
| [COVID203](https://metascape.org/COVID#200_COVID203) | RNA\_Vanderheiden\_pHAE\_48h\_Up | 11 | 9.80 | -10.00 | -7.40 |
| [COVID032](https://metascape.org/COVID#200_COVID032) | RNA\_Liao\_BALF-severe\_Up | 13 | 12.00 | -9.60 | -6.70 |
| [COVID356](https://metascape.org/COVID#200_COVID356) | RNA\_Zhang\_NK-cells\_severe-and-moderate\_Up | 8 | 7.10 | -8.40 | -5.60 |
| [COVID191](https://metascape.org/COVID#200_COVID191) | RNA\_Stukalov\_A549-ACE2\_24h\_Up | 8 | 7.10 | -8.20 | -5.50 |
| [COVID244](https://metascape.org/COVID#200_COVID244) | RNA\_Wilk\_CD14+Monocytes\_patient-C1A-mild\_Up | 7 | 6.20 | -7.50 | -4.90 |
| [COVID050](https://metascape.org/COVID#200_COVID050) | RNA\_Wyler\_Calu-3\_24h\_Up | 11 | 9.80 | -7.50 | -4.90 |
| [COVID243](https://metascape.org/COVID#200_COVID243) | RNA\_Riva\_Vero-E6\_24h\_Up | 11 | 9.80 | -7.50 | -4.90 |
| [COVID359](https://metascape.org/COVID#200_COVID359) | RNA\_Zhang\_T-cells\_severe-and-moderate\_Up | 8 | 7.10 | -7.10 | -4.50 |
| [COVID256](https://metascape.org/COVID#200_COVID256) | RNA\_Wilk\_CD14+Monocytes\_patient-C6\_Up | 8 | 7.10 | -6.70 | -4.30 |
| [COVID189](https://metascape.org/COVID#200_COVID189) | RNA\_Stukalov\_A549-ACE2\_18h\_Up | 6 | 5.40 | -6.60 | -4.20 |
| [COVID347](https://metascape.org/COVID#200_COVID347) | RNA\_Wilk\_B-cells\_patient-C6\_Up | 7 | 6.20 | -6.50 | -4.10 |
| [COVID034](https://metascape.org/COVID#200_COVID034) | RNA\_Liao\_BALF-severe-vs-mild\_Up | 10 | 8.90 | -6.50 | -4.10 |
| [COVID193](https://metascape.org/COVID#200_COVID193) | RNA\_Stukalov\_A549-ACE2\_30h\_Up | 10 | 8.90 | -6.50 | -4.10 |
| [COVID353](https://metascape.org/COVID#200_COVID353) | RNA\_Zhang\_Monocytes\_severe-and-moderate\_Up | 7 | 6.20 | -6.10 | -3.80 |
| [COVID245](https://metascape.org/COVID#200_COVID245) | RNA\_Wilk\_CD14+Monocytes\_patient-C1A-mild\_Down | 5 | 4.50 | -5.60 | -3.40 |
| [COVID006](https://metascape.org/COVID#200_COVID006) | RNA\_Appelberg\_Huh-7\_72h\_Up | 9 | 8.00 | -5.50 | -3.30 |