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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **HIV/DET** | | **HIV/UND** | | **CONTROL** | | **HIV/DET** | | **HIV/UND** | | **CONTROL** | |
| **Cytokines** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** |
| ITAC | 0.140 | 0.667 | -0.067 | 0.791 | 0.037 | 0.845 | -0.664 | **0.031** | 0.276 | 0.360 | 0.047 | 0.803 |
| GM-CSF | -0.266 | 0.404 | -0.033 | 0.896 | 0.065 | 0.733 | -0.600 | 0.056 | -0.239 | 0.428 | 0.240 | 0.202 |
| Fractalkine | 0.238 | 0.457 | -0.055 | 0.829 | -0.212 | 0.260 | -0.409 | 0.214 | -0.005 | 0.993 | -0.375 | **0.041** |
| IFN gamma | -0.294 | 0.355 | -0.092 | 0.717 | 0.048 | 0.803 | -0.791 | **0.005** | -0.129 | 0.672 | 0.157 | 0.408 |
| IL-10 | -0.406 | 0.193 | -0.137 | 0.587 | 0.025 | 0.897 | -0.791 | **0.005** | -0.192 | 0.529 | 0.119 | 0.533 |
| MIP3 alpha | 0.175 | 0.588 | 0.375 | 0.125 | 0.035 | 0.853 | -0.427 | 0.193 | 0.269 | 0.373 | 0.067 | 0.727 |
| IL-12 | -0.056 | 0.864 | -0.419 | 0.083 | -0.244 | 0.194 | -0.936 | **<0.001** | -0.381 | 0.199 | -0.329 | 0.076 |
| IL-13 | -0.301 | 0.338 | -0.112 | 0.659 | 0.043 | 0.820 | -0.651 | **0.034** | -0.096 | 0.754 | 0.177 | 0.350 |
| IL-17A | -0.417 | 0.178 | 0.013 | 0.958 | -0.133 | 0.485 | -0.501 | 0.119 | -0.187 | 0.541 | 0.014 | 0.942 |
| IL-1 beta | -0.518 | 0.087 | -0.428 | 0.076 | 0.040 | 0.833 | -0.533 | 0.095 | -0.536 | 0.063 | 0.085 | 0.656 |
| IL-2 | 0.035 | 0.921 | 0.018 | 0.943 | 0.054 | 0.775 | -0.736 | **0.013** | 0.196 | 0.517 | -0.033 | 0.862 |
| IL-21 | -0.329 | 0.297 | -0.081 | 0.749 | -0.302 | 0.105 | -0.791 | **0.005** | -0.148 | 0.630 | -0.364 | **0.048** |
| IL-4 | -0.148 | 0.649 | -0.119 | 0.637 | -0.106 | 0.578 | -0.734 | **0.013** | 0.168 | 0.581 | -0.188 | 0.320 |
| IL-23 | -0.301 | 0.342 | -0.285 | 0.252 | -0.344 | 0.063 | -0.773 | **0.007** | -0.214 | 0.482 | -0.436 | **0.016** |
| IL-5 | -0.364 | 0.246 | -0.165 | 0.512 | 0.217 | 0.250 | -0.673 | **0.028** | 0.016 | 0.964 | 0.343 | 0.064 |
| IL-6 | -0.371 | 0.237 | -0.307 | 0.216 | -0.110 | 0.561 | -0.491 | 0.129 | -0.421 | 0.153 | -0.093 | 0.624 |
| IL-7 | 0.070 | 0.835 | 0.188 | 0.455 | -0.085 | 0.654 | -0.518 | 0.107 | 0.242 | 0.426 | -0.199 | 0.292 |
| IL-8 | -0.091 | 0.783 | -0.256 | 0.305 | 0.194 | 0.304 | -0.509 | 0.114 | -0.470 | 0.107 | 0.030 | 0.875 |
| MIP-1 alpha | -0.203 | 0.528 | -0.191 | 0.448 | 0.041 | 0.828 | -0.600 | 0.056 | 0.000 | 0.007 | 0.160 | 0.397 |
| MIP-1 beta | -0.035 | 0.921 | 0.031 | 0.903 | 0.150 | 0.429 | -0.709 | **0.018** | 0.033 | 0.920 | 0.251 | 0.181 |
| TNF alpha | 0.007 | 0.987 | 0.001 | 0.997 | -0.166 | 0.382 | -0.834 | **0.002** | -0.005 | 0.993 | -0.073 | 0.701 |
| **\***Spearman´s rank correlation | | | | | | | | | | | | |

**Supplemental digital content 7.** Correlation between cytokine levels and PD-1 expression in naïve CD4+ T and CD8+ T cells of HIV-infected patients with detectable viral load (HIV/DET), undetectable viral load (HIV/UND) and CONTROLgroups