

Table E3: Cellular and Molecular Correlations (Pearson coefficient) with Disease Activity (SCORAD) in Lesional AD skin

Variable (mRNA in black; Cell counts in blue)	R (Extrinsic)	p-value (Extrinsic)	n	R (Intrinsic)	p-value (Intrinsic)	n
SCORAD	1.00	0.00	33	1.00	0.00	9
log(IgE)	0.76	0.00	33	0.11	0.77	9
TRAIL	0.68	0.07	8	0.75	0.05	7
IL-21	0.67	0.07	8	-0.19	0.68	7
IL-4	0.67	0.07	8	0.65	0.12	7
S100A12	0.63	0.09	8	0.75	0.05	7
IL-19	0.62	0.10	8	0.21	0.65	7
CXCL9	0.58	0.13	8	-0.16	0.73	7
IFNa	0.57	0.14	8	0.81	0.03	7
CXCL11	0.56	0.15	8	-0.08	0.86	7
IgE	0.52	0.00	33	0.22	0.57	9
OX40L	0.44	0.28	8	-0.32	0.48	7
IL-9	0.43	0.29	8	-0.37	0.42	7
MMP12	0.39	0.06	24	0.66	0.07	8
TGM3	0.39	0.15	15	0.47	0.28	7
S100A9	0.38	0.35	8	-0.05	0.91	7
IL-5	0.37	0.07	25	0.02	0.96	9
MX1	0.36	0.17	16	-0.11	0.77	9
CCL20	0.36	0.38	8	0.68	0.10	7
IL-20	0.35	0.40	8	0.26	0.57	7
Elafin	0.32	0.13	23	0.42	0.30	8
IL-17A	0.32	0.14	23	-0.27	0.48	9
TRAIL	0.31	0.32	12	0.64	0.24	5
S100A8	0.31	0.27	15	-0.03	0.94	9
CD8	0.30	0.34	12	0.71	0.18	5
CD206	0.30	0.21	19	-0.69	0.20	5
IL-22	0.30	0.26	16	-0.32	0.40	9
TGM1	0.30	0.18	22	0.04	0.92	9
IL-32	0.27	0.51	8	0.20	0.67	7
CCL2	0.26	0.39	13	0.17	0.68	8
CXCL10	0.25	0.48	10	-0.08	0.85	8
IL-8	0.25	0.27	22	-0.25	0.55	8
OX40L	0.24	0.46	12	0.01	0.98	5
IL-31	0.23	0.39	16	-0.36	0.34	9
CCL22	0.22	0.44	15	-0.06	0.88	9
IVL	0.20	0.67	7	-	-	-

Variable (mRNA in black; Cell counts in blue)	R (Extrinsic)	p-value (Extrinsic)	n	R (Intrinsic)	p-value (Intrinsic)	n
BDCA-2	0.19	0.71	6	0.74	0.26	4
K16	0.17	0.42	25	-0.17	0.66	9
Epidermal Thickness	0.10	0.65	24	-0.41	0.49	5
S100A7	0.09	0.76	13	0.01	0.98	9
IL-10	0.09	0.68	25	0.43	0.24	9
CD1a	0.08	0.72	21	0.98	0.00	5
CD11c	0.08	0.71	24	-0.41	0.49	5
Thickness-ST	0.08	0.71	24	-0.24	0.70	5
CD3	0.07	0.75	24	0.13	0.83	5
CCL17	0.07	0.80	16	-0.03	0.93	9
CCL11	0.06	0.81	16	-0.31	0.42	9
CCL13	0.06	0.84	15	0.01	0.99	8
FcER1	0.04	0.84	24	0.49	0.40	5
CDSN	0.04	0.85	23	0.27	0.48	9
IL-1B	0.03	0.90	17	0.69	0.08	7
CD83	-0.02	0.93	18	-0.30	0.62	5
Ki67	-0.03	0.90	24	-0.27	0.67	5
CCL18	-0.03	0.88	24	-0.29	0.45	9
IFN-g	-0.04	0.88	22	-0.21	0.59	9
TSLPR	-0.06	0.78	22	0.29	0.49	8
FOXP3	-0.08	0.84	9	-0.37	0.47	6
IL-12p35	-0.10	0.63	24	-0.04	0.95	5
IL-33	-0.11	0.80	8	0.14	0.77	7
LCN2	-0.11	0.70	15	0.34	0.42	8
IL-23p19	-0.11	0.60	25	0.00	1.00	9
CCL26	-0.12	0.77	8	-0.23	0.62	7
CD1b	-0.13	0.65	15	-	-	-
CX3CL1	-0.13	0.64	15	0.72	0.04	8
IL-13	-0.14	0.54	23	0.41	0.27	9
Tryptase	-0.19	0.57	11	-0.68	0.21	5
CD1c	-0.19	0.49	15	-0.61	0.27	5
CCL5	-0.21	0.40	18	0.12	0.78	8
MBP	-0.22	0.52	11	-0.27	0.49	9
IL-23p40	-0.23	0.62	7	-	-	-
IL-25	-0.27	0.52	8	-	-	-
IL-23p40	-0.28	0.17	25	-0.27	0.49	9
Filaggrin	-0.31	0.45	8	0.72	0.07	7

Variable (mRNA in black; Cell counts in blue)	R (Extrinsic)	p-value (Extrinsic)	n	R (Intrinsic)	p-value (Intrinsic)	n
PPL	-0.44	0.09	16	-0.58	0.10	9
DC-LAMP	-0.56	0.12	9	-0.62	0.57	3
Loricrin	-0.59	0.02	16	-0.04	0.91	9
Neutrophil Elastase	-0.64	0.25	5	-0.12	0.82	6