**Supplemental digital content 8.** Correlation between cytokine levels and PD-1 expression in central memory CD4+ T and CD8+ T cells of HIV-infected patients with detectable viral load (HIV/DET), undetectable viral load (HIV/UND) and CONTROL groups

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CENTRAL MEMORY CD4+ T cells\*** | | | | | | **CENTRAL MEMORY CD8+ T cells\*** | | | | | |
| **HIV/DET** | | **HIV/UND** | | **CONTROL** | | **HIV/DET** | | **HIV/UND** | | **CONTROL** | |
| **Cytokines** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** | **r** | **p** |
| ITAC | -0.294 | 0.355 | 0.138 | 0.586 | 0.046 | 0.809 | -0.736 | **0.013** | -0.249 | 0.412 | -0.118 | 0.534 |
| GM-CSF | -0.385 | 0.218 | 0.286 | 0.249 | 0.177 | 0.348 | -0.518 | 0.107 | -0.608 | **0.031** | 0.149 | 0.432 |
| Fractalkine | -0.182 | 0.573 | -0.015 | 0.951 | -0.268 | 0.152 | -0.709 | **0.018** | -0.181 | 0.554 | -0.347 | 0.060 |
| IFN gamma | -0.517 | 0.089 | 0.183 | 0.467 | 0.124 | 0.515 | -0.673 | **0.028** | -0.575 | **0.043** | 0.049 | 0.797 |
| IL-10 | -0.601 | **0.043** | 0.159 | 0.528 | -0.109 | 0.565 | -0.609 | 0.052 | -0.615 | **0.028** | -0.213 | 0.260 |
| MIP3 alpha | -0.168 | 0.604 | 0.196 | 0.435 | 0.328 | 0.077 | -0.645 | **0.037** | -0.253 | 0.404 | 0.049 | 0.796 |
| IL-12 | -0.537 | 0.075 | 0.112 | 0.659 | -0.205 | 0.278 | -0.858 | **0.001** | -0.586 | **0.039** | -0.266 | 0.155 |
| IL-13 | -0.396 | 0.202 | 0.242 | 0.333 | 0.179 | 0.343 | -0.506 | 0.115 | -0.536 | 0.062 | -0.198 | 0.294 |
| IL-17A | -0.382 | 0.220 | 0.173 | 0.494 | 0.047 | 0.807 | -0.538 | 0.091 | -0.654 | **0.018** | -0.150 | 0.430 |
| IL-1 beta | -0.662 | **0.022** | -0.078 | 0.759 | -0.010 | 0.956 | -0.569 | 0.072 | -0.746 | **0.005** | -0.282 | 0.132 |
| IL-2 | -0.608 | **0.040** | 0.286 | 0.249 | -0.026 | 0.891 | -0.927 | **<0.001** | -0.179 | 0.554 | 0.078 | 0.681 |
| IL-21 | -0.853 | **0.001** | 0.454 | 0.059 | -0.279 | 0.136 | -0.691 | **0.023** | -0.253 | 0.404 | -0.309 | 0.097 |
| IL-4 | -0.556 | 0.064 | 0.268 | 0.281 | 0.036 | 0.852 | -0.560 | 0.078 | -0.316 | 0.290 | 0.068 | 0.721 |
| IL-23 | -0.748 | **0.007** | 0.135 | 0.592 | -0.247 | 0.188 | -0.827 | **0.003** | -0.665 | **0.016** | -0.017 | 0.930 |
| IL-5 | -0.434 | 0.162 | 0.179 | 0.478 | 0.263 | 0.160 | -0.636 | **0.040** | -0.495 | 0.089 | -0.158 | 0.403 |
| IL-6 | -0.601 | **0.043** | 0.102 | 0.686 | 0.047 | 0.807 | -0.609 | 0.052 | -0.624 | **0.025** | -0.300 | 0.107 |
| IL-7 | -0.476 | 0.121 | 0.216 | 0.390 | -0.065 | 0.731 | -0.800 | **0.005** | -0.176 | 0.566 | -0.002 | 0.990 |
| IL-8 | -0.608 | **0.040** | -0.020 | 0.938 | 0.133 | 0.482 | -0.745 | **0.011** | -0.569 | **0.045** | 0.176 | 0.351 |
| MIP-1 alpha | -0.329 | 0.297 | 0.208 | 0.408 | 0.067 | 0.723 | -0.500 | 0.122 | -0.467 | 0.110 | 0.016 | 0.934 |
| MIP-1 beta | -0.371 | 0.237 | 0.332 | 0.179 | 0.114 | 0.547 | -0.700 | **0.020** | -0.429 | 0.146 | -0.179 | 0.344 |
| TNF alpha | -0.473 | 0.122 | 0.312 | 0.208 | -0.045 | 0.813 | -0.761 | **0.009** | -0.341 | 0.255 | 0.147 | 0.438 |
| **\***Spearman´s rank correlation | | | | | | | | | | | | |