**Supplementary Table 4**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Category** | **n** | **Cytokine** | **Estimate** | **Lower 0.025** | **Upper 0.025** | **p-value** | **q-value** |
| Key Pinch BL-6M | 22 | MIP-1b | 0.025 | 0.006 | 0.044 | 0.012409039 | 0.33504406 |
|  | 21 | IL-17A | 0.177 | 0.005 | 0.349 | 0.044540588 | 0.4993301 |
|  | 22 | MIP-1a | 1.005 | -0.027 | 2.036 | 0.055481122 | 0.4993301 |
|  | 22 | PDGF-BB | 0.002 | 0 | 0.004 | 0.093075764 | 0.5881243 |
|  | 22 | bFGF | 0.046 | -0.016 | 0.108 | 0.133439514 | 0.5881243 |
|  | 22 | IL-1RA | 0.006 | -0.002 | 0.014 | 0.138237789 | 0.5881243 |
| Key Pinch BL-1Y | 17 | bFGF | 0.084 | 0.035 | 0.132 | 0.002636904 | **0.06016334** |
|  | 17 | IL-2 | 0.662 | 0.249 | 1.076 | 0.004456544 | **0.06016334** |
|  | 17 | MIP-1a | 1.72 | 0.563 | 2.877 | 0.007099557 | **0.06389601** |
|  | 17 | IL-8 | 0.356 | 0.015 | 0.698 | 0.04195742 | 0.28036479 |
|  | 17 | IL-12p70 | 0.686 | -0.007 | 1.378 | 0.051919405 | 0.28036479 |
|  | 16 | MIP-1b | 0.02 | -0.002 | 0.041 | 0.067121871 | 0.28540946 |
| Grip Strength BL-6M | 22 | MIP-1b | 0.133 | 0.052 | 0.213 | 0.003022443 | **0.08160597** |
|  | 22 | MIP-1a | 6.234 | 2.031 | 10.437 | 0.006270464 | **0.08465126** |
|  | 22 | IL-12p70 | 2.613 | 0.68 | 4.547 | 0.01122991 | 0.10106919 |
|  | 22 | PDGF-BB | 0.012 | 0.002 | 0.021 | 0.017076762 | 0.11526814 |
|  | 22 | IL-1RA | 0.038 | 0.003 | 0.073 | 0.03392505 | 0.12365234 |
|  | 22 | IL-2 | 1.468 | 0.126 | 2.81 | 0.033928835 | 0.12365234 |
| Grip Strength BL-1Y | 17 | IL-2 | 2.81 | 0.353 | 5.267 | 0.02836027 | 0.35408544 |
|  | 17 | bFGF | 0.325 | 0.017 | 0.632 | 0.040117651 | 0.35408544 |
|  | 17 | MIP-1a | 6.905 | -0.015 | 13.826 | 0.05043385 | 0.35408544 |
|  | 17 | IL-12p70 | 3.53 | -0.044 | 7.104 | 0.052457102 | 0.35408544 |
|  | 17 | IL-17A | 0.67 | -0.192 | 1.531 | 0.116251688 | 0.62775912 |
|  | 16 | VEGF | -0.014 | -0.035 | 0.008 | 0.183769403 | 0.64942924 |