

Supplemental Table 2: Quality Control Metrics of Single Cell RNA Sequencing

Patient	Tissue	Estimated Number of Cells	Mean Reads per Cell	Median Genes per Cell	Number of Reads	Valid Barcodes
UV031	eye	1,903	399,252	2,191	759,777,394	88.60%
UV031	PBMC	7,156	68,629	1,550	491,109,429	90.20%
UV150	eye	4,606	105,201	1,635	484,559,710	91.50%
UV150	PBMC	5,957	83,144	1,766	495,289,818	91.20%
UV170	eye	2,828	147,433	1,514	416,941,452	92.20%
UV170	PBMC	6,871	71,363	1,613	490,339,201	91.50%
UV174	eye	1,786	158,534	1,629	283,142,294	93.20%
UV174	PBMC	5,762	67,863	1,708	391,026,903	90.80%

Patient	Tissue	Sequencing Saturation	Q30 Bases in Barcode	Q30 Bases in RNA Read	Q30 Bases in RNA Read 2	Q30 Bases in UMI
UV031	eye	95.10%	95.40%	93.30%	91.40%	94.80%
UV031	PBMC	87.80%	94.40%	87.20%	89.30%	93.90%
UV150	eye	90.20%	94.20%	87.00%	88.40%	93.70%
UV150	PBMC	88.20%	94.30%	87.10%	88.60%	93.90%
UV170	eye	93.70%	96.90%	85.30%	92.70%	96.50%
UV170	PBMC	87.70%	96.90%	88.30%	91.50%	96.60%
UV174	eye	90.90%	97.00%	88.60%	92.30%	96.70%
UV174	PBMC	84.80%	96.90%	88.40%	92.70%	96.60%

Patient	Tissue	Reads Mapped to Genome	Reads Mapped Confidently to Genome	Reads Mapped Confidently to Intergenic Regions	Reads Mapped Confidently to Intronic Regions	Reads Mapped Confidently to Exonic Regions
UV031	eye	91.10%	78.10%	7.20%	11.80%	61.60%
UV031	PBMC	91.50%	82.80%	6.30%	7.60%	70.80%
UV150	eye	91.20%	84.10%	5.50%	6.30%	74.40%
UV150	PBMC	91.40%	83.80%	5.60%	6.70%	73.70%
UV170	eye	91.70%	86.00%	5.90%	6.00%	76.10%
UV170	PBMC	90.70%	83.40%	5.60%	6.80%	73.40%
UV174	eye	91.40%	86.80%	4.90%	6.00%	77.80%
UV174	PBMC	90.90%	83.00%	5.90%	6.80%	72.20%

Patient	Tissue	Reads Mapped Confidently to Transcriptome	Reads Mapped Antisense to Gene	Fraction Reads in Cells	Total Genes Detected	Median UMI Counts per Cell
UV031	eye	54.00%	5.40%	90.50%	19,697	6,068
UV031	PBMC	64.50%	3.50%	96.90%	20,078	4,426
UV150	eye	69.00%	3.00%	94.30%	19,126	4,693
UV150	PBMC	68.00%	3.30%	97.20%	19,955	5,514
UV170	eye	71.30%	2.60%	93.80%	18,177	4,181
UV170	PBMC	68.20%	3.10%	95.40%	20,081	4,781
UV174	eye	72.90%	2.50%	93.90%	18,022	5,084
UV174	PBMC	66.70%	3.10%	94.60%	19,824	5,650