



Uncovering the Pathology of Rheumatoid Arthritis With Single Cell Immunoprofiling

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Supplemental Table 3. Identified mass cytometry populations with proportion of cells from each disease cohort and on tailed FDR q value.

Cell type	mass cytometry cluster	# Cells	Cells from OA (%)	Cells from leukocyte-poor RA (%)	Cells from leukocyte-rich RA (%)	One-sided FDR q value
Fibroblast	THY1 ⁻ Cadherin-11 ⁻	4,333	48.3	45.7	6.0	1.00
	THY1 ⁻ Cadherin-11 ⁺	3,752	55.8	40.9	3.3	1.00
	THY1 ⁻ CD34 ⁺ HLA-DR ^{hi}	1,474	42.5	44.2	13.3	1.00
	THY1 ⁻ CD34 ⁻ HLA-DR ^{hi}	4,171	50.2	28.3	21.5	1.00
	THY1 ⁺ CD34 ⁻ HLA-DR ^{hi}	2,577	7.1	9.4	83.4	5.8E-04
	THY1 ⁺ CD34 ⁻ HLA-DR ^{lo}	3,794	38.1	38.6	23.3	1.00
	THY1 ⁺ CD34 ⁺ HLA-DR ^{lo}	3,514	52.0	40.9	7.1	1.00
	THY1 ⁺ CD34 ⁺ HLA-DR ^{hi}	1,546	9.8	10.2	80.0	1.2E-03
Monocyte	CD11c ⁻	2,801	58.0	33.4	8.6	1.00
	CD11c ⁺ CCR2 ⁺	5,602	32.6	24.2	43.2	0.72
	CD11c ⁺ CD38 ⁻	1,313	37.0	54.8	8.2	1.00
	CD11c ⁺ CD38 ⁻ CD64 ⁺	1,031	37.9	43.7	18.3	1.00
	CD11c ⁺ CD38 ⁺	4,551	20.0	13.1	66.9	9.5E-04
T cell	CD4 ⁻ CD8 ⁻	2,475	44.6	34.5	20.9	1.00
	CD4 ⁺ CCR2 ⁺	4,093	51.7	28.7	19.6	1.00
	CD4 ⁺ HLA-DR ⁺	1,178	29.3	62.3	8.4	1.00
	CD4 ⁺ PD-1 ⁺ ICOS ⁻	2,368	33.7	37.1	29.1	1.00
	CD4 ⁺ PD-1 ⁺ ICOS ⁺	3,138	22.9	28.6	48.5	1.7E-03
	CD8 ⁺ PD-1 ⁻ HLA-DR ⁻	2,535	46.1	31.6	22.3	1.00
	CD8 ⁺ PD-1 ⁻ HLA-DR ⁺	400	42.3	35.5	22.3	1.00
	CD8 ⁺ PD-1 ⁺ HLA-DR ⁻	2,710	40.0	29.3	30.8	1.00
CD8 ⁺ PD-1 ⁺ HLA-DR ⁺	1,088	9.8	9.4	80.8	9.5E-04	
B cell	CD38 ⁺ CD20 ⁻ IgM ⁻ IgD ⁻	770	3.6	6.5	89.9	0.04
	CD38 ⁺ CD20 ⁻ IgM ⁺ HLA-DR ⁺	220	1.8	5.5	92.7	0.04
	IgM ⁻ IgD ⁻ HLA-DR ⁻	379	42.0	39.1	19.0	1.00
	CD38 ⁺ HLA-DR ⁺⁺ CD20 ⁻ CD11c ⁺	550	16.7	18.2	65.1	1.00
	IgM ⁻ IgD ⁻ HLA-DR ⁺⁺ CD20 ⁺ CD11c ⁺	771	1.0	6.6	92.3	0.01
	IgM ⁻ IgD ⁻ HLA-DR ⁺	1,774	15.7	25.3	59.0	1.00
	IgA ⁺ IgM ⁻ IgD ⁻	336	20.2	11.0	68.8	1.00
	IgM ⁺ IgD ⁻	1,126	18.7	22.6	58.8	1.00
	IgM ⁺ IgD ⁺ CD11c ⁻	1,762	5.6	7.3	87.2	0.05
	IgM ⁺ IgD ⁺ CD11c ⁺	491	8.8	7.5	83.7	0.69