

SUPPLEMENTAL MATERIAL

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LIST OF INVESTIGATORS

Clinical Trial Site: The Ohio State University Wexner Medical Center 410 W. Tenth Ave, Columbus OH 43210

Clinical Laboratory Facility: OSUCCC Pelotonia Institute for Immuno-Oncology, 460 W. 12th Ave Room 580 Biomedical Research Tower, Columbus OH 43210

Clinical Investigators: Carlos Diego Malvestutto, M.D. M.P.H; Zeinab El Boghdadly, M.D.; Mohammad Mahdee Sobhanie, M.D.; Jose Bazan, D.O.; Mark Lustberg, M.D. Ph.D.; Susan Koletar, M.D.; Zihai Li, M.D. Ph.D.; Kelsi Reynolds; Karthik Chakravathy

Complete list of contributors (alphabetical): Carter Allen^{1,3,4}, Jose Bazan², Chelsea Bolyard³, Zeinab El Boghdadly², Donna Bucci³, Karthik B. Chakravarthy^{3,11}, Yuzhou Chang^{1,3,4}, Dongjun Chung^{3,4}, Martin Devenport¹³, John P. Evans¹², Manuja Gunasena^{8,9}, Aastha Khatiwada⁵, Susan Koletar², Amrendra Kumar^{6,10}, Anqi Li^{1,3,11}, Zihai Li^{2,3}, Shan-Lu Liu¹², Yang Liu¹³, Namal P. M. Liyanage^{8,9}, Mark Lustberg², Anjun Ma⁴, Qin Ma⁴, Carlos D. Malvestutto², Kelsi Reynolds³, Brian P. Riesenber³, Mohammad Mahdee Sobhanie², No-Joon Song³, Zequn Sun⁵, Maria Velegraki³, Anna E. Vilgelm^{3,6,10}, Kevin P. Weller³, Menglin Xu², Mohamed Yusuf⁶, Cong Zeng¹², Pan Zheng¹³.

Affiliations:

¹The Ohio State University, Columbus, OH 43210, USA

²Department of Internal Medicine, The Ohio State University College of Medicine, Columbus, OH

³The Pelotonia Institute for Immuno-Oncology, The Ohio State University Comprehensive Cancer Center, Columbus, OH 43210, USA

⁴Department of Biomedical Informatics, The Ohio State University College of Medicine, Columbus, OH

⁵Department of Public Health Sciences, Medical University of South Carolina, Charleston, SC

⁶The Ohio State University Comprehensive Cancer Center, Columbus, OH 43210, USA

⁷Department of Microbiology, The Ohio State University College of Arts and Sciences, Columbus, OH 43210, USA

⁸Department of Microbial Infection and Immunity, The Ohio State University College of Medicine, Columbus, OH 43210, USA

⁹Department of Veterinary Biosciences, The Ohio State University College of Veterinary Medicine, Columbus, OH 43210, USA

¹⁰Department of Pathology, The Ohio State University College of Medicine, Columbus, OH

¹¹The Ohio State University College of Medicine, Columbus, OH 43210, USA

¹²Center for Retrovirus Research and Department of Veterinary Biosciences, The Ohio State University, Columbus, OH 43210, USA

¹³OncoC4, Rockville, MD, USA

Author contributions are as follows (alphabetically):

Study conception and design: D Bucci, M Devenport, Z Li, SL Liu, Y Liu, C Malvestutto, NJ Song, P Zeng

Acquisition of data: D Bucci, K Chakravarthy, JP Evans, M Gunasena, A Kumar, A Li, N Liyanage, C Malvestutto, K Reynolds, BP Riesenber, NJ Song, M Velegraki, AE Vilgelm, K Weller, M Yusuf

Analysis and interpretation of data: C Allen, Y Chang, D Chung, JP Evans, K Chakravarthy, A Khatiwada, A Kumar, A Li, Z Li, SL Liu, N Liyanage, A Ma, Q Ma, BP Riesenber, NJ Song, Z Sun, M Velegraki, AE Vilgelm, K Weller, M Xu, C Zeng

Drafting of manuscript: C Allen, C Bolyard, K Chakravarthy, D Chung, A Kumar, Z Li, SL Liu, N Liyanage, Q Ma, C Malvestutto, BP Riesenber, NJ Song, AE Vilgelm, K Weller

Critical revision: C Allen, C Bolyard, D Chung, Z Li, SL Liu, BP Riesenber, NJ Song

Other: Z Li, overall supervision of study activities; AE Vilgelm, acquisition of funding and supervision of cytokine studies; M Devenport, Y Liu, P Zheng for clinical study.

SUPPLEMENTARY METHODS

PATIENTS AND TRIAL PROCEDURE. This study included samples from patients enrolled in NCT04317040 at The Ohio State University Wexner Medical Center. Patients eligible for this trial were hospitalized with COVID-19, requiring supplemental oxygen but not mechanical ventilation, and had a prior positive SARS-CoV-2 PCR test. Enrolled patients were randomized in a double-blinded fashion by the hospital pharmacist to receive either a single dose of CD24Fc antibody (480mg IV infusion) or placebo control (IV saline). Peripheral blood samples were collected from patients prior to drug infusion (D1), and at subsequent time points 1, 3, 7, 14, and 28 days after drug infusion (D2, D4, D8, D15, and D29). Patients were monitored until D29, after which they completed the study endpoint. Pertinent patient clinical information was abstracted from the internal electronic medical record database including demographic data, medical history, clinical laboratory findings, and treatment regimen for COVID-19 during hospital stay (**Table S1**). All enrolled patients were able to complete the study endpoint with no demises in either group. After enrollment and completion of the study period, two patients were excluded from analysis. One exclusion was due to a diagnosis of chronic lymphocytic leukemia (CLL) which confounded the subsequent immunological analyses. Another exclusion occurred with a patient who received an infusion but was discharged before any post-infusion peripheral blood sample could be collected; hence no comparative analysis could be made using this patient. Written or witnessed oral informed consent was obtained for each patient. This trial and protocol were approved by Western Institutional Review Board. The study was monitored continuously by a clinical monitor and a medical monitor from the contract research organization (CRO) who also generated safety reports submitted to an independent Data and Safety Monitoring Board (DSMB). Data quality control checks were performed and medical monitor verified that the clinical trial was conducted and data was generated in compliance with protocol, International Conference on Harmonization Good Clinical Practice (ICH GCP) and all applicable regulatory requirements.

Patient characteristics were clinically matched between the two groups. All patients enrolled in the study received a treatment regimen for COVID-19 by hospital care teams regardless of their placebo/CD24Fc treatment status. Patients were randomized in a double-blind fashion into CD24Fc antibody treatment group (n=10) or placebo control group (n=12).

PBMC COLLECTION AND FLOW CYTOMETRY STAINING. Samples for this study were collected from patients enrolled in clinical trial NCT04317040. We analyzed samples from 22 patients hospitalized at The Ohio State University Wexner Medical Center with severe COVID-19. Peripheral blood mononuclear cells (PBMCs) were isolated per manufacturer's protocol using CPT tubes (BD Bioscience). Healthy donor (HD) PMBCs were obtained from STEMCELL Technologies™. We utilized a 36-color flow cytometry panel (**Table S2**, developed by Cytek¹) to distinguish immune populations; we developed a 25-color panel (**Table S2**) to study activation status of CD8⁺, CD4⁺, and CD56⁺ subsets. For the 25-color panel, surface markers were stained in 4°C for 1h and FOXP3/Transcription Factor Staining Buffer Set (eBioscience™) was used per manufacturers recommendation to perform intracellular staining. Cells were analyzed using the Cytek Aurora system.

VIRUS NEUTRALIZATION ASSAY. Virus was produced as previously described², and incubated with COVID-19 patient sera for 1h at 37°C. Virus was then overlaid onto ACE2-expressing 293T cells for 6h. Gluc activity was measured 24, 48, and 72 hours after infection.

CYTOKINE AND CHEMOKINE ASSAY. Plasma samples were processed using multiplexed ELISA-based platform Quantibody® Human Inflammation Array 3 (RayBiotech QAH-INF-3) in accordance with manufacturer's protocol. Slides were shipped to manufacturer site for scanning and data extraction services. Raw optical data were analyzed using manufacturer's analysis tool to construct standard curves and determine absolute cytokine concentrations. Cytokines for which standards did not yield good standard curve fit or that were undetectable were excluded (IFN γ , IL1 α , IL2, IL13, MCP-1, TNF α , TNF β , IL-11, IL-12p70, IL-17A). Seven of these cytokines were detected using an alternative method. Specifically, cytokines IFN γ , IL1 α , IL2, IL13, MCP-1, TNF α , and IL-12p70 were measured by Luminex analysis. For that, plasma samples were sent to EVE Technologies that performed the assay and provided cytokine concentration data (**Table S6**).

FLOW CYTOMETRY DATA ANALYSIS. We integrated flow cytometry marker data from all samples and arcsinh scaling was applied using OMIQ (<https://www.omiq.ai/>). Then, we visualized cells in a reduced two-dimensional space using the UMAP algorithm implemented in the R package uwot³. We adopted a multivariate t-mixture model to cluster cells based on the normalized multivariate flow cytometry marker expression⁴. For each data set, we chose

the optimal number of cell clusters by selecting the model with the minimum Bayesian information criterion (BIC) score⁵. Then, we annotated cell types by visually investigating heatmaps of median marker expressions across clusters and expressions of these markers on the UMAP space.

IMMUNE CELL ACTIVATION SCORE CONSTRUCTION. To measure activation, we defined a cell-level immune cell activation score for each flow cytometry data set. We selected a subset of immune cell activation markers from the panel^{6,7}, and ran a principal component analysis (PCA) comparing cells from HD and baseline (Day 1) COVID patients, using these activation markers as features. We used the first principal component (PC1) as an activation score to reflect the differences in immune cell activation between groups. The loadings of each pre-selected activation marker onto PC1 were used as coefficients to compute an activation score for COVID-19 patients after baseline.

CYTOKINE SCORE CONSTRUCTION. To construct the cytokine score, we implemented a weighted sum approach, motivated by the polygenic risk score calculation in the genome-wide association study (GWAS). First, we fit a generalized linear mixed model (GLMM) of each cytokine measurement (base 10 log-transformed) on treatment, time, treatment*time, age, sex, and race as fixed-effect terms, along with subject-level random effect terms. Second, the *p*-value for evaluating the overall difference in trends between CD24Fc and placebo groups across all the time points was calculated using the Kenward-Roger method⁸. Finally, we obtained the weighted sum of cytokine measurements using the -2 log transformed *p*-value for the trend difference as weights, motivated by the Fisher's method. We validated the above approach using the PCA and autoencoder approaches⁹.

NETWORK-LEVEL ANALYSIS OF CYTOKINE DATA. We first calculated Pearson correlation coefficients between cytokines (base 10 log-transformed). Then, we constructed a network, where a node represents a cytokine and an edge between two nodes was built if the corresponding absolute correlation coefficient is larger than 0.4, a cutoff that is usually considered to be moderate correlation¹⁰. The weight of an edge represents the corresponding correlation coefficient. A network was built via the MetScape¹¹ (version 3.1.3) application in Cytoscape¹² (version 3.8.0). We evaluated the network structure and the importance of each node in the network based on an eigenvector centrality (EC) score¹³ using the CytoNCA¹⁴ (version 2.1.6) application in Cytoscape (version 3.8.0). Nodes with larger EC scores can be considered of higher importance.

STATISTICAL ANALYSIS. All data were analyzed using the R statistical package. Group comparisons were evaluated using independent sample t-test or Kruskal-Wallis test for continuous variables, and Chi-squared test for categorical variables. In the longitudinal analyses, the overall differences in trends between CD24Fc and placebo groups across all the time points were evaluated using a GLMM of each measurement on treatment, time, treatment*time, age, sex, and race as fixed-effect terms, along with patient-level random intercepts. All mixed models were fit using the lme4 package¹⁵. The *p*-value for evaluating the overall difference in trends between CD24Fc and placebo groups across all the time points was calculated using the Kenward-Roger method⁸. The observed values and trend lines are centered at the baseline.

TREATMENT GROUP DETERMINATION. The treatment group (control vs. CD24Fc) was determined by the post-infusion sera to absorb anti-CD24 antibody for staining of human CD24⁺ cells by flow cytometry. Patient group on the CD24Fc arm was further confirmed using CD24Fc ELISA (capture antibody: purified anti-human CD24, Clone ML5, BD bioscience, Cat#555426. San Jose, CA).

REFERENCES

1. Park LM, Lannigan J, Jaimes MC. OMIP-069: Forty-Color Full Spectrum Flow Cytometry Panel for Deep Immunophenotyping of Major Cell Subsets in Human Peripheral Blood. *Cytometry A* 2020; **97**(10): 1044-51.
2. Zeng C, Evans JP, Pearson R, et al. Neutralizing antibody against SARS-CoV-2 spike in COVID-19 patients, health care workers, and convalescent plasma donors. *JCI Insight* 2020; **5**(22).
3. McInnes L, Healy J, Melville J. UMAP: Uniform Manifold Approximation and Projection for Dimension Reduction. *arXiv preprint arXiv:180203426v3 [statML]* 2020.
4. Lo K, Brinkman RR, Gottardo R. Automated gating of flow cytometry data via robust model-based clustering. *Cytometry A* 2008; **73**(4): 321-32.
5. Schwarz G. Estimating the Dimension of a Model. *The Annals of Statistics* 1978; **6**(2): 461-4, 4.
6. Scott AC, Dundar F, Zumbo P, et al. TOX is a critical regulator of tumour-specific T cell differentiation. *Nature* 2019; **571**(7764): 270-4.
7. Kallies A, Good-Jacobson KL. Transcription Factor T-bet Orchestrates Lineage Development and Function in the Immune System. *Trends Immunol* 2017; **38**(4): 287-97.
8. Kenward MG, Roger JH. Small sample inference for fixed effects from restricted maximum likelihood. *Biometrics* 1997; **53**(3): 983-97.
9. Liou C-Y, Cheng W-C, Liou J-W, Liou D-R. Autoencoder for words. *Neurocomputing* 2014; **139**: 84-96.
10. Schober P, Boer C, Schwarte LA. Correlation Coefficients: Appropriate Use and Interpretation. *Anesth Analg* 2018; **126**(5): 1763-8.
11. Gao J, Tarcea VG, Karnovsky A, et al. Metscape: a Cytoscape plug-in for visualizing and interpreting metabolomic data in the context of human metabolic networks. *Bioinformatics* 2010; **26**(7): 971-3.
12. Shannon P, Markiel A, Ozier O, et al. Cytoscape: a software environment for integrated models of biomolecular interaction networks. *Genome Res* 2003; **13**(11): 2498-504.
13. Valente TW, Coronges K, Lakon C, Costenbader E. How Correlated Are Network Centrality Measures? *Connect (Tor)* 2008; **28**(1): 16-26.
14. Tang Y, Li M, Wang J, Pan Y, Wu FX. CytoNCA: a cytoscape plugin for centrality analysis and evaluation of protein interaction networks. *Biosystems* 2015; **127**: 67-72.
15. Bates D, Mächler M, Bolker B, Walker S. arXiv preprint. arXiv:14065823. 2014.
16. Lucas C, Wong P, Klein J, et al. Longitudinal analyses reveal immunological misfiring in severe COVID-19. *Nature* 2020; **584**(7821): 463-9.

SUPPLEMENTARY FIGURES

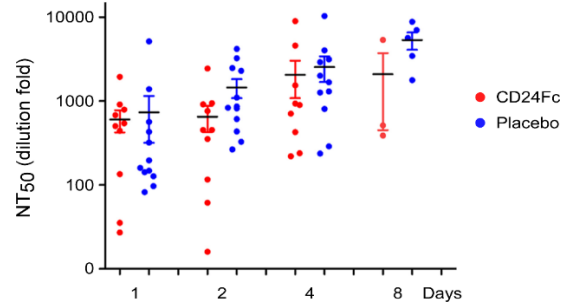


Figure S1. Comparison of neutralizing antibody against SARS-CoV-2 spike in CD24Fc treated patients and placebo group

Using our secreted nano luciferase-bearing pseudotyped lentivirus virus neutralization assay, we assessed the neutralizing antibody (nAb) titers for the CD24Fc treated and placebo groups throughout their treatment period. The average 50% neutralization titer (NT₅₀) for both groups show an increase in antibody titers from day 0 to day 15, but no significant differences were observed when CD24Fc group were compared to placebo group.

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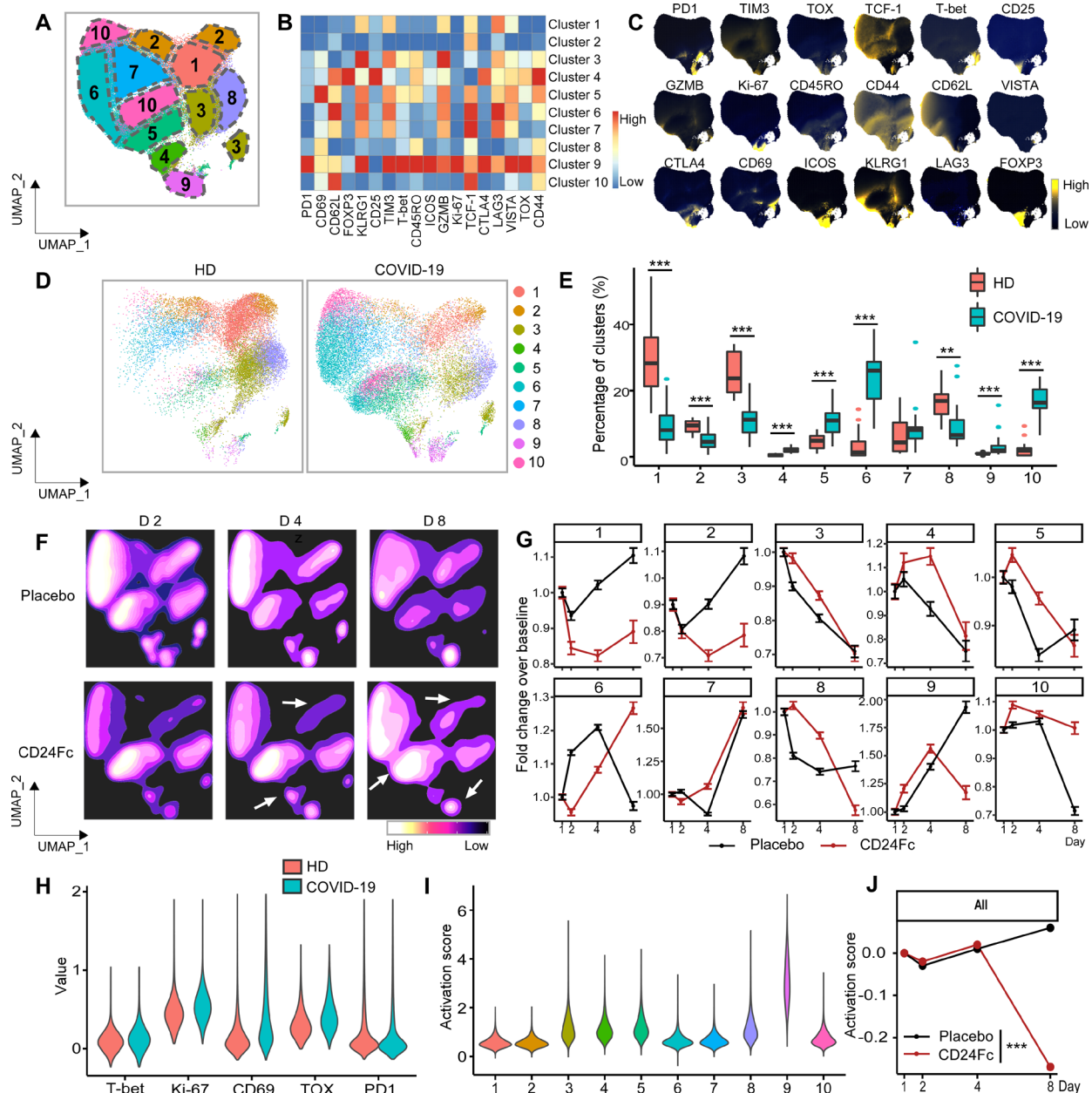


Figure S2. Subcluster analysis of peripheral blood CD4⁺ T cells in COVID-19 patients: activation following SARS-CoV2 infection is dampened by CD24Fc treatment.

We clustered 1,203,034 CD4⁺ cells from HD (n=17) and COVID-19 (n=22) patients using an unbiased multivariate *t*-mixture model, which identified 10 CD4⁺ sub-clusters that reflect statistically distinct cell activation states. We visualized the relative similarity of each cell and cell cluster on the two-dimensional UMAP space with a 10% downsampling (**Panel A**). Using median expression of flow cytometry markers, we generated a cluster-by-marker heatmap to characterize the subsets (**Panel B**) and visualized individual marker expression patterns on the UMAP space (**Panel C**). To understand the effect of SARS-CoV2 infection on cell population dynamics, we compared UMAP dot plots (**Panel D**) and cluster frequencies (**Panel E**) of HD vs. baseline COVID-19 patient samples (cluster 1, $p < 0.001$; cluster 2, $p < 0.001$; cluster 3, $p < 0.001$; cluster 4, $p < 0.001$; cluster 5, $p < 0.001$; cluster 6, $p < 0.001$; cluster 8, $p = 0.002$; cluster 9, $p < 0.001$; cluster 10, $p < 0.001$). We visualized samples from COVID-19 patients D2, 4, and 8 after CD24Fc vs. placebo treatment using contour plots to represent the density of cells throughout regions of the UMAP space (**Panel F**). We describe cluster population dynamics as fold change over baseline in each treatment group (**Panel G**; sample distribution described in **Fig 1F** legend). To better characterize the activation status of CD4 T cells, we linearly transformed a subset of markers (T-bet, Ki-67, CD69, TOX, PD1) to create a univariate cell-level activation

score (**Panel H**), where highly activated cell clusters (such as cluster 9) had highest activation scores (**Panel I**). We then fit a GLMM to our longitudinal cell-level activation scores to assess the effect of CD24Fc treatment on activation scores over time (**Panel J**; $p < 0.001$). The p-value for evaluating the overall difference in trends between CD24Fc and placebo groups across all time points was calculated using the Kenward-Roger method. Using this model, we found that CD24Fc-treated samples had significantly lower CD4⁺ cell activation levels relative to placebo. **, $p < 0.01$; ***, $p < 0.001$.

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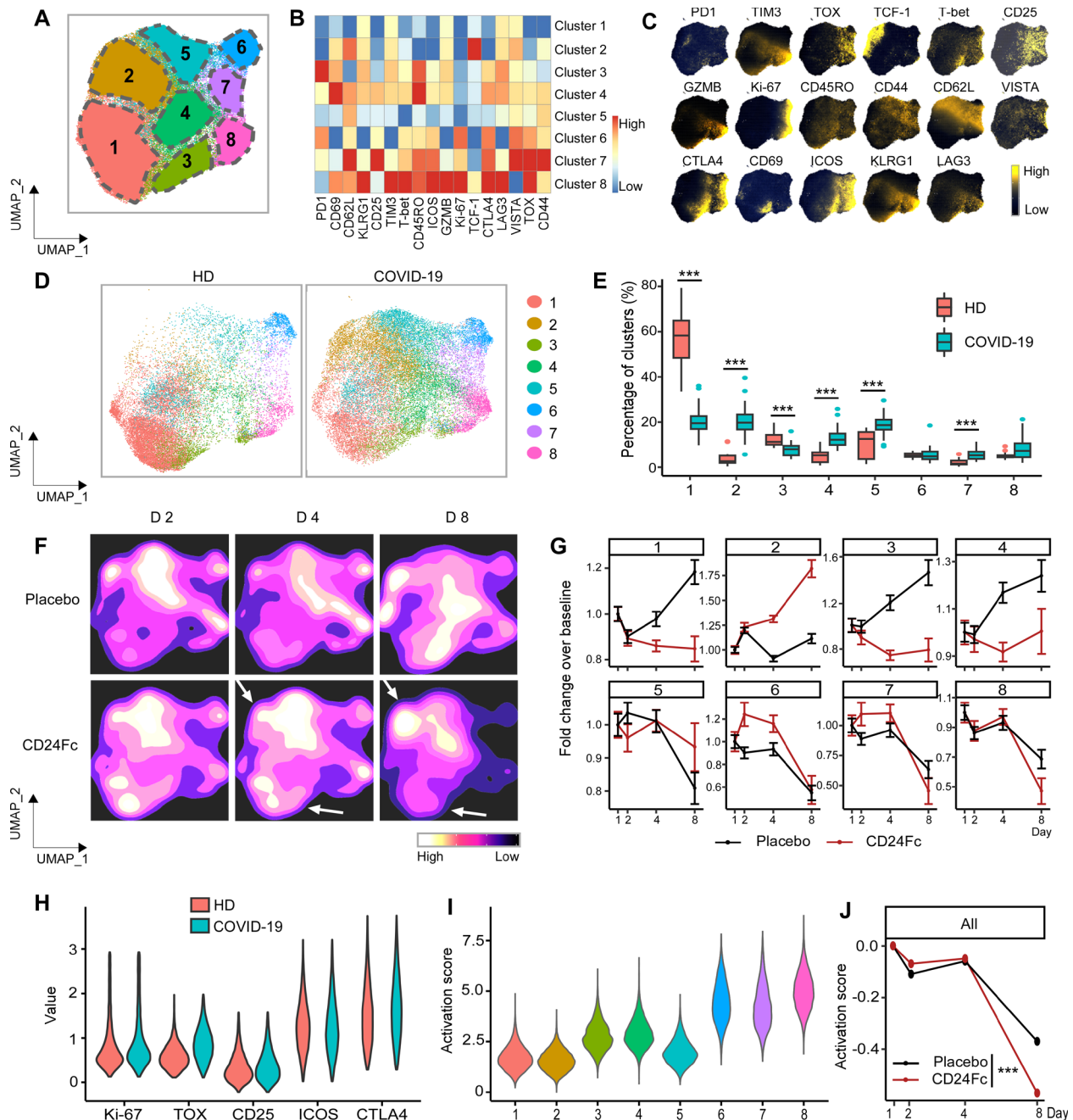


Figure S3. Subcluster analysis of peripheral blood FOXP3⁺ Treg cells in COVID-19 patients: activation following SARS-CoV2 infection is dampened by CD24Fc treatment.

We clustered 98,525 FOXP3⁺ Treg cells from HD (n=17) and COVID-19 (n=22) patients using an unbiased multivariate *t*-mixture model, which identified 8 FOXP3⁺ Treg sub-clusters that reflect statistically distinct cell activation states. We visualized the relative similarity of each cell and cell cluster on the two-dimensional UMAP space with a 10% downsampling (**Panel A**). Using median expression of flow cytometry markers, we generated a cluster-by-marker heatmap to characterize the subsets (**Panel B**) and visualized individual marker expression patterns on the UMAP space (**Panel C**). To understand the effect of SARS-CoV2 infection on cell population dynamics, we compared UMAP cluster frequencies of HD vs. baseline COVID-19 patient samples (**Panels D** and **E**). We visualized samples from COVID-19 patients D2, 4, and 8 after CD24Fc vs. placebo treatment using contour plots to represent the density of cells throughout regions of the UMAP space (**Panel F**). We describe cluster population dynamics as fold change over baseline in each treatment group (**Panel G**; sample distribution described in **Fig 1F** legend). To better characterize the activation status of Treg cells, we linearly transformed a subset of markers (Ki-67, TOX, CD25,

ICOS, CTLA4) to create a univariate cell-level activation score (**Panel H**), where highly activated cell clusters (such as clusters 6, 7 and 8) had highest activation scores (**Panel I**). We then fit a GLMM to our longitudinal cell-level activation scores to assess the effect of CD24Fc treatment on activation scores over time (**Panel J**). The p-value for evaluating the overall difference in trends between CD24Fc and placebo groups across all time points was calculated using the Kenward-Roger method. Using this model, we found that CD24Fc-treated samples had significantly lower Treg cell activation levels relative to placebo.

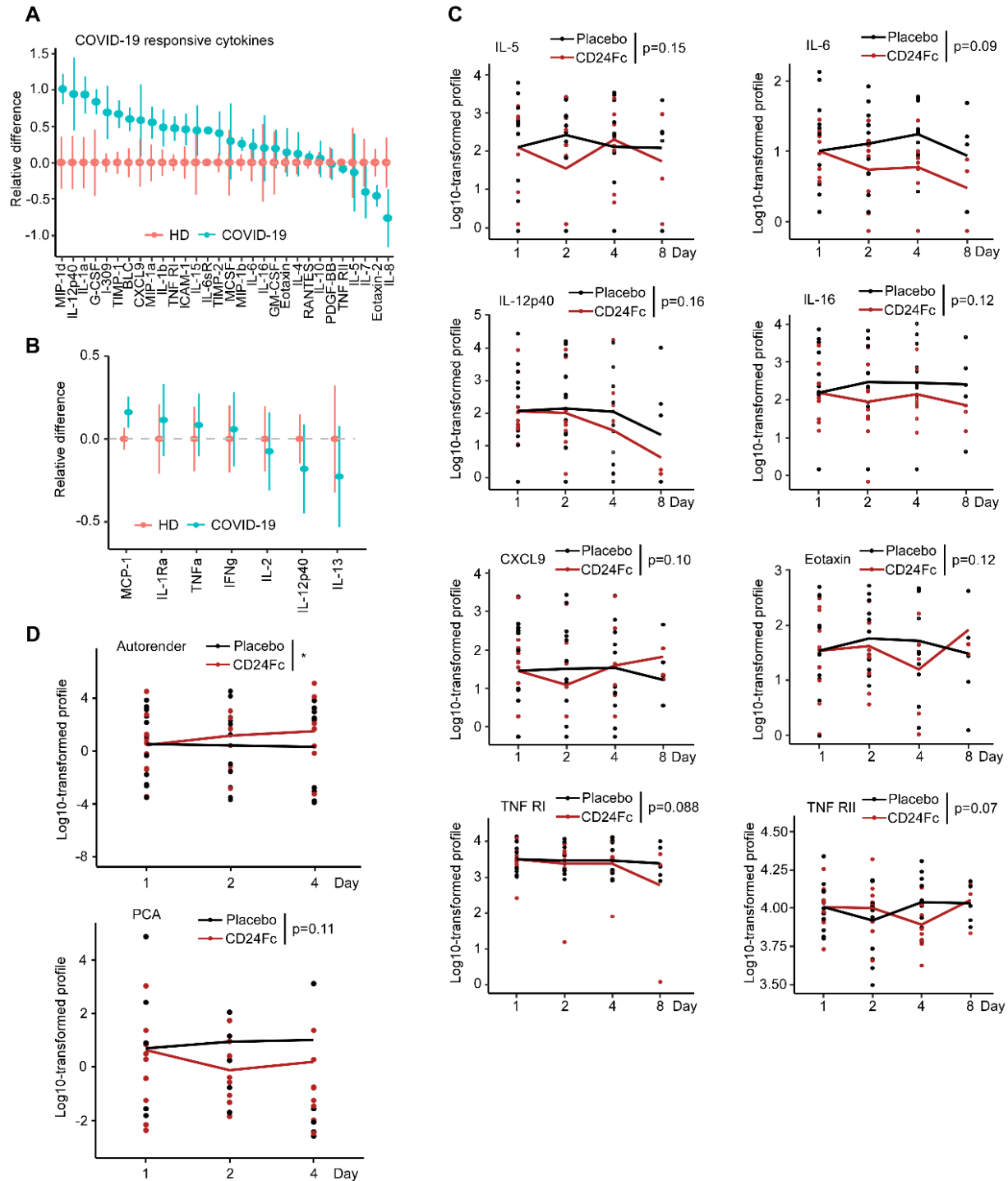


Figure S4. CD24Fc treatment downregulates systemic cytokines response in patients with COVID-19. We studied plasma cytokine and chemokine levels in HD and COVID-19 patients. Cytokine/chemokine measurements were log-transformed, and relative differences in cytokines in COVID-19 (n=22) compared to HD (n=25) samples were depicted (**Panel A and B**). Graph in Panel A shows data obtained using multiplex-ELISA platform, while graph in panel B presents data of cytokines measured by the Luminex analysis. Independent sample t-test was used to evaluate equality of average cytokine/chemokine levels. A number of other markers displayed trends towards decline in CD24Fc cohort compare to placebo, although these changes were not statistically significant (**Panel C**). Log-10 transformed cytokine measurement (dots) and GLMM predicted fixed effects trends (lines) of IL-5, IL-6, IL-12p40,

IL-16, CXCL9, Eotaxin, TNF R1 and TNF RII plasma concentrations in CD24Fc (red) and placebo (black) groups are displayed. The observed values and trend lines are centered at D1 mean. Longitudinal analysis of cytokine score was confirmed using both Autoencoder and PCA approaches (**Panel D**). We applied PCA and autoencoder on the base 10 log-transformed, centered and scaled cytokine data, and investigated the first two principal components (PCs) from the PCA and the three latent components from the autoencoder as cytokine scores. The autoencoder analysis was implemented using the Keras package. Specifically, we set one hidden layer for encoder and decoder, respectively, and three-dimensional embedding as latent layer output. All parameters were trained based on a 3-fold cross-validation. Due to missing data on D8, only D1, D2, and D4 data were used for the cytokine score calculation. For **Panels C and D**, the overall differences in trends between CD24Fc and placebo groups across all the time points were evaluated using a GLMM of each measurement. The p-value for evaluating the overall difference in trends between CD24Fc and placebo groups across all the time points was calculated using the Kenward-Roger method.

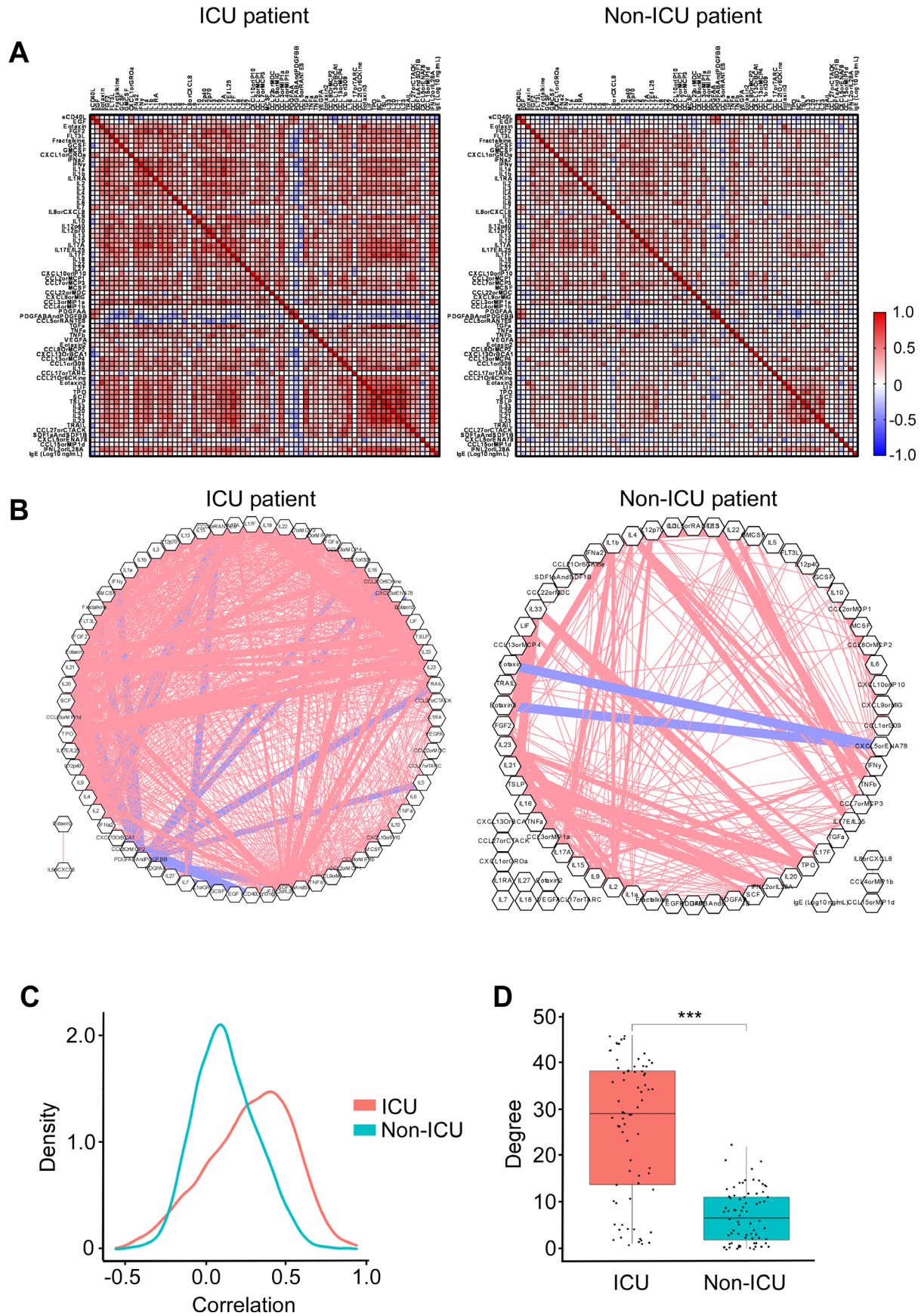


Figure S5. Patients with severe COVID-19 that require an ICU treatment display increased correlation and connectivity of the systemic cytokine network. We analyzed correlation (**Panel A**) and connectivity (**Panel B**) between circulating cytokines and chemokines in COVID-19 patients that either required (ICU patients), or did not require an ICU treatment (non-ICU patients). Cytokine measurements were obtained from previously published dataset ¹⁶. Analysis was performed as described in **Fig 4**. A density plot constructed based on connectivity between plasma cytokines is shown in **Panel C**. **Panel D** shows an association between the severity of COVID-19 infection and the degree of the connectivity between plasma cytokines with severe ICU cases displaying higher degree of connectivity. The p-value was calculated using Wilcoxon Rank Sum test.

SUPPLEMENTARY TABLES

Table S1. Patient Characteristics.

CHARACTERISTIC	OVERALL (N=22)	PLACEBO (N=12)	CD24Fc (N=10)	P- value
a) Demographics				
BMI - median (IQR)	31.65 (28.18-38.83)	31.65 (29.41-39.52)	32.2 (28.1-37.88)	0.644
Age, yr - median (IQR)	57 (50.25-74.75)	60.5 (53.5-75)	55 (49.5-62)	0.62
<65 yr - no. (%)	15 (68.2)	7 (58.3)	8 (80.0)	
≥65 yr - no. (%)	7 (31.8)	5 (41.7)	2 (20.0)	
Sex - no. (%)				0.903
Female	8 (36.4)	5 (41.7)	3 (30.0)	
Male	14 (63.6)	7 (58.3)	7 (70.0)	
Race - no. (%)				0.528
White	16 (72.7)	9 (75.0)	7 (70.0)	
Black/AA	5 (22.7)	2 (16.7)	3 (30.0)	
Not Specified	1 (4.5)	1 (8.3)	0 (0.0)	
Ethnicity - no. (%)				0.724
Hispanic	4 (18.2)	3 (25.0)	1 (10.0)	
Non-Hispanic	18 (81.8)	9 (75.0)	9 (90.0)	
Smoking Hx - no. (%)	7 (31.8)	3 (25.0)	4 (40.0)	0.77
b) Co-existing Conditions				
Comorbidities - no. (%)				
Obesity (BMI ≥30)	12 (54.5)	7 (58.3)	5 (50.0)	1
Hypertension	11 (50.0)	5 (41.7)	6 (60.0)	0.669
Hyperlipidemia	8 (36.4)	5 (41.7)	3 (30.0)	0.903
Heart Disease	7 (31.8)	2 (16.7)	5 (50.0)	0.226
Diabetes	7 (31.8)	3 (25.0)	4 (40.0)	0.77
Autoimmune Condition	3 (13.6)	3 (25.0)	0 (0.0)	0.281
Cancer	2 (9.1)	1 (8.3)	1 (10.0)	1
HIV	1 (4.5)	0 (0.0)	1 (10.0)	0.926
COPD/Asthma	2 (9.1)	1 (8.3)	1 (10.0)	1
c) Clinical Information				
Baseline diastolic blood pressure, mm Hg - median (IQR)	65.5 (61.5-74)	67.5 (62.5-72)	65.5 (61.75-73.25)	0.766
Baseline systolic blood pressure, mm Hg - median (IQR)	127 (121-139.75)	138.5 (117.5-144)	124 (121.75-129)	0.137
Normotensive (<130) - no. (%)	12 (54.5)	5 (41.7)	7 (70.0)	0.369
Hypertensive (≥130) - no. (%)	10 (45.5)	7 (58.3)	3 (30.0)	
Baseline O ₂ saturation on room air, % - median (IQR)	0.88 (0.84-0.9)	0.86 (0.8-0.88)	0.88 (0.85-0.9)	0.185
Hypoxic (<90) - no. (%)	16 (72.7)	10 (83.3)	6 (60.0)	0.458
Non-hypoxic (≥90) - no. (%)	6 (27.3)	2 (16.7)	4 (40.0)	
Baseline respiratory rate, respirations/min - median (IQR)	20 (18-25.5)	22 (19.5-28.5)	19 (16.5-21.5)	0.053
Eupnic (≤20) - no. (%)	13 (59.1)	6 (50.0)	7 (70.0)	0.607
Tachypnic (>20) - no. (%)	9 (40.9)	6 (50.0)	3 (30.0)	
Baseline heart rate, beats/min - median (IQR)	82.5 (67-91.75)	82.5 (73-91.25)	77.5 (66.25-92.5)	0.817
Eucardic (≤100) - no. (%)	22 (100.0)	12 (100.0)	10 (100.0)	n/a
Tachycardic (>100) - no. (%)	0 (0.0)	0 (0.0)	0 (0.0)	
Baseline temperature, °C - median (IQR)	37 (36.8-37.38)	36.95 (36.77-37.12)	37.15 (36.82-37.55)	0.466
Febrile (>37.0) - no. (%)	9 (40.9)	4 (33.3)	5 (50.0)	0.722
Non-febrile (≤37.0) - no. (%)	13 (59.1)	8 (66.7)	5 (50.0)	
Baseline RBC Count, M/μL - median (IQR)	4.61 (4.36-4.94)	4.61 (4.26-4.94)	4.62 (4.44-4.94)	0.598
Low (<4.3) - no. (%)	4 (18.2)	3 (25.0)	1 (10.0)	0.541
Normal (4.3-5.5) - no. (%)	15 (68.2)	8 (66.7)	7 (70.0)	
Elevated (>5.5) - no. (%)	3 (13.6)	1 (8.3)	2 (20.0)	
Baseline WBC Count, K/μL - median (IQR)	5.75 (5.23-8.07)	6.79 (5.34-7.98)	5.62 (4.85-8.78)	0.429
Low (<4.5) - no. (%)	2 (9.1)	0 (0.0)	2 (20.0)	0.124
Normal (4.5-11.0) - no. (%)	19 (86.4)	12 (100.0)	7 (70.0)	
Elevated (>11.0) - no. (%)	1 (4.5)	0 (0.0)	1 (10.0)	
Baseline Neutrophils, K/μL - median (IQR)	4.43 (3.9-6.8)	4.93 (4.3-6.38)	4.03 (3.15-6.75)	0.323
Baseline Lymphocytes, K/μL - median (IQR)	1.04 (0.76-1.33)	1.14 (0.69-1.6)	0.92 (0.85-1.21)	0.921
Baseline Monocytes, K/μL - median (IQR)	0.36 (0.29-0.57)	0.32 (0.25-0.5)	0.38 (0.34-0.57)	0.235
Baseline Eosinophils, K/μL - median (IQR)	0.04 (0.04-0.06)	0.04 (0.04-0.04)	0.04 (0.04-0.06)	0.129
Baseline Basophils, K/μL - median (IQR)	0.04 (0.04-0.04)	0.04 (0.04-0.04)	0.04 (0.04-0.04)	0.097
Baseline Hemoglobin, g/dL - median (IQR)	13.4 (12.95-14)	13.3 (12.7-14.15)	13.45 (13.17-13.67)	0.575
Low (<13.2) - no. (%)	8 (36.4)	5 (41.7)	3 (30.0)	0.263

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Normal (13.2-16.4) - no. (%)	12 (54.5)	5 (41.7)	7 (70.0)	
Elevated (>16.4) - no. (%)	2 (9.1)	2 (16.7)	0 (0.0)	
Baseline Platelet Count, K/ μ L - median (IQR)	224.5 (187.75-253)	224 (171.75-251)	224.5 (208.25-268.75)	0.621
Normal (150-450) - no. (%)	21 (95.5)	11 (91.7)	10 (100.0)	1
Elevated (>450) - no. (%)	1 (4.5)	1 (8.3)	0 (0.0)	
Baseline D-dimer, μ g/mL - median (IQR)	0.95 (0.58-1.92)	1.12 (0.69-1.65)	0.79 (0.45-1.82)	0.276
Normal (<0.50) - no. (%)	5 (22.7)	1 (8.3)	4 (40.0)	0.21
Elevated (\geq 0.50) - no. (%)	17 (77.3)	11 (91.7)	6 (60.0)	
Baseline International Normalized Ratio, sec - median (IQR)	1.1 (1-1.1)	1.1 (1-1.15)	1.1 (1-1.1)	0.487
Normal (0.9-1.1) - no. (%)	17 (77.3)	9 (75.0)	8 (80.0)	1
Elevated (>1.1) - no. (%)	5 (22.7)	3 (25.0)	2 (20.0)	
Baseline ESR, mm/hr - median (IQR)	51.5 (40-71)	43 (35.75-61.5)	64.5 (43.75-71)	0.198
Baseline CRP, mg/L - median (IQR)	80.59 (68.91-142.69)	80.59 (67.83-147.37)	90.22 (72.53-132.12)	0.895
Baseline Troponin, ng/mL - median (IQR)	0.01 (0.01-0.02)	0.01 (0.01-0.01)	0.01 (0.01-0.03)	0.193
Time from symptom onset to infusion, days - median (IQR)	10.5 (8.25-12.75)	10.5 (8.75-13)	10.5 (8.25-11)	0.571
Earlier (\leq 10) - no. (%)	11 (50.0)	6 (50.0)	5 (50.0)	1
Later (>10) - no. (%)	11 (50.0)	6 (50.0)	5 (50.0)	
Time from infusion to discharge, days - median (IQR)	6 (4-8.75)	6 (3.75-9)	5.5 (4-7.5)	0.618
Shorter (\leq 7) - no. (%)	15 (68.2)	8 (66.7)	7 (70.0)	1
Longer (>7) - no. (%)	7 (31.8)	4 (33.3)	3 (30.0)	
Total hospital stay, days - median (IQR)	9 (6-11.75)	9.5 (7.5-12.25)	7 (6-10)	0.371
Shorter (\leq 10) - no. (%)	15 (68.2)	7 (58.3)	8 (80.0)	0.531
Longer (>10) - no. (%)	7 (31.8)	5 (41.7)	2 (20.0)	
O ₂ requirement at admission, L/min - median (IQR)	2 (2-4)	2 (2-8)	2.5 (2-3.25)	0.601
None (<1) - no. (%)	5 (22.7)	3 (25.0)	2 (20.0)	0.598
Low (1-49) - no. (%)	16 (72.7)	8 (66.7)	8 (80.0)	
High (\geq 50) - no. (%)	1 (4.5)	1 (8.3)	0 (0.0)	
Peak O ₂ requirement during hospital stay, L/min - median (IQR)	6.5 (3.25-11.25)	8.5 (4.5-26.25)	5 (3.25-6.75)	0.119
Low (1-49) - no. (%)	18 (81.8)	9 (75.0)	9 (90.0)	0.724
High (\geq 50) - no. (%)	4 (18.2)	3 (25.0)	1 (10.0)	
O ₂ requirement at discharge, L/min - median (IQR)	3 (3-3)	3 (3-3)	3 (2-3)	0.414
None (<1) - no. (%)	17 (77.3)	10 (83.3)	7 (70.0)	0.816
Low (1-49) - no. (%)	5 (22.7)	2 (16.7)	3 (30.0)	
ICU Stay - no. (%)	5 (22.7)	4 (33.3)	1 (10.0)	0.43
d) Concomitant Medication				
Concurrent COVID-19 Treatments - no. (%)				
Convalescent Plasma	19 (86.4)	10 (83.3)	9 (90.0)	1
Remdesivir	19 (86.4)	11 (91.7)	8 (80.0)	0.865
Dexamethasone	15 (68.2)	9 (75.0)	6 (60.0)	0.77
Anti-microbials	16 (72.7)	9 (75.0)	7 (70.0)	1

Median and Inter-quartile range (IQR) was determined for all continuous variables. P-values were obtained using Kruskal Wallis test continuous variables. Chi-square test was used to obtain p-values for categorical variables.

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Table S2. Immune Cell Marker Panels.

Cytek Flow Cytometry Panel	
Marker	Description
CD45RA	BUV395 Mouse Anti-Human CD45RA
Viability dye	LIVE/DEAD™ Fixable Blue Dead Cell Stain Kit, for UV excitation
CD16	BUV496 Mouse Anti-Human CD16
CCR5	BUV563 Mouse Anti-Human CD195 (CCR5)
CD11c	BUV661 Mouse Anti-Human CD11c
CD56	BUV737 Mouse Anti-Human CD56
CD8	BD Horizon™ BUV805 Mouse Anti-Human CD8
CCR7	Brilliant Violet 421™ anti-human CD197 (CCR7) Antibody
CD123	CD123 Monoclonal Antibody (6H6), Super Bright 436, eBioscience™
CD161	CD161 Monoclonal Antibody (HP-3G10), eFluor 450, eBioscience™
IgD	BV480 Mouse Anti-Human IgD
CD3	Brilliant Violet 510™ anti-human CD3 Antibody
CD20	CD20 Monoclonal Antibody (HI47), Pacific Orange
IgM	Brilliant Violet 570™ anti-human IgM Antibody
IgG	BD Horizon™ BV605 Mouse Anti-Human IgG
CD28	Brilliant Violet 650™ anti-human CD28 Antibody (clone CD28.2)
CCR6	Brilliant Violet 711™ anti-human CD196 (CCR6) Antibody
CXCR5	BV750 Rat Anti-Human CXCR5 (CD185)
PD-1	Brilliant Violet 785™ anti-human CD279 (PD-1) Antibody
CD141	BD Horizon™ BB515 Mouse Anti-Human CD141
CD57	FITC anti-human CD57 Antibody
CD14	Spark Blue™ 550 anti-human CD14 Antibody
CD45	CD45 Monoclonal Antibody (H130), PerCP
CD11b	PerCP/Cyanine5.5 anti-human CD11b Antibody
TCR gd	TCR gamma/delta Monoclonal Antibody (B1.1), PerCP-eFluor 710, eBioscience™
CD25	CD25 Monoclonal Antibody (BC96), PE, eBioscience™
CD4	eFluor 568 Anti-human CD4
CD24	CD24 Monoclonal Antibody (eBioSN3 (SN3 A5-2H10)), PE-eFluor 610, eBioscience™
CD95	CD95 (APO-1/Fas) Monoclonal Antibody (DX2), PE-Cyanine5, eBioscience™
CXCR3	CD183 (CXCR3) Monoclonal Antibody (CEW33D), PE-Cyanine7, eBioscience™
CD27	CD27 Monoclonal Antibody (O323), APC, eBioscience™
CD1c	Alexa Fluor® 647 anti-human CD1c Antibody
CD19	Spark NIR™ 685 anti-human CD19 Antibody
CD127	APC-R700 Mouse Anti-Human CD127
HLA-DR	HLA-DR Monoclonal Antibody (L243), APC-eFluor 780, eBioscience™
CD38	CD38 APC-Fire810
Immune Monitoring Cytometry Panel	
Marker	Description
Viability dye	LIVE/DEAD™ Fixable Blue Dead Cell Stain Kit, for UV excitation
CD45	CD45 Monoclonal Antibody (2D1), Super Bright 645, eBioscience™
CD3	BUV395 Mouse Anti-Human CD3 Clone SK7
CD8	CD8a Monoclonal Antibody (OKT8 (OKT-8)), Super Bright 436, eBioscience™
CD4	CD4 Monoclonal Antibody (RPA-T4), PerCP-Cyanine5.5, eBioscience™
FOXP3	FOXP3 Monoclonal Antibody (PCH101), eFluor 450, eBioscience™
CD11b	BUV661 Rat Anti-CD11b Clone M1/70
CD56	Brilliant Violet 750™ anti-human CD56 (NCAM) Antibody
CD45RO	BB515 Mouse Anti-Human CD45RO Clone UCHL1
CD25	CD25 Monoclonal Antibody (BC96), Super Bright 600, eBioscience™
PD1	BUV737 Mouse Anti-Human CD279 (PD-1) Clone EH12.1
Tim3	CD366 (TIM3) Monoclonal Antibody (F38-2E2), Super Bright 702, eBioscience™
TOX	TOX Antibody, anti-human/mouse, APC, REAfinity™
TCF1	PE anti-TCF1 (TCF7) Antibody
CD44	APC/Cyanine7 anti-mouse/human CD44 Antibody
CD62L	BV421 Mouse Anti-Human CD62L Clone DREG-56
CTLA4	PE/Dazzle™ 594 anti-human CD152 (CTLA-4) Antibody
Lag-3	CD223 (LAG-3) Monoclonal Antibody (3DS223H), PE-Cyanine5, eBioscience™
Klrg1	Brilliant Violet 510™ anti-mouse/human KLRG1 (MAFA) Antibody
T-bet	BV786 Mouse Anti-T-bet Clone O4-46
Ki-67	Ki-67 Monoclonal Antibody (SolA15), PerCP-eFluor 710, eBioscience™
Gzmb	Granzyme B Monoclonal Antibody (N4TL33), Alexa Fluor 532, eBioscience™
VISTA	VISTA Monoclonal Antibody (B7H5DS8), PE-Cyanine7, eBioscience™
ICOS	Alexa Fluor® 488 anti-human/mouse/rat CD278 (ICOS) Antibody

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CD69	BUV805 Mouse Anti-Human CD69 Clone FN50
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Table S3. First principal component (PC1) loadings of each activation marker were used as coefficients for defining the activation score.

Marker	PC1 loading for HD & COVID D1	Average Log-Fold Change (HD vs. COVID day 1)	Wilcoxon p-value (HD vs. COVID day 1)
<i>CD8+ T cells</i>			
T-bet	0.71	0.52	<0.001
Ki-67	0.39	0.46	<0.001
CD69	0.28	0.39	<0.001
TOX	0.40	0.31	<0.001
GZMB	0.31	0.20	<0.001
<i>CD4+ T cells (total)</i>			
T-bet	0.14	0.08	<0.001
Ki67	0.69	0.38	<0.001
CD69	0.34	0.41	<0.001
TOX	0.33	0.19	<0.001
PD1	0.53	0.11	<0.001
<i>Treg cells</i>			
Ki-67	0.76	0.33	<0.001
TOX	0.14	0.38	<0.001
CD25	0.07	0.09	<0.001
iCOS	0.43	0.17	<0.001
CTLA4	0.47	0.30	<0.001
<i>NK cells</i>			
TOX	0.16	0.42	<0.001
GZMB	0.07	0.28	<0.001
KLRG1	0.08	0.06	<0.001
Ki-67	0.89	0.84	<0.001
LAG3	0.03	0.08	<0.001

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Table S4. Cytokine concentrations from plasma samples (pg/mL), as measured by multiplex ELISA.

Time point	Treatment	C-X-C Motif Chemokine Ligand 13 (CXCL13; BLC)	C-C Motif Chemokine Ligand 24 (CCL24; Eotaxin-2)	C-C Motif Chemokine Ligand II (CCL11; Eotaxin)	Granulocyte colony-stimulating factor (G-CSF)	Granulocyte-macrophage colony-stimulating factor (GM-CSF)	C-C Motif Chemokine Ligand I (CCL1; I-309)	Intercellular Adhesion Molecule 1 (ICAM-1)	Interleukin-4 (IL-4)
Day 1	Placebo	12.53	38.01	16.84	131.38	31.90	2.00	20527.30	1.01
Day 2	Placebo	4.70	49.97	23.44	41.96	139.30	2.00	29374.20	3.72
Day 4	Placebo	9.36	61.23	12.12	139.11	29.30	6.90	21762.90	0.10
Day 8	Placebo	3.99	60.31	27.20	0.00	105.70	2.50	22862.30	0.00
Day 1	Placebo	4.95	27.83	30.22	150.76	186.70	0.00	40216.90	0.00
Day 2	Placebo	5.08	36.44	24.41	0.00	75.70	0.60	31875.30	0.00
Day 4	Placebo	6.12	25.73	30.01	0.00	3.30	0.00	74582.80	0.00
Day 1	CD24Fc	12.53	8.96	37.60	27.61	36.90	4.20	22647.20	6.31
Day 2	CD24Fc	14.65	11.19	33.15	26.20	50.10	2.40	27288.00	1.54
Day 4	CD24Fc	14.74	29.21	42.24	10.47	142.60	6.30	63115.90	6.46
Day 1	Placebo	15.95	33.91	9.70	16.39	0.00	4.10	13311.00	0.00
Day 2	Placebo	21.36	64.68	11.42	46.54	0.00	6.20	49666.20	0.00
Day 4	Placebo	33.70	54.13	2.37	0.00	72.80	0.00	36863.20	0.00
Day 8	Placebo	1.21	82.72	8.57	21.50	9.00	0.00	34612.40	0.00
Day 1	CD24Fc	16.02	129.35	33.13	47.21	0.00	1.80	36471.50	0.00
Day 2	CD24Fc	11.50	73.40	24.00	41.07	0.00	0.80	27022.20	0.00
Day 4	CD24Fc	8.64	64.39	40.92	40.32	4.40	0.40	23973.70	0.00
Day 8	CD24Fc	6.74	38.32	43.17	1.47	12.90	0.10	15971.70	0.00
Day 1	CD24Fc	26.64	13.51	15.39	38.22	69.80	28.20	67829.20	0.00
Day 2	CD24Fc	31.75	12.59	4.43	32.61	43.50	11.80	55250.10	0.00
Day 4	CD24Fc	5.33	19.82	0.00	36.18	123.20	0.00	51403.20	0.00
Day 8	CD24Fc	13.06	25.65	27.53	30.73	82.00	5.30	74985.70	0.00
Day 1	Placebo	12.81	5.71	3.36	48.19	31.40	1.30	39761.20	0.00
Day 2	Placebo	18.12	8.31	7.13	50.62	23.30	16.10	53815.00	0.00
Day 4	Placebo	11.57	9.47	0.41	45.67	76.00	0.00	41634.80	0.00
Day 8	Placebo	5.83	9.57	0.27	39.26	0.00	0.00	28925.90	0.00
Day 1	CD24Fc	8.74	7.34	0.00	46.82	30.20	4.70	290257.10	0.00
Day 2	CD24Fc	6.24	9.55	2.51	51.98	0.00	48.30	161549.60	0.00
Day 4	CD24Fc	6.95	11.01	0.00	38.70	0.00	0.00	197095.10	0.00
Day 1	Placebo	23.72	15.20	11.60	28.44	20.90	11.30	50848.50	0.00
Day 2	Placebo	55.97	32.18	29.22	41.34	22.20	29.90	73935.60	0.00
Day 4	Placebo	27.66	17.79	19.14	35.25	0.00	0.00	73493.70	0.00
Day 1	CD24Fc	18.00	19.38	2.61	36.31	80.10	67.20	170861.50	0.00
Day 2	CD24Fc	38.94	11.05	11.85	47.34	13.70	32.30	440283.70	0.00
Day 4	CD24Fc	36.93	26.36	22.48	38.46	49.10	7.10	260565.90	0.00
Day 8	CD24Fc	10.31	24.25	42.22	42.16	2.70	19.10	125248.30	0.00
Day 1	CD24Fc	29.92	56.83	8.58	44.11	56.00	0.00	19834.40	0.00
Day 2	CD24Fc	21.76	125.06	26.44	24.38	23.30	0.00	12650.30	0.00
Day 4	CD24Fc	24.98	90.62	1.38	41.00	88.10	0.00	15490.60	0.00
Day 2	Placebo	25.81	97.58	14.79	38.49	19.70	0.00	641851.10	0.00
Day 1	CD24Fc	10.44	47.88	74.66	50.36	108.20	46.30	67385.40	0.00
Day 2	CD24Fc	10.41	50.73	104.94	65.76	108.60	39.40	90977.30	0.02

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Time point	Treatment	C-X-C Motif Chemokine Ligand 13 (CXCL13; BLC)	C-C Motif Chemokine Ligand 24 CCL24; (Eotaxin-2)	C-C Motif Chemokine Ligand 11 (CCL11; Eotaxin)	Granulocyte colony-stimulating factor (G-CSF)	Granulocyte-macrophage colony-stimulating factor (GM-CSF)	C-C Motif Chemokine Ligand 1 (CCL1; I-309)	Intercellular Adhesion Molecule 1 (ICAM-1)	Interleukin-4 (IL-4)
Day 4	CD24Fc	12.84	36.01	0.00	42.07	92.70	17.70	62077.90	0.00
Day 1	Placebo	212.93	102.63	0.00	991.25	120.90	250.00	349107.40	162.94
Day 2	Placebo	66.59	67.11	378.70	539.39	103.10	193.60	291722.80	128.76
Day 4	Placebo	81.52	50.77	425.43	388.75	64.10	150.30	197747.80	59.66
Day 1	CD24Fc	22.75	15.40	181.44	50.45	18.30	0.00	139448.60	0.00
Day 2	CD24Fc	20.08	23.07	263.20	61.25	0.00	0.00	146635.70	0.00
Day 4	CD24Fc	12.12	26.31	154.88	50.49	64.50	10.60	127301.30	0.00
Day 1	Placebo	25.02	11.76	98.97	42.80	9.40	0.00	229209.90	0.00
Day 2	Placebo	15.25	12.56	77.88	33.60	85.40	0.00	210878.20	0.00
Day 4	Placebo	9.67	10.19	134.79	32.97	56.40	0.00	707097.60	0.00
Day 1	CD24Fc	33.56	30.13	205.87	41.78	110.90	0.00	620242.10	0.00
Day 2	CD24Fc	27.79	34.17	106.16	83.03	39.90	0.00	644971.80	0.00
Day15	CD24Fc	14.24	30.70	80.51	147.72	50.00	65.20	711227.80	0.00
Day 1	Placebo	60.29	53.19	362.63	309.77	60.50	254.40	229168.10	98.69
Day 2	Placebo	69.81	61.30	535.30	641.33	173.00	205.20	173863.70	145.39
Day 4	Placebo	82.70	38.03	441.94	521.90	212.80	203.80	369359.70	91.22
Day 1	CD24Fc	60.65	52.30	293.53	273.07	121.80	107.50	232616.20	44.19
Day 2	CD24Fc	68.26	34.69	259.84	285.05	68.50	69.90	222667.00	36.54
Day 4	CD24Fc	51.75	63.70	448.67	288.45	88.70	76.50	244856.10	62.31
Day 1	Placebo	51.60	40.98	353.32	171.15	309.90	115.90	128269.60	26.70
Day 2	Placebo	47.86	40.39	292.81	186.55	155.50	91.90	269854.80	34.13
Day 4	Placebo	58.43	66.92	473.94	425.67	238.70	196.50	245009.70	115.88
Day 8	Placebo	45.88	62.25	431.67	228.11	120.50	127.80	179736.00	35.32
Day 1	Placebo	175.78	25.01	507.55	69.75	60.40	38.50	642359.80	0.00
Day 2	Placebo	157.93	23.21	127.47	108.44	22.50	44.70	596807.60	0.00
Day 4	Placebo	190.30	52.90	475.43	102.31	54.20	66.00	915164.70	0.00
Day 8	Placebo	310.85	49.00	59.70	65.06	37.60	32.00	427184.20	0.00
Day15	Placebo	152.21	60.45	364.89	52.93	0.00	35.70	696071.90	0.00
Day 1	Placebo	18.46	66.15	93.38	68.93	5.30	0.00	66878.10	0.00
Day 2	Placebo	16.50	61.55	165.76	66.31	31.20	0.00	111900.60	0.00
	Healthy Donors	4.53	151.36	20.01	1072.96	55.87	1.06	15963.72	0.95
	Healthy Donors	14.96	133.09	33.10	159.53	133.13	0.95	27944.49	1.86
	Healthy Donors	6.98	121.76	31.71	135.36	121.45	1.49	30490.73	0.08
	Healthy Donors	10.10	30.07	23.79	1004.70	309.67	1.78	37735.78	5.39
	Healthy Donors	1.61	480.40	9.65	0.00	79.88	0.00	144172.30	0.00
	Healthy Donors	1.27	252.17	9.92	0.00	180.45	0.00	199822.17	0.00
	Healthy Donors	3.74	196.21	15.30	13.47	61.60	0.41	146682.40	0.00
	Healthy Donors	3.48	628.34	27.68	0.00	137.50	0.00	102571.91	0.00
	Healthy Donors	1.47	430.58	8.63	0.00	271.14	0.00	2324.59	0.00
	Healthy Donors	9.84	151.00	15.17	29.21	856.48	1.06	15426.11	0.00
	Healthy Donors	0.00	203.38	36.57	0.00	327.04	0.00	16919.45	0.00
	Healthy Donors	0.00	84.90	19.55	0.00	382.48	0.00	15233.18	0.00
	Healthy Donors	4.59	30.40	4.76	0.00	25.67	2.04	129264.72	1.52
	Healthy Donors	3.54	207.55	21.12	70.90	0.00	0.00	359668.97	0.00

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Time point	Treatment	C-X-C Motif Chemokine Ligand 13 (CXCL13; BLC)	C-C Motif Chemokine Ligand 24 CCL24; (Eotaxin-2)	C-C Motif Chemokine Ligand 11 (CCL11; Eotaxin)	Granulocyte colony-stimulating factor (G-CSF)	Granulocyte-macrophage colony-stimulating factor (GM-CSF)	C-C Motif Chemokine Ligand 1 (CCL1; I-309)	Intercellular Adhesion Molecule 1 (ICAM-1)	Interleukin-4 (IL-4)
	Healthy Donors	1.38	13.06	1.57	0.00	0.00	0.02	7440.88	0.00
	Healthy Donors	1.22	69.56	21.64	10.88	0.00	0.00	13929.65	5.46
	Healthy Donors	3.20	45.96	19.06	0.00	0.00	0.09	6787.48	0.00
	Healthy Donors	12.17	10.64	80.37	0.00	0.00	0.00	13113.68	0.00
	Healthy Donors	20.45	40.33	30.38	302.95	0.00	0.70	24719.27	5.14
	Healthy Donors	11.94	47.78	77.22	26.06	0.00	0.48	87587.09	2.10
	Healthy Donors	124.66	12.61	61.46	0.00	53.95	0.00	229829.81	0.26
	Healthy Donors	14.03	43.16	40.21	0.00	15.91	1.40	11284.43	0.00
	Healthy Donors	56.10	149.29	56.65	482.73	0.33	9.25	55734.14	17.49
	Healthy Donors	28.94	39.20	56.10	469.04	416.95	20.78	22217.29	16.60
	Healthy Donors	5.82	89.46	46.37	0.00	0.00	0.00	8137.58	0.00

Time point	Treatment	Interleukin-10 (IL-10)	Interleukin-12 subunit p40 (IL-12p40)	Interleukin-15 (IL-15)	Interleukin-16 (IL-16)	Interleukin-1 alpha (IL-1a)	Interleukin-1 beta (IL-1b)	Interleukin-5 (IL-5)	Interleukin-6 (IL-6)
Day 1	Placebo	5.04	57.47	110.71	179.85	45.20	4.72	4.98	14.49
Day 2	Placebo	12.07	77.95	792.67	344.96	78.70	4.99	84.24	15.94
Day 4	Placebo	7.35	34.20	399.70	381.20	51.90	4.17	123.92	42.52
Day 8	Placebo	17.01	0.00	425.84	460.11	173.00	3.58	360.18	34.15
Day 1	Placebo	2.57	35.92	0.00	0.00	117.10	0.00	342.24	26.58
Day 2	Placebo	11.29	30.77	23.25	20.96	124.30	2.57	217.49	22.52
Day 4	Placebo	1.71	54.96	13.82	0.00	31.00	1.09	17.89	12.30
Day 1	CD24Fc	5.02	43.96	35.67	44.67	8.60	3.02	65.54	21.30
Day 2	CD24Fc	0.00	87.50	0.00	0.00	34.60	2.53	60.49	15.53
Day 4	CD24Fc	9.55	131.74	79.82	45.67	112.20	1.72	177.87	36.13
Day 1	Placebo	0.24	24.36	0.00	0.00	34.10	2.61	20.23	16.39
Day 2	Placebo	1.26	28.07	0.00	0.00	17.30	2.46	0.00	16.18
Day 4	Placebo	5.39	2.32	0.00	0.00	98.60	0.90	109.87	13.37
Day 8	Placebo	0.99	0.00	11.10	1.95	84.10	2.52	0.00	8.10
Day 1	CD24Fc	0.00	115.44	29.72	36.01	22.70	3.59	0.00	6.63
Day 2	CD24Fc	0.00	102.15	0.00	51.55	0.00	3.42	0.00	5.45
Day 4	CD24Fc	0.00	41.45	19.63	106.01	52.30	3.32	4.82	6.59
Day 8	CD24Fc	0.00	0.00	0.00	70.09	47.00	2.76	14.34	9.35
Day 1	CD24Fc	0.00	27.29	132.54	134.83	15.70	1.77	498.34	17.64
Day 2	CD24Fc	0.00	8.73	94.58	44.60	14.00	1.71	593.45	35.87
Day 4	CD24Fc	0.00	0.00	113.57	145.38	11.50	0.60	739.84	11.62
Day 8	CD24Fc	0.00	0.00	73.29	102.09	14.10	1.40	749.68	6.11
Day 1	Placebo	0.00	422.32	95.59	321.82	26.60	11.10	770.09	1.44
Day 2	Placebo	0.00	489.92	108.85	339.16	15.00	11.22	80.00	2.55
Day 4	Placebo	0.00	277.43	132.62	493.83	26.30	13.28	358.06	0.94
Day 8	Placebo	0.00	109.07	65.93	167.25	13.20	3.10	391.03	0.00
Day 1	CD24Fc	28.74	23.87	181.89	194.04	46.40	2.42	654.26	11.71
Day 2	CD24Fc	0.00	20.16	239.89	246.40	36.80	7.60	0.00	2.66
Day 4	CD24Fc	0.00	83.61	86.80	94.16	15.90	0.81	2.64	0.00
Day 1	Placebo	0.00	0.00	37.14	0.00	0.00	0.66	0.00	0.75
Day 2	Placebo	0.00	10.24	105.57	57.61	0.00	0.00	179.76	0.72
Day 4	Placebo	0.00	7.05	67.42	155.70	1.80	0.34	0.00	4.79
Day 1	CD24Fc	0.00	24.45	259.36	161.49	22.10	2.09	580.68	21.33
Day 2	CD24Fc	0.00	38.92	103.60	80.27	32.80	0.00	0.00	0.00
Day 4	CD24Fc	0.00	0.00	105.04	172.00	33.00	0.94	112.43	9.91
Day 8	CD24Fc	0.00	0.36	71.59	20.45	0.00	0.66	0.00	0.00
Day 1	CD24Fc	0.00	7.38	90.76	21.03	17.80	3.18	5.85	4.05
Day 2	CD24Fc	0.00	0.00	50.25	20.29	53.70	0.79	115.41	10.60
Day 4	CD24Fc	0.00	0.00	30.12	18.82	26.40	2.73	397.68	8.31
Day 2	Placebo	1.67	0.00	73.34	138.95	31.10	2.90	988.77	2.44
Day 1	CD24Fc	13.22	32.19	404.26	1317.19	75.10	1.88	407.41	22.79
Day 2	CD24Fc	0.00	93.64	524.95	1233.54	66.30	3.94	113.51	18.36

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Time point	Treatment	Interleukin-10 (IL-10)	Interleukin-12 subunit p40 (IL-12p40)	Interleukin-15 (IL-15)	Interleukin-16 (IL-16)	Interleukin-1 alpha (IL-1a)	Interleukin-1 beta (IL-1b)	Interleukin-5 (IL-5)	Interleukin-6 (IL-6)
Day 4	CD24Fc	0.00	0.00	255.28	952.11	39.10	1.92	396.98	7.07
Day 1	Placebo	22.77	37178.56	1597.54	4882.12	771.30	227.72	7524.20	73.85
Day 2	Placebo	31.89	21647.52	1945.67	4466.37	454.60	148.97	2927.77	59.19
Day 4	Placebo	0.03	23032.62	1559.13	3638.09	476.30	118.74	3590.32	40.15
Day 1	CD24Fc	0.00	1491.20	132.89	234.19	80.80	12.00	0.00	4.76
Day 2	CD24Fc	0.00	4091.56	99.45	275.23	112.90	12.15	0.00	0.78
Day 4	CD24Fc	0.00	312.59	69.92	121.40	102.70	8.20	83.26	3.83
Day 1	Placebo	0.00	12.18	68.87	152.57	52.70	1.40	0.00	3.65
Day 2	Placebo	0.00	0.00	62.23	147.30	69.60	0.00	377.70	8.88
Day 4	Placebo	0.00	0.79	70.51	139.51	72.50	1.90	0.00	8.70
Day 1	CD24Fc	19.07	78.84	184.90	394.18	211.80	1.73	1209.78	37.07
Day 2	CD24Fc	0.00	31.71	79.91	243.93	126.90	8.02	284.37	17.26
Day15	CD24Fc	0.00	421.70	239.17	598.91	52.50	13.46	563.19	17.10
Day 1	Placebo	0.61	768.23	332.44	2270.59	611.60	89.91	1656.84	96.64
Day 2	Placebo	4.61	7973.43	632.57	2845.82	596.50	70.30	3226.78	36.03
Day 4	Placebo	32.38	3451.02	628.62	2064.34	518.70	95.12	2670.52	37.24
Day 1	CD24Fc	0.00	6700.21	1627.10	3963.42	181.90	74.39	2643.06	24.93
Day 2	CD24Fc	0.00	6805.71	1438.39	3551.34	145.40	80.75	2082.17	12.76
Day 4	CD24Fc	0.00	13685.95	923.52	3144.59	217.90	83.97	1950.27	12.66
Day 1	Placebo	57.75	4287.19	1302.02	2700.93	124.60	37.08	3993.91	11.68
Day 2	Placebo	25.62	17697.75	1352.06	2814.66	132.30	47.44	2752.12	12.29
Day 4	Placebo	28.56	19328.37	2644.53	6871.18	316.40	115.83	4201.80	14.05
Day 8	Placebo	5.97	13543.34	1402.82	3050.74	236.50	58.81	2658.04	10.78
Day 1	Placebo	2.70	1147.58	44.48	106.52	73.20	2.27	585.94	0.00
Day 2	Placebo	0.00	400.54	45.51	44.20	61.60	2.37	572.38	0.00
Day 4	Placebo	5.18	882.55	68.93	91.74	72.70	2.82	700.86	12.77
Day 8	Placebo	0.00	250.08	74.54	81.14	34.20	1.73	229.50	0.00
Day15	Placebo	0.00	90.02	81.88	119.01	35.00	0.97	0.00	2.06
Day 1	Placebo	0.00	2440.65	289.60	1209.38	62.50	13.67	692.24	0.00
Day 2	Placebo	16.07	1737.00	355.20	1778.69	92.80	11.01	1048.97	4.61
	Healthy Donors	0.89	110.57	408.35	606.70	10.92	0.90	272.89	5.56
	Healthy Donors	6.11	0.00	380.21	196.70	18.54	0.61	609.16	14.38
	Healthy Donors	5.29	36.10	243.74	23.40	13.20	0.00	414.93	16.46
	Healthy Donors	9.59	152.23	1694.47	2142.97	37.71	23.97	1476.23	40.58
	Healthy Donors	0.82	3.17	0.00	0.00	0.00	0.00	213.54	7.32
	Healthy Donors	1.67	0.00	0.00	0.00	0.00	0.00	993.26	11.72
	Healthy Donors	0.47	0.00	11.25	177.57	0.00	0.84	364.17	5.56
	Healthy Donors	1.84	74.42	384.33	2072.26	12.61	0.13	902.58	8.82
	Healthy Donors	2.29	2.50	64.55	289.43	15.84	0.00	836.45	4.62
	Healthy Donors	13.02	40.17	193.49	124.55	200.91	0.88	5272.42	84.67
	Healthy Donors	4.39	53.43	223.02	537.48	95.35	0.66	2140.58	50.69
	Healthy Donors	10.49	25.07	54.12	0.00	129.80	0.63	2850.94	42.03
	Healthy Donors	1.54	1.99	10.09	183.49	0.00	0.00	466.64	0.00
	Healthy Donors	0.00	21.76	0.00	0.00	0.00	0.00	0.00	0.00

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Time point	Treatment	Interleukin-10 (IL-10)	Interleukin-12 subunit p40 (IL-12p40)	Interleukin-15 (IL-15)	Interleukin-16 (IL-16)	Interleukin-1 alpha (IL-1a)	Interleukin-1 beta (IL-1b)	Interleukin-5 (IL-5)	Interleukin-6 (IL-6)
	Healthy Donors	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00
	Healthy Donors	0.00	103.39	275.57	1268.58	0.00	8.25	0.00	0.00
	Healthy Donors	1.55	0.00	0.00	171.11	0.00	1.05	0.00	0.00
	Healthy Donors	0.90	17.48	188.82	2009.51	0.00	0.32	193.87	0.00
	Healthy Donors	0.00	383.38	93.53	882.52	0.00	10.63	243.42	7.76
	Healthy Donors	0.52	0.00	10.00	237.42	25.83	1.70	0.00	4.99
	Healthy Donors	0.00	0.00	0.00	0.00	0.00	0.00	509.23	0.00
	Healthy Donors	0.00	1.25	0.00	0.00	0.00	0.00	272.40	0.00
	Healthy Donors	0.70	179.68	942.17	9316.17	255.23	24.62	1112.35	15.69
	Healthy Donors	7.08	798.03	660.17	3337.76	95.50	15.22	3552.43	49.12
	Healthy Donors	0.00	12.80	34.89	378.84	0.00	0.00	69.90	0.00

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Time point	Treatment	Soluble IL-6 receptor (IL-6sR)	Interleukin-7 (IL-7)	Interleukin-8 (IL-8)	Macrophage colony-stimulating factor (M-CSF)	C-X-C Motif Chemokine Ligand 9 (CXCL9; MIG)	C-C Motif Chemokine Ligand 3 (CCL3; MIP-1a)	C-C Motif Chemokine Ligand 4 (CCL4; MIP-1b)	C-C Motif Chemokine Ligand 15 (CCL15; MIP-1d)
Day 1	Placebo	2541.47	0.00	4.14	0.00	16.94	129.67	13.00	1254.90
Day 2	Placebo	3335.06	47.52	14.73	0.00	7.64	233.88	22.45	4104.30
Day 4	Placebo	2602.15	26.65	23.45	0.00	18.89	387.03	21.55	299.50
Day 8	Placebo	2478.02	163.39	48.25	0.00	30.10	459.27	30.90	2105.10
Day 1	Placebo	2809.77	172.51	21.93	0.00	0.00	28.66	53.75	4576.90
Day 2	Placebo	3083.93	67.44	16.60	0.00	30.04	45.24	56.23	4219.30
Day 4	Placebo	3106.32	5.58	10.89	0.00	5.54	29.91	60.76	4679.70
Day 1	CD24Fc	2785.28	29.55	0.03	0.00	17.96	26.45	10.81	2055.90
Day 2	CD24Fc	2891.71	2.15	0.00	0.00	4.86	18.42	10.29	1973.80
Day 4	CD24Fc	3989.19	135.85	8.08	0.00	5.71	42.82	23.76	6277.40
Day 1	Placebo	2621.07	6.77	1.17	0.00	15.43	47.09	18.74	1328.40
Day 2	Placebo	2573.31	0.00	0.72	0.00	25.01	41.43	23.69	1724.30
Day 4	Placebo	3132.98	61.02	9.73	0.00	13.17	23.60	22.79	1994.40
Day 8	Placebo	3449.81	39.53	5.58	0.00	5.54	94.44	58.57	1608.50
Day 1	CD24Fc	2471.04	0.00	0.00	0.00	25.06	215.10	22.38	2198.90
Day 2	CD24Fc	1905.90	0.00	0.81	0.00	22.68	152.94	13.52	1218.50
Day 4	CD24Fc	2590.94	13.00	2.67	0.00	22.97	195.81	23.11	1233.80
Day 8	CD24Fc	2399.09	5.02	0.00	0.00	8.60	133.38	22.13	377.60
Day 1	CD24Fc	2316.94	0.00	0.00	267.10	0.00	47.67	26.84	3870.50
Day 2	CD24Fc	2165.96	0.00	0.00	44.14	0.00	51.58	39.45	5321.00
Day 4	CD24Fc	2097.89	5.31	0.00	111.40	195.95	61.35	37.31	2318.40
Day 8	CD24Fc	2182.06	0.00	0.00	89.17	58.09	82.88	101.26	2064.90
Day 1	Placebo	2234.59	0.00	0.00	91.43	492.69	121.86	33.98	1861.90
Day 2	Placebo	2241.69	0.00	0.00	48.03	419.01	99.22	48.68	1544.30
Day 4	Placebo	898.48	0.27	0.00	129.60	249.44	101.88	43.46	1788.90
Day 8	Placebo	1080.89	6.69	0.00	0.00	37.80	41.74	76.82	108.90
Day 1	CD24Fc	2886.11	0.00	29.15	560.79	59.77	21.97	20.99	932.40
Day 2	CD24Fc	2382.04	0.00	0.00	720.73	0.00	21.29	18.57	1917.10
Day 4	CD24Fc	2524.17	0.00	0.00	252.56	45.62	27.82	24.46	945.50
Day 1	Placebo	2664.03	0.00	0.00	70.78	7.72	18.60	11.07	3124.40
Day 2	Placebo	2153.58	0.00	0.00	186.44	0.00	19.91	7.68	626.60
Day 4	Placebo	2053.29	0.00	0.00	230.57	0.00	19.50	12.97	1915.40
Day 1	CD24Fc	2440.25	1.20	0.00	115.46	6.38	32.73	35.52	869.10
Day 2	CD24Fc	2474.51	0.00	0.00	292.29	0.00	7.20	17.39	2776.90
Day 4	CD24Fc	2035.68	0.00	0.00	0.00	0.00	13.24	19.18	849.10
Day 8	CD24Fc	2339.47	0.00	0.00	27.34	11.03	24.09	33.03	842.00
Day 1	CD24Fc	2301.31	0.00	0.00	0.00	0.00	11.61	17.07	728.60
Day 2	CD24Fc	2767.73	0.00	0.00	0.00	0.00	11.68	17.32	1471.70
Day 4	CD24Fc	2354.02	0.20	0.00	134.22	2.57	8.76	13.03	661.40
Day 2	Placebo	1774.96	1.90	0.00	140.92	0.00	23.00	29.49	2545.90
Day 1	CD24Fc	2220.69	17.70	120.71	0.00	0.00	19.37	21.43	1060.90
Day 2	CD24Fc	3321.08	0.00	168.33	0.00	0.00	8.56	12.66	1116.50

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Time point	Treatment	Soluble IL-6 receptor (IL-6sR)	Interleukin-7 (IL-7)	Interleukin-8 (IL-8)	Macrophage colony-stimulating factor (M-CSF)	C-X-C Motif Chemokine Ligand 9 (CXCL9; MIG)	C-C Motif Chemokine Ligand 3 (CCL3; MIP-1a)	C-C Motif Chemokine Ligand 4 (CCL4; MIP-1b)	C-C Motif Chemokine Ligand 15 (CCL15; MIP-1d)
Day 4	CD24Fc	2479.81	0.00	55.65	24.47	0.00	20.82	23.06	1362.90
Day 1	Placebo	3773.12	129.76	361.18	5177.57	4352.43	662.83	51.75	51847.20
Day 2	Placebo	3417.72	33.22	387.85	2072.01	4940.86	428.79	34.17	27788.50
Day 4	Placebo	2362.03	95.65	249.22	1799.73	4694.05	672.03	38.25	44491.90
Day 1	CD24Fc	2308.57	0.00	0.00	5.40	43.10	18.51	30.04	2686.90
Day 2	CD24Fc	2606.61	0.00	0.00	6.72	80.85	26.14	16.12	9537.50
Day 4	CD24Fc	2912.73	0.04	0.00	7.25	45.13	18.78	31.37	2448.20
Day 1	Placebo	1900.17	0.00	0.00	110.88	0.00	4.50	14.01	3197.40
Day 2	Placebo	2086.75	8.39	0.00	54.35	0.84	3.47	11.44	702.50
Day 4	Placebo	2425.20	0.00	0.00	173.22	0.64	6.53	20.13	723.20
Day 1	CD24Fc	2265.89	52.76	55.17	0.00	97.03	14.45	51.40	5328.30
Day 2	CD24Fc	2055.71	9.39	12.05	0.00	25.83	36.39	61.25	1796.30
Day15	CD24Fc	2773.70	0.36	11.10	79.33	199.51	155.10	83.73	3639.80
Day 1	Placebo	2549.27	26.73	60.08	72.26	570.92	26.71	44.36	10581.70
Day 2	Placebo	2587.47	49.21	50.95	0.00	325.84	2.30	21.76	13403.40
Day 4	Placebo	2758.12	72.87	88.42	233.97	521.78	9.15	34.68	14929.60
Day 1	CD24Fc	2812.93	82.12	153.85	422.05	1241.49	344.53	36.55	13969.40
Day 2	CD24Fc	3048.03	11.14	62.80	425.29	840.59	422.33	14.91	37941.40
Day 4	CD24Fc	3149.08	38.24	129.80	721.95	1351.04	326.28	36.94	59747.70
Day 1	Placebo	2476.94	182.98	218.43	2142.73	679.38	245.74	71.61	19943.00
Day 2	Placebo	3011.33	134.27	148.09	2359.22	3082.49	513.67	67.89	26598.90
Day 4	Placebo	3259.70	180.27	218.67	4404.95	1098.19	331.51	86.20	47446.30
Day 8	Placebo	2734.89	96.49	176.09	783.85	819.96	257.76	113.24	23748.10
Day 1	Placebo	3291.55	3.22	0.00	349.80	178.18	77.95	24.70	21238.80
Day 2	Placebo	3024.38	0.00	0.00	0.00	91.84	94.03	39.53	8439.20
Day 4	Placebo	2751.91	8.06	0.00	165.12	151.81	180.96	108.68	15952.00
Day 8	Placebo	2489.04	0.00	0.00	0.00	85.26	110.43	60.03	29803.70
Day15	Placebo	3065.14	0.00	3.98	0.00	99.61	107.61	43.24	13205.10
Day 1	Placebo	3075.81	2.77	12.02	33.88	861.42	104.45	25.73	6232.20
Day 2	Placebo	2875.38	5.96	25.51	34.09	551.42	27.23	23.24	9051.40
	Healthy Donors	924.97	26.50	48.98	377.94	117.88	45.03	35.91	1649.93
	Healthy Donors	880.46	81.84	107.11	358.76	1.73	8.61	9.31	241.87
	Healthy Donors	1183.67	71.00	98.13	0.00	0.00	8.81	7.33	338.39
	Healthy Donors	870.17	128.82	251.12	0.00	28.12	53.58	21.38	1358.02
	Healthy Donors	876.14	32.16	15.80	140.30	0.00	4.58	10.39	189.23
	Healthy Donors	736.57	61.41	50.88	19.11	0.00	5.65	14.46	543.38
	Healthy Donors	879.22	0.00	15.55	37.23	3.14	12.05	32.45	185.35
	Healthy Donors	924.36	57.12	107.54	0.00	3.69	35.71	25.43	98.13
	Healthy Donors	445.54	48.49	58.11	135.13	0.00	0.00	27.18	0.00
	Healthy Donors	815.79	240.57	391.96	0.00	0.00	24.60	22.59	0.00
	Healthy Donors	891.47	104.09	208.17	0.00	15.27	61.48	9.48	279.15
	Healthy Donors	1128.42	127.86	315.47	61.40	0.00	3.43	58.69	3516.90
	Healthy Donors	1479.76	0.00	69.99	0.00	0.00	30.96	24.77	188.59
	Healthy Donors	872.89	0.00	0.00	0.00	0.00	4.12	15.21	784.58

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Time point	Treatment	Soluble IL-6 receptor (IL-6sR)	Interleukin-7 (IL-7)	Interleukin-8 (IL-8)	Macrophage colony-stimulating factor (M-CSF)	C-X-C Motif Chemokine Ligand 9 (CXCL9; MIG)	C-C Motif Chemokine Ligand 3 (CCL3; MIP-1a)	C-C Motif Chemokine Ligand 4 (CCL4; MIP-1b)	C-C Motif Chemokine Ligand 15 (CCL15; MIP-1d)
	Healthy Donors	706.76	0.00	0.00	0.00	5.71	0.00	2.05	254.75
	Healthy Donors	869.17	0.00	0.00	0.00	76.33	108.12	6.44	2222.22
	Healthy Donors	1252.18	0.00	72.26	0.00	14.49	0.95	6.12	283.42
	Healthy Donors	970.05	23.03	159.10	1429.42	102.73	17.85	21.67	548.15
	Healthy Donors	1260.67	17.41	58.89	39.12	96.04	26.30	7.81	1114.14
	Healthy Donors	1092.99	0.00	55.86	121.57	24.32	9.86	6.62	105.71
	Healthy Donors	1007.40	8.88	26.96	6.21	8.04	0.00	8.57	2346.87
	Healthy Donors	749.62	5.11	0.00	0.00	27.65	7.89	6.99	143.60
	Healthy Donors	1205.72	27.00	218.24	1130.81	47.08	87.70	17.94	2750.50
	Healthy Donors	934.42	122.46	285.51	387.87	434.56	240.63	29.83	5092.84
	Healthy Donors	1067.04	4.02	0.00	10.35	0.00	17.71	13.37	1115.47

Time point	Treatment	Platelet-Derived Growth Factor-BB (PDGF-BB)	C-C Motif Chemokine Ligand 5 (CCL5; RANTES)	Tissue Inhibitor Of Metalloproteinases-1 (TIMP-1)	Tissue Inhibitor Of Metalloproteinases-2 (TIMP-2)	Tumor Necrosis Factor Receptor Superfamily, Member 1A (TNFRSF1A; TNF RI)	Tumor Necrosis Factor Receptor Superfamily, Member 1B (TNFRSF1B; TNF RI)
Day 1	Placebo	1712.90	2662.73	14990.50	80339.00	2284.05	9067.98
Day 2	Placebo	10453.90	4940.83	49765.30	364467.90	2874.63	3032.09
Day 4	Placebo	1491.80	3457.51	3712.10	197.20	988.77	5978.24
Day 8	Placebo	22560.00	5469.92	46604.00	210741.40	2399.16	14437.05
Day 1	Placebo	20248.80	5851.85	7075.30	1146.70	1262.17	6946.09
Day 2	Placebo	19206.20	5818.02	18887.30	39420.20	1473.69	10053.14
Day 4	Placebo	15212.50	5322.38	533.50	224.00	1879.92	9997.14
Day 1	CD24Fc	1796.40	5187.36	1467.90	2755.50	1914.64	8347.28
Day 2	CD24Fc	5273.70	5401.22	19618.80	6713.80	2059.34	8432.03
Day 4	CD24Fc	10414.40	6708.13	7845.90	2431.40	2324.90	9290.60
Day 1	Placebo	6147.10	5637.95	25572.20	435.90	2122.44	10567.47
Day 2	Placebo	2047.80	4470.85	4913.50	4430.70	1850.34	4491.54
Day 4	Placebo	12469.30	6759.29	11551.20	503.20	1707.65	8336.14
Day 8	Placebo	9985.00	6914.88	45782.60	65254.60	1397.21	7236.14
Day 1	CD24Fc	1329.40	1784.06	10271.80	48435.50	213.73	5568.67
Day 2	CD24Fc	1200.10	1924.88	11861.70	693.50	11.87	4679.09
Day 4	CD24Fc	7941.70	4642.62	28583.60	18068.40	65.71	6043.11
Day 8	CD24Fc	6954.00	3937.45	27105.10	56096.10	0.00	7070.57
Day 1	CD24Fc	814.90	2818.80	49190.60	94836.70	3308.46	8564.99
Day 2	CD24Fc	1830.00	3617.18	25657.20	87438.40	3243.79	9988.40
Day 4	CD24Fc	2201.00	4902.98	32371.80	119201.20	2730.09	10919.83
Day 8	CD24Fc	3708.10	6814.33	71836.90	130696.10	3619.17	14657.63
Day 1	Placebo	1540.70	3580.72	15458.20	51039.80	2099.70	8175.95
Day 2	Placebo	517.30	1844.82	16979.80	68238.90	1876.45	9334.78
Day 4	Placebo	954.70	2366.34	19144.00	101605.90	1090.47	7217.97
Day 8	Placebo	468.00	3234.22	28576.70	67539.30	950.54	8047.54
Day 1	CD24Fc	3835.40	8861.67	33663.60	211024.50	3252.77	11150.23
Day 2	CD24Fc	2282.10	6944.81	53063.30	100413.30	3470.95	7289.87
Day 4	CD24Fc	814.50	5512.46	63469.30	76147.80	4656.48	7568.75
Day 1	Placebo	802.50	4142.84	68286.60	91581.90	7648.48	9640.21
Day 2	Placebo	929.30	3508.18	41984.60	80789.40	5077.43	8440.94
Day 4	Placebo	1785.20	5493.27	70972.30	96202.70	6929.25	10669.81
Day 1	CD24Fc	4669.50	6319.63	57444.50	75939.20	2731.93	13173.35
Day 2	CD24Fc	8869.50	9124.68	60155.90	128527.80	2506.61	13809.00
Day 4	CD24Fc	1839.70	3051.75	46402.80	69536.50	2707.99	10963.95
Day 8	CD24Fc	1296.70	2531.85	42035.20	99801.00	1837.32	12749.85
Day 1	CD24Fc	1097.80	4873.53	24600.30	110692.30	2241.93	9421.65
Day 2	CD24Fc	4051.00	5677.44	80163.00	93559.70	3930.34	12426.17
Day 4	CD24Fc	1014.80	2896.65	34622.80	75032.70	1071.14	4355.35
Day 2	Placebo	4383.90	5907.06	79694.10	88210.90	2153.32	5242.79
Day 1	CD24Fc	3990.30	4401.15	52891.30	95849.50	4206.30	11629.83
Day 2	CD24Fc	1617.10	2320.00	81483.50	210791.80	5721.40	21517.60

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Time point	Treatment	Platelet-Derived Growth Factor-BB (PDGF-BB)	C-C Motif Chemokine Ligand 5 (CCL5; RANTES)	Tissue Inhibitor Of Metalloproteinases-1 (TIMP-1)	Tissue Inhibitor Of Metalloproteinases-2 (TIMP-2)	Tumor Necrosis Factor Receptor Superfamily, Member 1A (TNFRSF1A; TNF RI)	Tumor Necrosis Factor Receptor Superfamily, Member 1B (TNFRSF1B; TNF RI)
Day 4	CD24Fc	1781.00	2637.90	33658.60	69731.00	3092.35	6344.70
Day 1	Placebo	22294.70	7943.34	77257.30	98779.20	16606.30	21050.80
Day 2	Placebo	19289.00	8000.49	63115.40	83648.00	10406.64	14463.86
Day 4	Placebo	25596.50	7421.00	67517.80	131694.40	11135.08	19547.59
Day 1	CD24Fc	2249.40	4776.96	58325.40	99065.10	4341.63	13676.10
Day 2	CD24Fc	6798.20	4376.98	45717.10	172048.70	4520.00	11281.50
Day 4	CD24Fc	2544.80	3265.93	50312.50	75939.50	2837.11	6972.59
Day 1	Placebo	4052.20	1790.83	58768.00	147179.10	1393.12	6284.92
Day 2	Placebo	6449.70	2413.88	43961.00	84587.30	1059.63	3918.37
Day 4	Placebo	15171.70	5017.50	62769.10	138164.20	1546.87	10814.97
Day 1	CD24Fc	21880.60	7262.22	94679.90	107856.90	2572.43	9774.89
Day 2	CD24Fc	15739.80	7461.52	89337.30	140213.70	1481.73	10659.60
Day15	CD24Fc	2482.30	6318.65	31783.70	138245.10	2456.20	10388.89
Day 1	Placebo	38955.70	6426.96	65730.80	110671.70	5943.50	6100.67
Day 2	Placebo	29482.30	7060.88	93207.00	138453.90	8329.50	10360.84
Day 4	Placebo	59806.20	9786.00	110978.70	82253.30	16021.25	16711.52
Day 1	CD24Fc	17690.90	8616.95	73330.30	109931.60	10248.99	18538.14
Day 2	CD24Fc	8502.80	6484.37	54019.10	125514.50	7023.84	10738.17
Day 4	CD24Fc	23089.70	8607.59	89766.70	177149.00	8479.57	14029.47
Day 1	Placebo	10164.80	5447.75	112901.10	109930.20	11854.77	12375.65
Day 2	Placebo	14858.70	4730.92	97197.10	171049.80	14142.50	14675.06
Day 4	Placebo	8978.20	5663.67	113349.20	177335.70	15238.96	13485.05
Day 8	Placebo	16956.90	8116.78	110608.40	230518.80	8167.71	9987.45
Day 1	Placebo	14932.40	7820.00	84977.60	301168.80	12279.64	13920.26
Day 2	Placebo	9062.90	5993.27	98546.10	246127.00	11834.52	14630.67
Day 4	Placebo	6583.80	4159.20	126443.30	162871.40	12864.00	15020.67
Day 8	Placebo	3080.10	1648.78	119555.50	254994.60	12156.74	13396.67
Day15	Placebo	3636.70	3457.41	125005.80	191958.80	12072.96	17847.34
Day 1	Placebo	11103.50	4980.53	49911.60	197266.10	1765.74	12533.47
Day 2	Placebo	28342.70	7828.95	100563.20	235727.00	1940.20	9816.69
	Healthy Donors	3960.89	6085.31	38240.32	17368.84	2493.56	10451.86
	Healthy Donors	3381.81	4688.41	29705.19	93543.41	993.51	10128.32
	Healthy Donors	8761.60	6255.91	70391.10	68938.17	3619.28	14003.77
	Healthy Donors	13508.09	4992.83	65498.19	132306.88	3194.82	12013.94
	Healthy Donors	9198.63	3737.55	5900.02	8019.74	1724.98	9923.60
	Healthy Donors	21105.37	6468.69	7565.07	20337.87	1327.34	12997.18
	Healthy Donors	2949.02	4210.47	3998.44	3578.76	413.50	8806.99
	Healthy Donors	11620.35	5414.32	5080.38	12263.26	1675.20	19996.01
	Healthy Donors	4968.79	7055.69	4321.89	13786.96	612.64	10638.58
	Healthy Donors	22304.68	5759.16	3402.41	18092.45	938.61	13702.25
	Healthy Donors	28608.20	5128.12	7229.69	16793.00	1537.08	10663.17
	Healthy Donors	17908.57	8664.60	4440.02	16821.48	828.61	9714.93
	Healthy Donors	8798.81	8565.46	13761.00	25174.50	2790.58	19139.29
	Healthy Donors	2300.38	3043.60	4670.48	23555.51	500.16	13407.24

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Time point	Treatment	Platelet-Derived Growth Factor-BB (PDGF-BB)	C-C Motif Chemokine Ligand 5 (CCL5; RANTES)	Tissue Inhibitor Of Metalloproteinases-1 (TIMP-1)	Tissue Inhibitor Of Metalloproteinases-2 (TIMP-2)	Tumor Necrosis Factor Receptor Superfamily, Member 1A (TNFRSF1A; TNF RI)	Tumor Necrosis Factor Receptor Superfamily, Member 1B (TNFRSF1B; TNF RI)
Healthy Donors		54.03	2074.96	2605.46	16415.52	360.17	7992.47
Healthy Donors		1414.00	1264.90	4050.64	27568.99	2030.96	11209.36
Healthy Donors		1505.60	2550.17	6071.31	19949.35	775.19	12858.78
Healthy Donors		5139.06	2664.92	9992.37	32729.47	753.52	15275.87
Healthy Donors		5205.05	3787.68	6995.33	52357.71	2063.17	14296.43
Healthy Donors		5618.89	2003.56	3942.30	22217.61	763.20	15905.40
Healthy Donors		3239.22	4499.76	3787.37	25664.91	542.89	10306.04
Healthy Donors		2100.41	4233.21	6606.73	9375.56	442.40	12187.09
Healthy Donors		5131.01	2532.91	10255.04	31377.54	1377.20	11006.67
Healthy Donors		8512.48	5040.65	11024.63	24748.87	2122.91	19722.80
Healthy Donors		4864.90	2403.55	5014.03	31597.87	496.04	11622.77

Table S5. Centrality ranks of filtered and weighted correlations.

Cytokine markers	HD	D1	Placebo	CD24Fc	var	Mean
IL-5	1	1	1	9	16	3
MIP-1d	17	2	12	1	60-67	8
IL-1b	11	3	2	2	19	4-5
IL-8	2	4	8	17	44-25	7-75
G-CSF	20	5	9	4	53-67	9-5
IL-16	15	6	4	6	24-25	7-75
MIG	16	7	17	5	37-58	11-25
IL-4	10	8	6	3	8-92	6-75
MCSF	24	9	13	16	40-33	15-5
IL-12p40	14	10	5	7	15-33	9
IL-15	13	11	7	8	7-58	9-75
IL-1a	7	12	11	12	5-67	10-5
TNF RI	25	13	14	14	32-33	16-5
I-309	8	14	3	11	22	9
MIP-1a	12	15	21	13	16-25	15-25
BLC (CXCL13)	27	16	25	15	37-58	20-75
TNF RII	22	17	18	21	5-67	19-5
IL-6sR	30	18	28	22	30-33	24-5
IL-7	5	19	19	24	66-92	16-75
MIP-1b	19	20	27	30	28-67	24
IL-6	6	21	20	28	84-92	18-75
PDGF-BB	9	21	22	18	35	17-5
RANTES	18	23	23	19	6-92	20-75
GM-CSF	4	24	16	25	94-25	17-25
TIMP-1	23	25	24	20	4-67	23
IL-10	3	26	15	26	120-33	17-5
Eotaxin-2 (CCL24)	30	27	30	30	2-25	29-25
ICAM-1	30	28	26	23	8-92	26-75
Eotaxin (CCL11)	26	29	10	10	103-58	18-75
TIMP-2	21	30	29	27	16-25	26-75

HD, Healthy donor; D1, baseline COVID-19 patients; Var, variance.

Centrality scores ranked from highest (1, red) to lowest (30, blue). Variance and means calculated based on rank.

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Table S6. Cytokine concentrations from plasma samples (pg/mL), as measured by Luminex.

Sample Description	time point	IFN γ	IL-1Ra	IL-2	IL-12p40	IL-13	MCP-1	TNF α
COVID-19 patient	D0	1.22	13.07	0	59.3	3.44	325.61	73.72
COVID-19 patient	D1	0.91	10.42	0	46.81	8.49	306.43	69.88
COVID-19 patient	D4	0.85	23.88	0.08	38.36	12.82	186.64	71.28
COVID-19 patient	D8	0.29	22.07	0	44	13.84	191.45	82.08
COVID-19 patient	D0	0.48	8.09	0	63.43	7.32	83.25	43.19
COVID-19 patient	D1	1.01	10.42	0.18	111.96	26.73	112.36	63.59
COVID-19 patient	D4	0.06	7.47	0	60.68	4.82	109.11	48.84
COVID-19 patient	D0	3.55	24.42	0.81	109.3	70.43	188.98	64.99
COVID-19 patient	D1	2.64	15.17	0.53	87.9	53.82	143.75	55.87
COVID-19 patient	D4	1.96	14.94	0.41	82.5	62.95	123.97	59.03
COVID-19 patient	D0	0.98	8.82	0.04	60.68	16.8	254.19	14.91
COVID-19 patient	D1	1.13	6.58	0.06	71.64	9.62	232.21	15.63
COVID-19 patient	D4	0.19	4.38	0	31.24	14.84	59.14	11.62
COVID-19 patient	D8	0.66	14.59	0.04	41.19	27.58	52.6	19.62
COVID-19 patient	D0	1.72	16.64	0.53	103.98	20.55	170.63	46.72
COVID-19 patient	D1	1.22	12.95	0.41	82.5	11.78	149.28	37.16
COVID-19 patient	D4	0.6	10.3	0.24	53.77	8.49	122.47	31.11
COVID-19 patient	D8	0.38	16.7	0.16	49.6	8.49	147.19	29.68
COVID-19 patient	D0	0.63	20.21	0	115.94	0	264.77	92.84
COVID-19 patient	D1	0.1	12.26	0	74.37	0	283.46	89.37
COVID-19 patient	D4	0.51	10.19	0.08	41.19	15.83	202.11	72.67
COVID-19 patient	D8	0.29	23.27	0.2	55.16	12.82	174.03	74.07
COVID-19 patient	D0	3.58	30.24	0.53	126.5	35.78	277.08	71.28
COVID-19 patient	D1	1.38	7.98	0.12	74.37	8.49	251.69	51.3
COVID-19 patient	D4	0	2.87	0	21.09	3.44	126.73	28.25
COVID-19 patient	D8	0	3.78	0	18.14	0	87.56	28.25
COVID-19 patient	D0	9.19	3.08	1.53	63.43	135.35	111.98	124.62
COVID-19 patient	D1	14.35	4.76	2.67	63.43	224.15	107.05	149.7
COVID-19 patient	D4	34.26	11.8	17.06	94.62	517.04	116.87	403.53
COVID-19 patient	D0	0.85	4.54	0.16	44	17.76	172.2	22.87
COVID-19 patient	D1	0.6	4	0.12	53.77	23.25	155.38	30.4
COVID-19 patient	D4	0.38	5.14	0	41.19	12.82	156.21	27.54
COVID-19 patient	D0	1.16	6.86	0.04	44	0	275.64	67.08
COVID-19 patient	D1	0.22	3.94	0	26.92	0	86.91	28.97
COVID-19 patient	D4	0.1	3.3	0	12.15	0	157.46	37.87
COVID-19 patient	D8	0.03	2.39	0	26.92	0	249.52	43.19
COVID-19 patient	D0	2.06	15.52	0	59.3	24.13	140.6	23.23
COVID-19 patient	D1	0.73	16.52	0.04	44	12.82	74.46	12.35
COVID-19 patient	D4	1.87	27.65	0.12	32.67	32.57	89.11	16.72
COVID-19 patient	D0	0.54	1.31	0	46.81	13.84	118.75	16.72
COVID-19 patient	D1	0.35	1.82	0	32.67	10.71	105.57	22.15
COVID-19 patient	D4	0.22	1.82	0	15.16	3.44	114.43	24.67
COVID-19 patient	D0	1.07	10.53	0.49	56.54	6.11	389.01	62.19
COVID-19 patient	D1	0.22	4.98	0.08	29.8	0	247.09	28.97

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COVID-19 patient	D4	0.73	6.86	0.75	44	18.7	204.55	38.94
COVID-19 patient	D0	27.23	38.71	15.52	127.82	42.01	417.7	13.81
COVID-19 patient	D1	22.24	28.76	15.2	105.31	43.53	392.58	17.09
COVID-19 patient	D4	9.25	13.24	4.35	42.6	22.36	199.27	9.41
COVID-19 patient	D0	0.41	11.68	0.92	45.4	9.62	260.8	17.09
COVID-19 patient	D1	0.45	9.28	0.88	38.36	12.82	166.17	6.07
COVID-19 patient	D4	0.98	17.59	2.2	66.17	6.11	236.62	11.98
COVID-19 patient	D0	1.16	2.13	0	4.36	37.36	147.73	21.79
COVID-19 patient	D1	0.29	2.29	0	0	17.76	138.1	13.08
COVID-19 patient	D0	0.29	1.82	0	2.72	0	187.44	11.62
COVID-19 patient	D1	9.9	30.48	5.67	68.91	6.11	76.4	21.43
COVID-19 patient	D4	12.32	56.02	9.1	74.37	3.44	81.84	27.89
COVID-19 patient	D15	2.58	25.09	0.66	59.3	4.82	200.28	33.25
COVID-19 patient	D0	236.42	759.93	289.29	10882.88	1943.64	463.22	1704.05
COVID-19 patient	D1	347.46	1199.21	461.36	16632.73	3065.34	454.3	3334.43
COVID-19 patient	D4	198.99	596.02	235.94	8947.27	1657.59	221.17	1668.81
COVID-19 patient	D0	2.61	11.22	1.55	26.92	12.82	236.42	28.97
COVID-19 patient	D1	35.76	75.5	61.75	32.67	14.84	112	18.18
COVID-19 patient	D4	108.81	197.52	145.81	79.79	17.76	189.04	25.03
COVID-19 patient	D0	1.53	16.41	0.88	38.36	25.87	161.79	37.87
COVID-19 patient	D1	0.79	8.71	1.09	25.47	30.93	101.62	25.39
COVID-19 patient	D4	0.48	11.16	1.57	26.92	23.25	76.16	25.03
COVID-19 patient	D8	0.35	12.32	0.28	19.62	23.25	155.09	32.54
COVID-19 patient	D0	17.44	15.99	3.6	60.68	8.49	151.27	38.23
COVID-19 patient	D1	17.26	15.88	3.73	55.16	3.44	154.1	35.39
COVID-19 patient	D4	21.59	62.11	2.82	44	0	126.04	76.85
COVID-19 patient	D8	3.52	18.95	0.7	22.56	0	101.39	62.19
COVID-19 patient	D15	1.16	42.63	0.28	35.52	18.7	107.17	87.98
COVID-19 patient	D0	3.86	4.05	0	13.66	35.78	54.55	35.39
COVID-19 patient	D1	1.72	3.4	0	9.08	17.76	52.82	22.51
Non-COVID-19 control		0.41	2.03	0	53.77	0	145.24	28.25
Non-COVID-19 control		9.84	14.47	5.81	66.17	135.35	88.22	68.83
Non-COVID-19 control		0.29	1.51	0	49.6	8.49	165.32	13.81
Non-COVID-19 control		0.1	6.13	0	24.02	3.44	180.28	19.62
Non-COVID-19 control		1.72	9.33	0.62	98.63	48.01	188.74	45.31
Non-COVID-19 control		3.58	53.93	10.46	101.31	8.49	134.04	21.07
Non-COVID-19 control		1.84	6.47	0.18	75.72	46.52	182.06	44.95
Non-COVID-19 control		0.79	12.14	0.14	29.8	16.8	103.61	25.39
Non-COVID-19 control		0.32	1.21	0	60.68	17.76	90.34	5.69
Non-COVID-19 control		1.04	21.05	1.8	41.19	15.83	92.5	12.35
Non-COVID-19 control		0.6	12.38	0	91.93	29.27	130.64	16
Non-COVID-19 control		3.64	27.35	1.22	85.2	30.93	159.25	32.54
Non-COVID-19 control		2.82	5.69	0.7	156.61	88.65	107.47	69.88
Non-COVID-19 control		5.76	9.39	3.75	85.2	103.55	124.05	62.19
Non-COVID-19 control		6.12	2.13	3.21	111.96	146.1	132.05	85.9
Non-COVID-19 control		1.41	5.19	0.62	77.08	62.26	59.27	21.07
Non-COVID-19 control		17.73	34.83	16.38	447.81	312.91	101.56	187

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Non-COVID-19 control	0.48	2.13	0	87.9	4.82	131.76	4.19
Non-COVID-19 control	0.41	3.73	0	220.97	6.11	86.95	46.01
Non-COVID-19 control	0.41	2.34	0	97.3	8.49	263.48	41.77
Non-COVID-19 control	0.48	1.31	0	21.09	0	147.42	19.26
Non-COVID-19 control	4.67	111.57	8.06	265.35	168.68	286.82	51.65
Non-COVID-19 control	156.21	98.79	44.13	677.79	2529.18	213.04	1020.33