

Figure E1

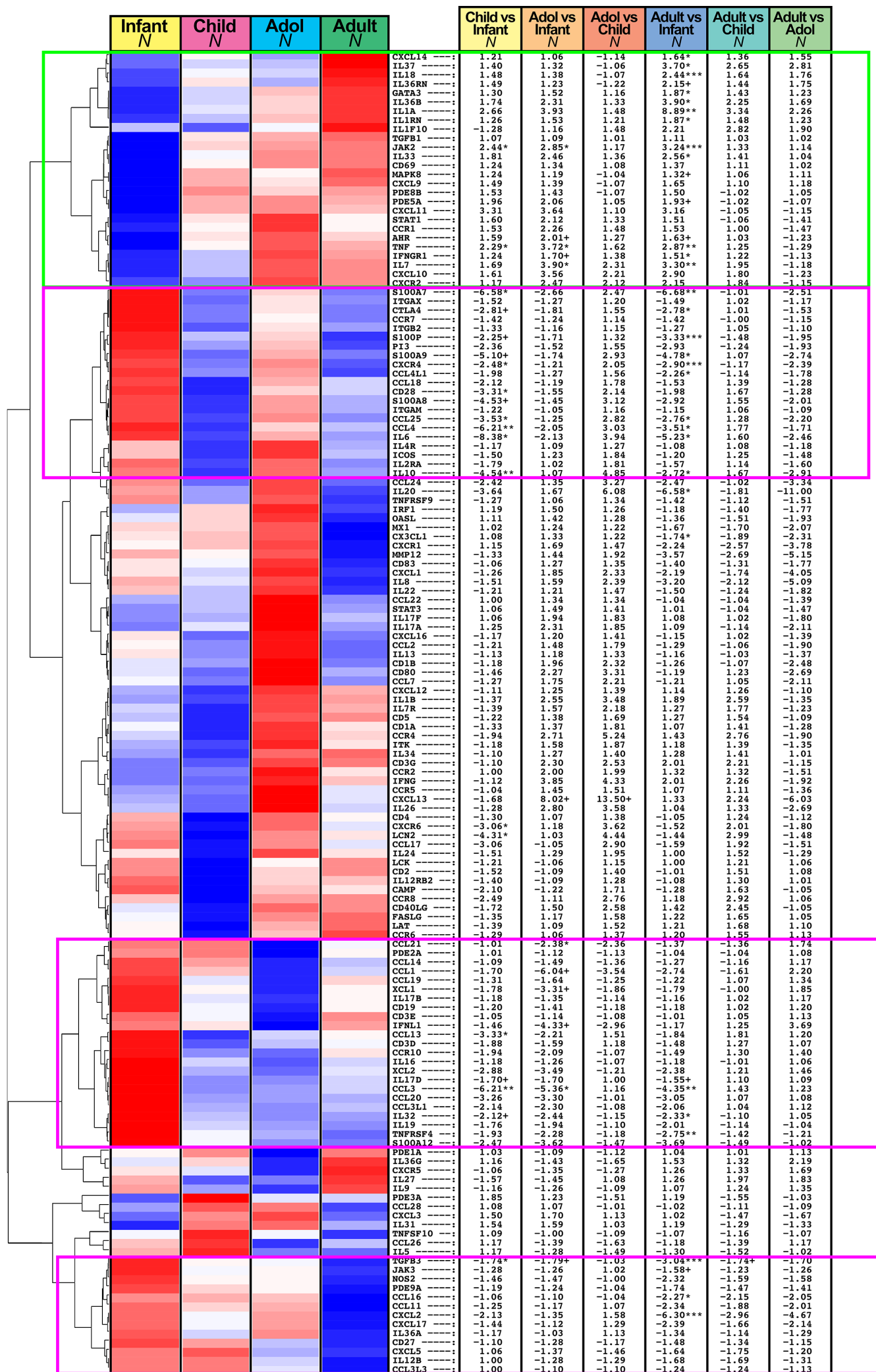


Figure E2

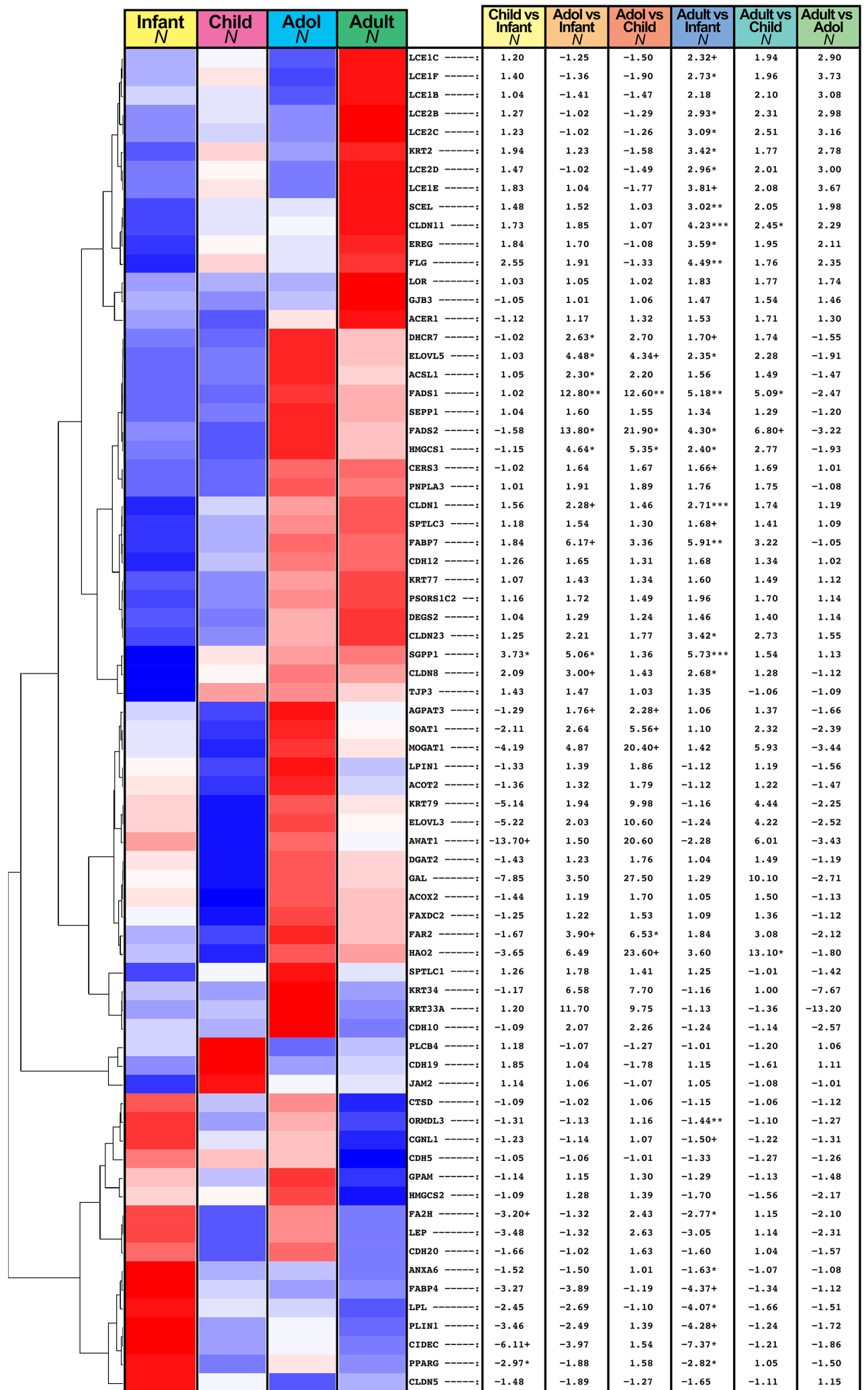
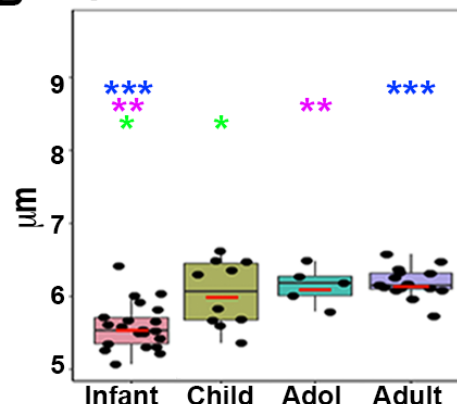
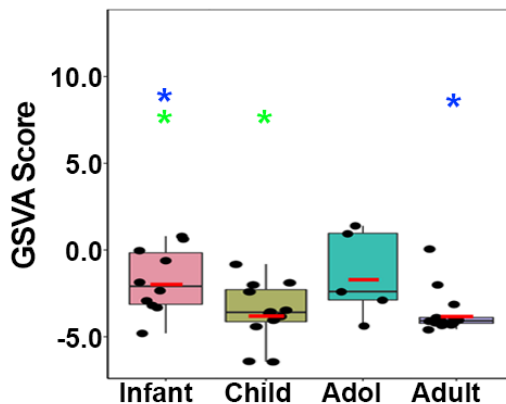


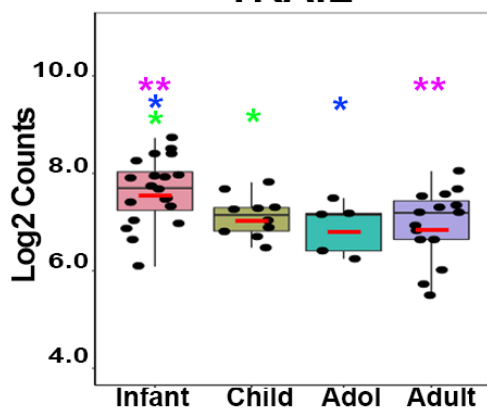


Figure E3

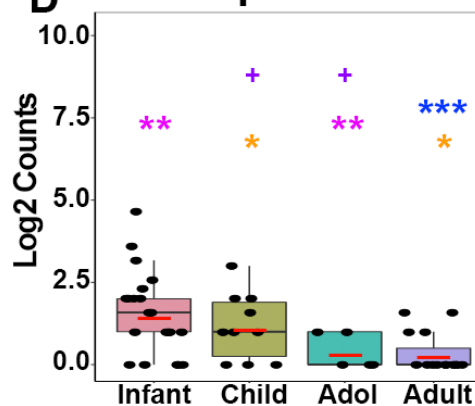
**A** GSVA Th17-Related Genes **B** Epidermal Thickness



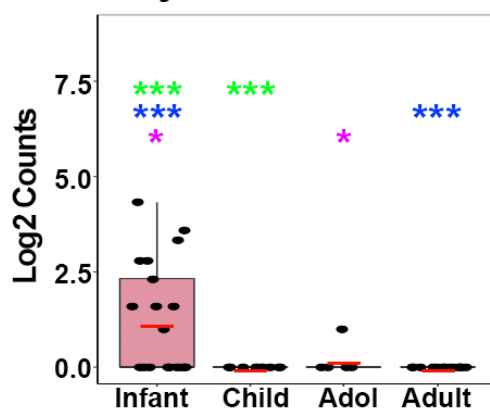
**C** TRAIL



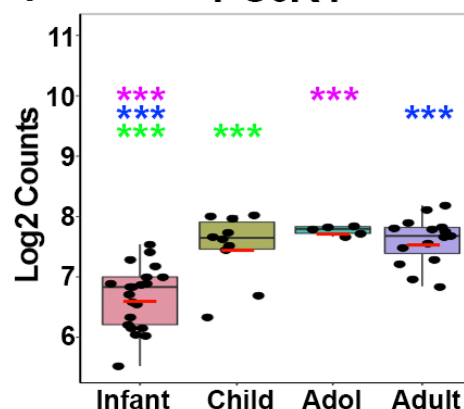
**D** Neutrophil Elastase



**E** Major Basic Protein



**F** FC<sub>ε</sub>R1



# Figure E4

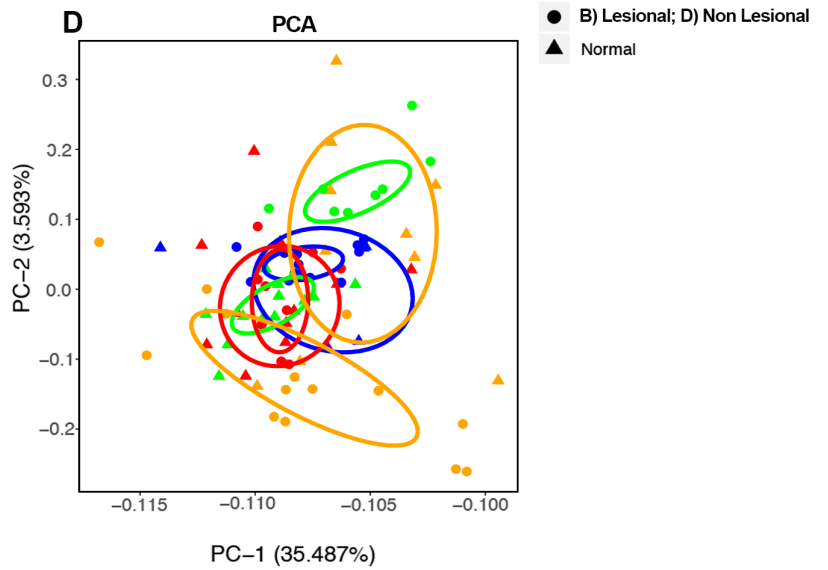
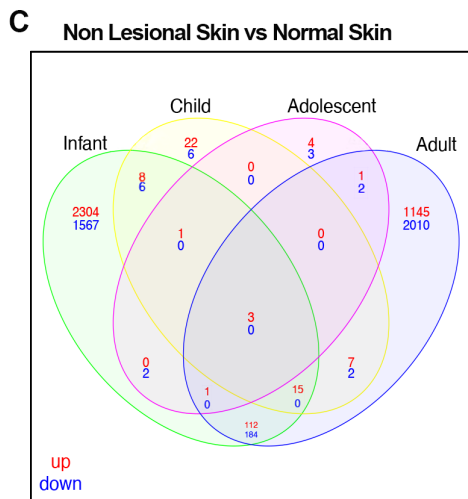
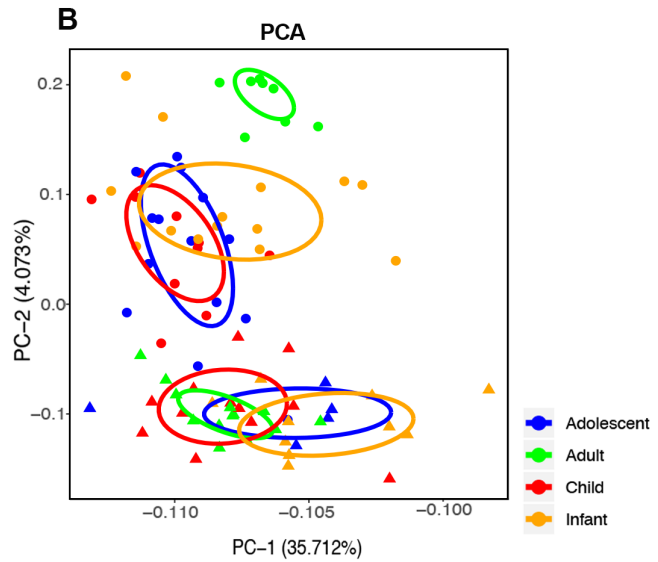
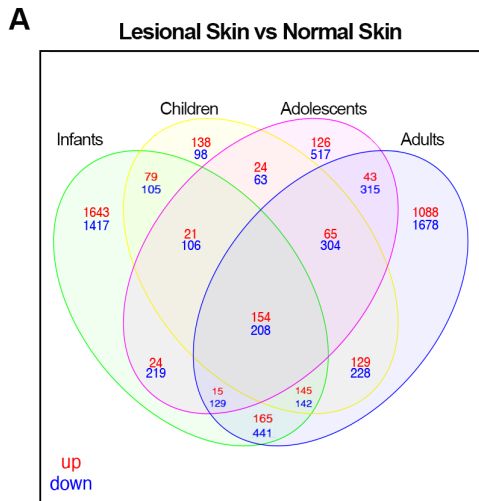


Figure E5

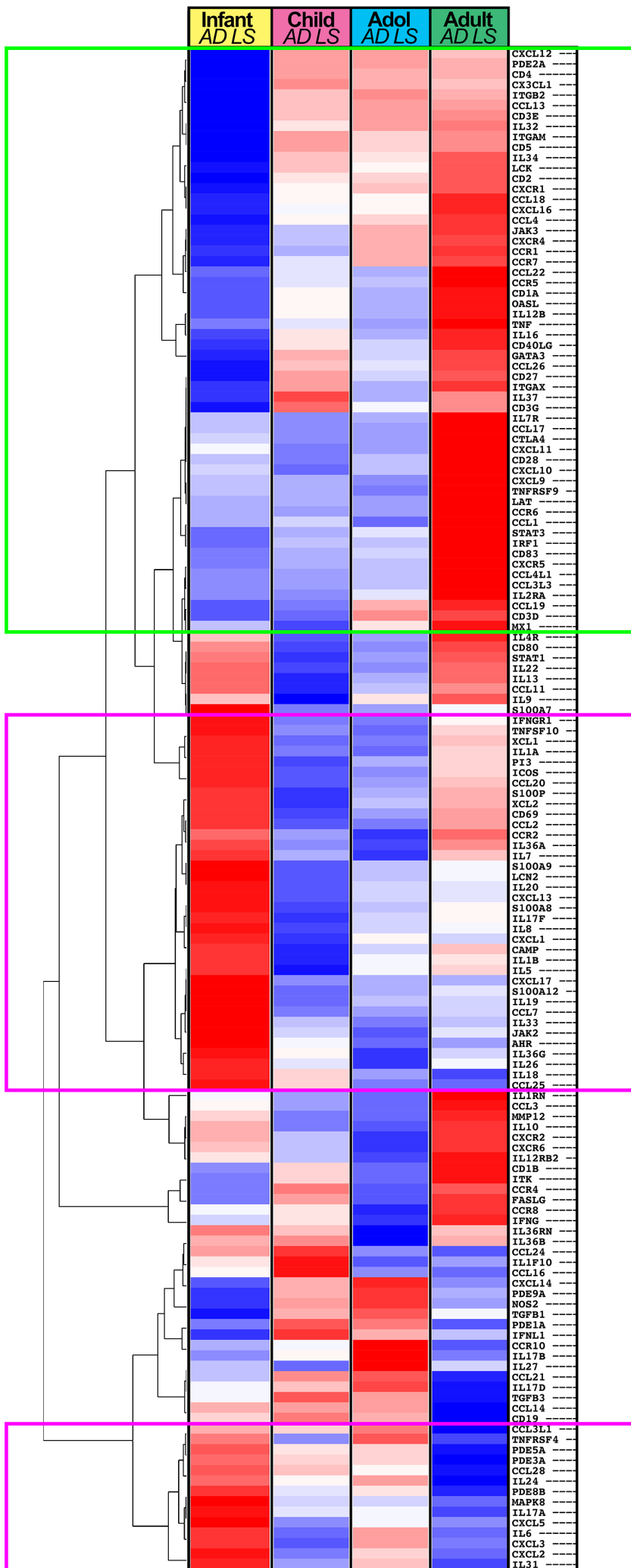


Figure E6

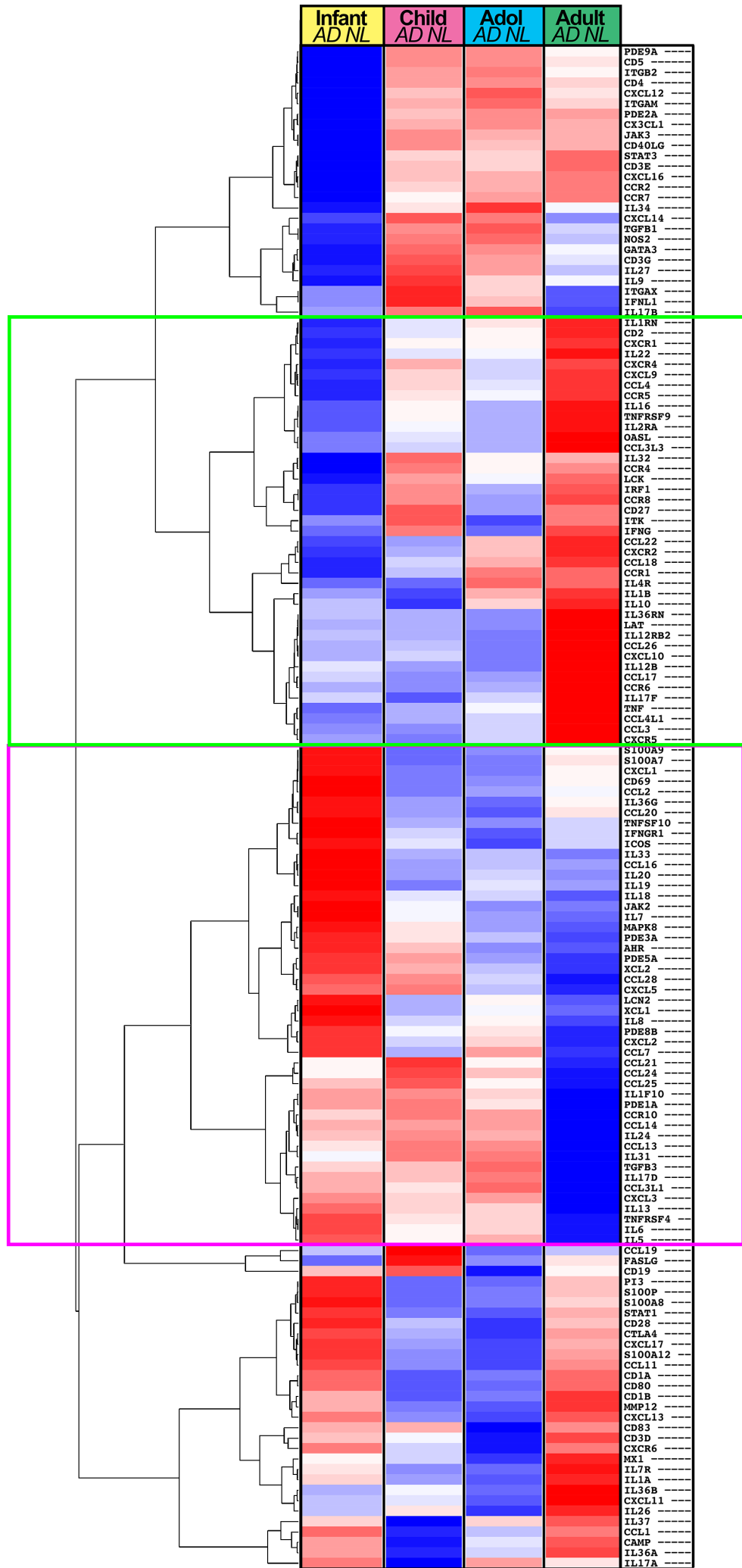


Figure E7

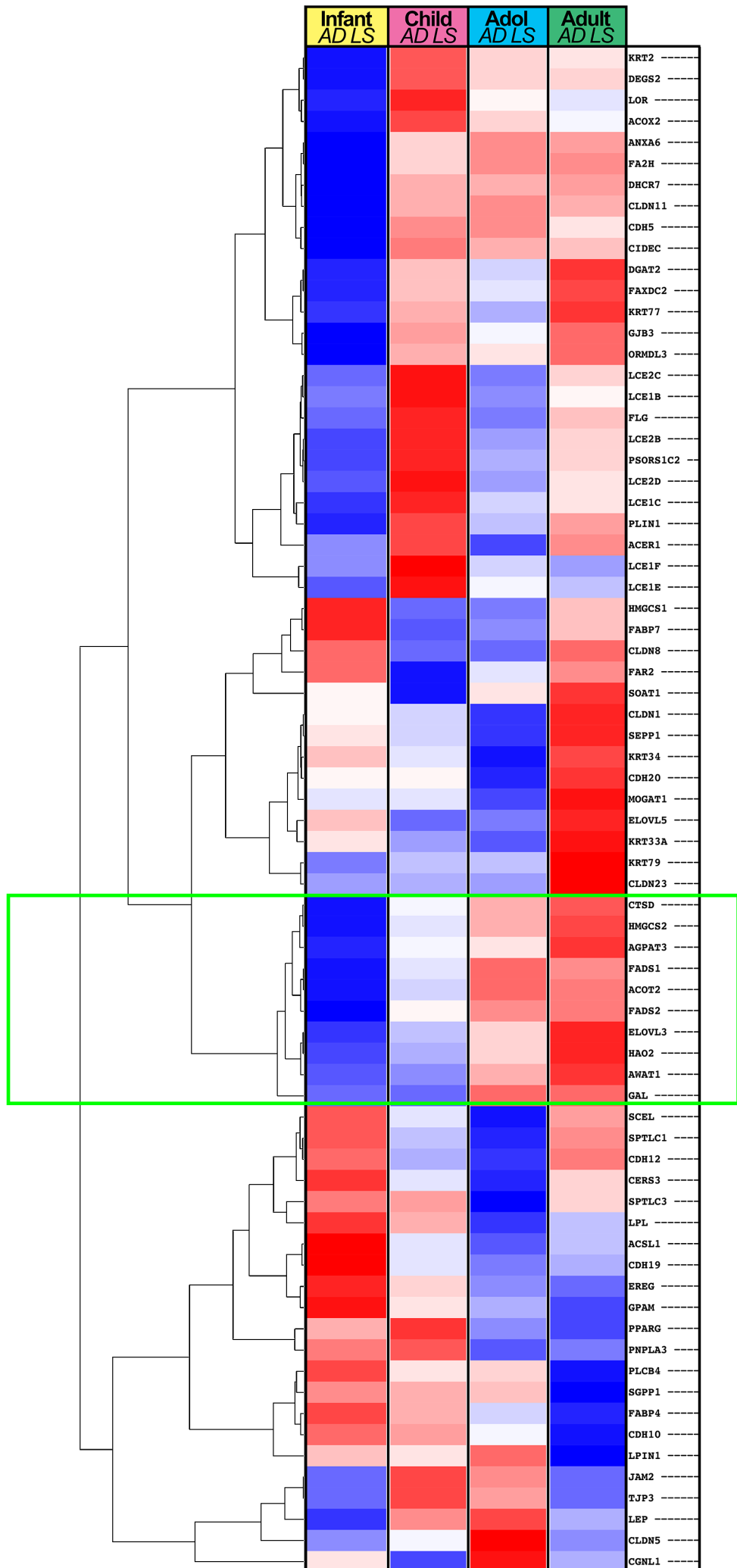
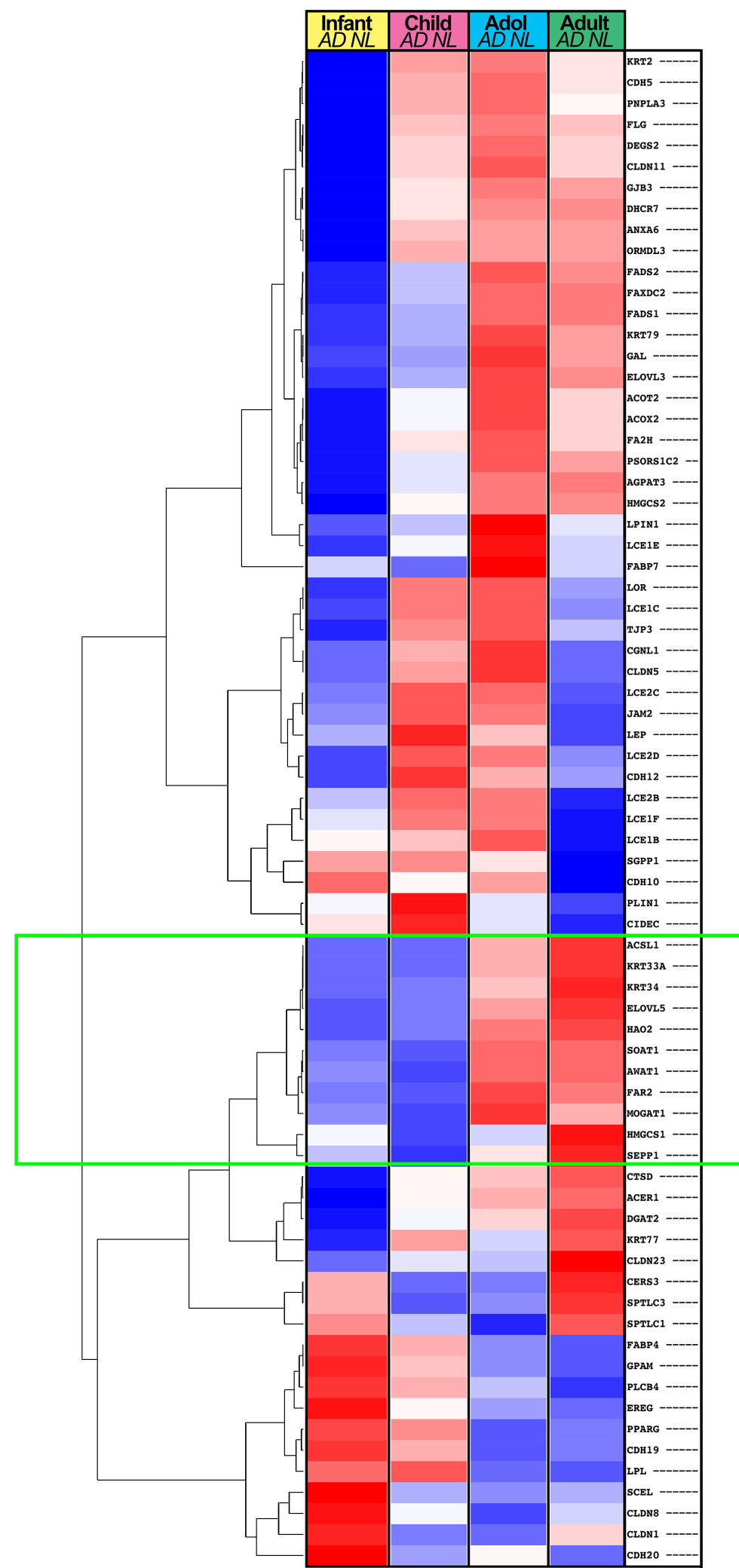




Figure E8



**Figure E9**

Pathways

$-\log_{10}(\text{FDR})$

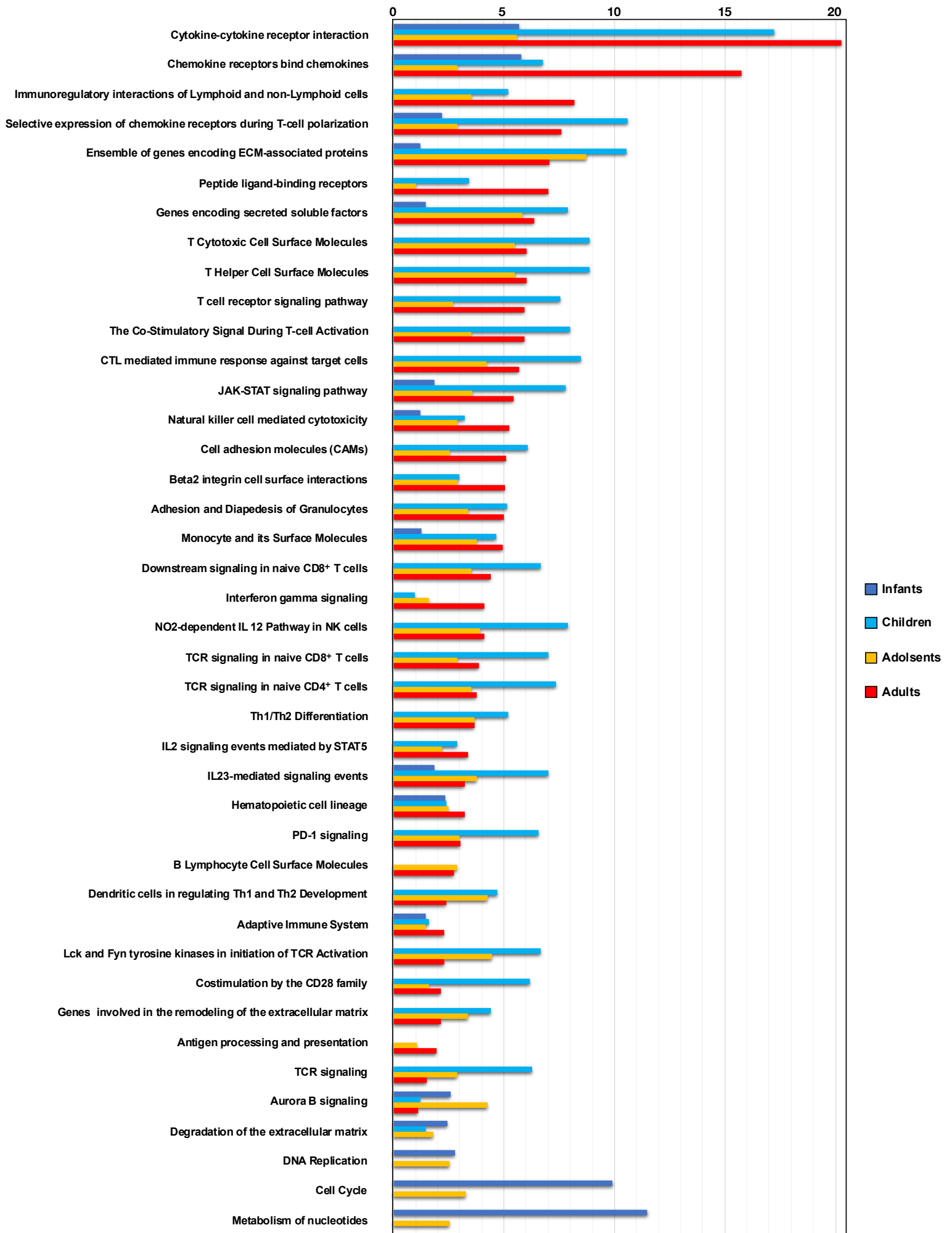


Figure E10

Atopic Dermatitis				Markers	Atopic Dermatitis											
Infants		Children			Adolescents		Adults		Infants		Children		Adolescents		Adults	
N	LS	N	LS		N	LS	N	LS	NL vs N	LS vs N	NL vs N	LS vs N	NL vs N	LS vs N	NL vs N	LS vs N
				OX40L	-1.27	-1.19	-1.32	1.29	1.07	1.48	1.68	3.61***				
				STAT1	-1.74	-1.71	-1.45	-1.21	-1.63	1.00	1.46	2.60***				
				S100A9	11.40***	77.10***	15.10**	72.80***	5.55+	42.80***	13.00**	214.00***				
				S100A8	13.00***	98.60***	14.40*	60.70***	5.01+	46.40***	7.41*	151.00***				
				S100A7	19.80***	85.60***	26.30**	110.00***	9.77*	44.50***	18.40***	212.00***				
				S100A12	7.10*	105.00***	6.54+	27.80***	5.54	45.30**	6.32+	102.00***				
				PPL	-2.86**	-2.06+	-1.30	-1.36	-1.46	-1.20	-1.08	-1.03				
				PI3	4.83**	37.40***	3.46	13.30**	2.48	16.30**	6.29**	49.00***				
				MMP12	5.76**	20.00***	4.78	23.90***	2.22	13.00**	30.60***	261.00***				
				LCN2	1.16	5.05***	2.84+	4.81**	1.16	2.39	1.11	4.07**				
				KRT16	3.50**	31.90***	2.58	11.40***	2.04	12.60***	4.49*	51.70***				
				IL9	101.00**	6340.00***	180.00*	700.00**	9.05	91.20	318.00**	14900.00***				
				IL5	9.52*	17.80**	-1.35	2.59	1.04	3.51	26.40***	114.00***				
				IL4R	-1.76+	1.24	1.35	2.22*	-1.07	2.24**	1.61+	3.54***				
				IL22RA1	-1.81	-1.94	-1.16	-1.49	-1.59	-1.66	-1.08	-1.12				
				IL21	5.85	17.40*	39.10*	333.00***	3.70	71.60**	102.00***	955.00***				
				IL20	1.89	6.98**	1.91	3.69*	2.21	8.86*	2.82	24.90***				
				IL17RA	-3.36**	-2.85**	-1.15	-1.31	-1.55	-1.18	1.13	1.41				
				IL15	-1.78	-1.72	-1.02	1.23	1.20	1.64	1.15	2.24***				
				IFNG	-1.01	3.18	2.19	3.34	-1.01	1.87	2.55+	7.97***				
				FOXP3	-1.88+	-1.08	1.12	2.36*	-1.18	2.44+	1.49	3.99***				
				FLG	-1.27	-1.67	-1.63	-1.38	-1.02	-1.70	-2.69*	-2.76**				
				DEFB4B	109.00***	1650.00***	38.00*	248.00***	64.10**	535.00***	27.10***	631.00***				
				CXCL9	-1.57	-1.11	-1.26	-1.00	-1.28	1.85	4.08*	12.40***				
				CXCL8	1.73	12.00**	2.14	4.79*	3.33	17.50*	5.93**	40.10***				
				CXCL11	-1.46	-1.21	-1.50	-1.37	-1.25	1.86	3.00+	9.96***				
				CXCL10	1.24	1.74	-1.60	-1.01	-1.52	1.84	3.79*	14.80***				
				CXCL1	1.38	10.30***	1.25	3.90*	1.52	10.30**	3.51*	17.80***				
				CRLF2	-1.79+	-1.05	-1.88	2.10	-1.63	1.66	1.73+	4.96***				
				CCL26	1.49	2.11+	1.52	3.89***	1.11	2.20	3.72**	7.58***				
				CCL22	-1.47	2.00	1.18	3.64**	1.10	2.54+	2.09*	7.82***				
				CCL18	2.28	6.91***	8.27*	42.20***	4.20+	15.00***	9.50**	42.40***				
				CCL17	1.20	5.11**	1.87	6.60*	1.08	3.98*	4.04**	18.10***				
				CCL13	-1.31	1.17	3.47*	6.39***	1.70	3.03*	1.69	4.20***				
				CAMP	1.68	10.60***	1.44	3.07+	-1.49	1.82	2.04	8.14***				
				MX1	-1.27	1.70	-1.38	1.15	-1.54	1.35	1.68	3.81***				
				IL31	3.90+	62.80***	4.98	29.40***	4.03	11.20+	4.25	36.70***				
				IL4	-1.55	1.34	3.97+	3.16+	4.13	4.22	-2.02	1.23				
				OX40	-2.30**	1.05	-1.29	1.75	1.44	2.95*	1.29	3.61***				
				LOR	-1.92	-3.30*	-1.78	-1.58	-1.74	-7.61*	-3.65*	-4.89***				
				IL2	1.80	2.12	1.49	4.54*	-1.23	1.25	1.12	3.24**				
				IL1B	-1.48	3.03*	-1.75	-1.09	-1.38	1.54	1.09	1.67				
				IL17C	-1.17	2.09	1.30	1.87	2.16	4.16+	1.49	5.21**				
				CCL21	-1.71	-1.22	-1.24	1.06	-1.72	1.33	-2.05*	-1.09				
				CCL20	2.41	4.84**	1.71	2.87	-2.62	-1.11	4.32*	9.87***				
				CCL19	-1.06	1.28	1.33	1.77	-1.09	1.85	1.14	3.19**				
				IL26	7.89**	29.80***	19.40**	77.20***	5.75	21.50**	6.55**	29.30***				
				EREG	2.09+	3.06**	1.13	1.87	-1.19	-1.01	-1.31	-1.17				
				KYNU	4.26**	10.20***	1.86	5.16***	2.60+	7.08***	-1.03	1.61*				
				TNFA	2.08+	2.11*	1.29	1.39	-1.12	1.08	1.23	2.00***				
				iNOS	-3.13*	-5.50***	-1.84	-3.79*	1.35	-2.51	1.12	-1.33				
				CCL27	3.69***	1.33	1.54	1.16	-1.06	-1.61	-1.34	1.10				
				CCL7	16.50***	90.00***	5.99+	50.80***	2.25	11.00+	2.46	34.40***				
				CLDN23	-1.98**	-2.85***	-1.38	-3.75***	-1.67	-3.30**	-1.68*	-3.12***				
				CLDN8	1.00	-4.08***	-1.13	-5.06***	-2.60+	-7.07***	-1.13	-2.46***				
				CLDN1	1.30	-1.50	-1.38	-2.46*	-2.22*	-5.39***	-1.29+	-1.88***				
				IL37	-1.27	-6.10***	-1.88	-3.74*	-1.85	-8.48**	-2.88**	-11.40***				
				IL34	-1.33	-4.31***	-1.43	-3.82**	-1.64	-7.02***	-1.51+	-3.01***				
				IL33	1.45	1.08	-1.70	-1.98+	-1.75+	-2.08*	-1.39+	-1.45*				
				IL17F	18.90*	204.00***	5.79	79.40**	-6.10	4.11	-1.29	12.70+				
				IL19	323.00***	3330.00***	4.54	49.90***	15.30	351.00**	17.40**	264.00***				
				IL22	41.10**	357.00***	281.00**	1810.00**	179.00**	1390.00**	224.00**	5740.00***				
				INFa	1.03	2.35	-1.18	19.10***	-7.11+	-1.90	5.93*	7.37*				
				IL12/23p40	1.20	1.65	-1.47	4.46*	1.07	2.23	2.07	7.41***				
				IL23p19	1.68	3.46***	1.49	2.77*	1.47	2.86+	1.09	2.80**				
				IL36G	5.03***	17.90***	1.52	6.54**	2.61	8.32***	1.30	3.81***				
				IL1R1	1.10	1.31	-1.36	-1.02	-1.22	1.14	1.09	1.40+				
				IL10	-1.42	1.57	-1.15	3.02*	-1.30	1.45	1.89+	4.86***				
				IL1RL1	1.03	-1.06	-1.32	1.04	-1.45	-1.24	-1.12	1.10				
				IL13	7.15***	18.50***	32.90**	162.00***	4.48	19.60*	7.60***	49.10***				
				IL17A	18.00*	212.00***	8.70	150.00**	5.01	211.00**	10.70	66.50**				

Figure E11

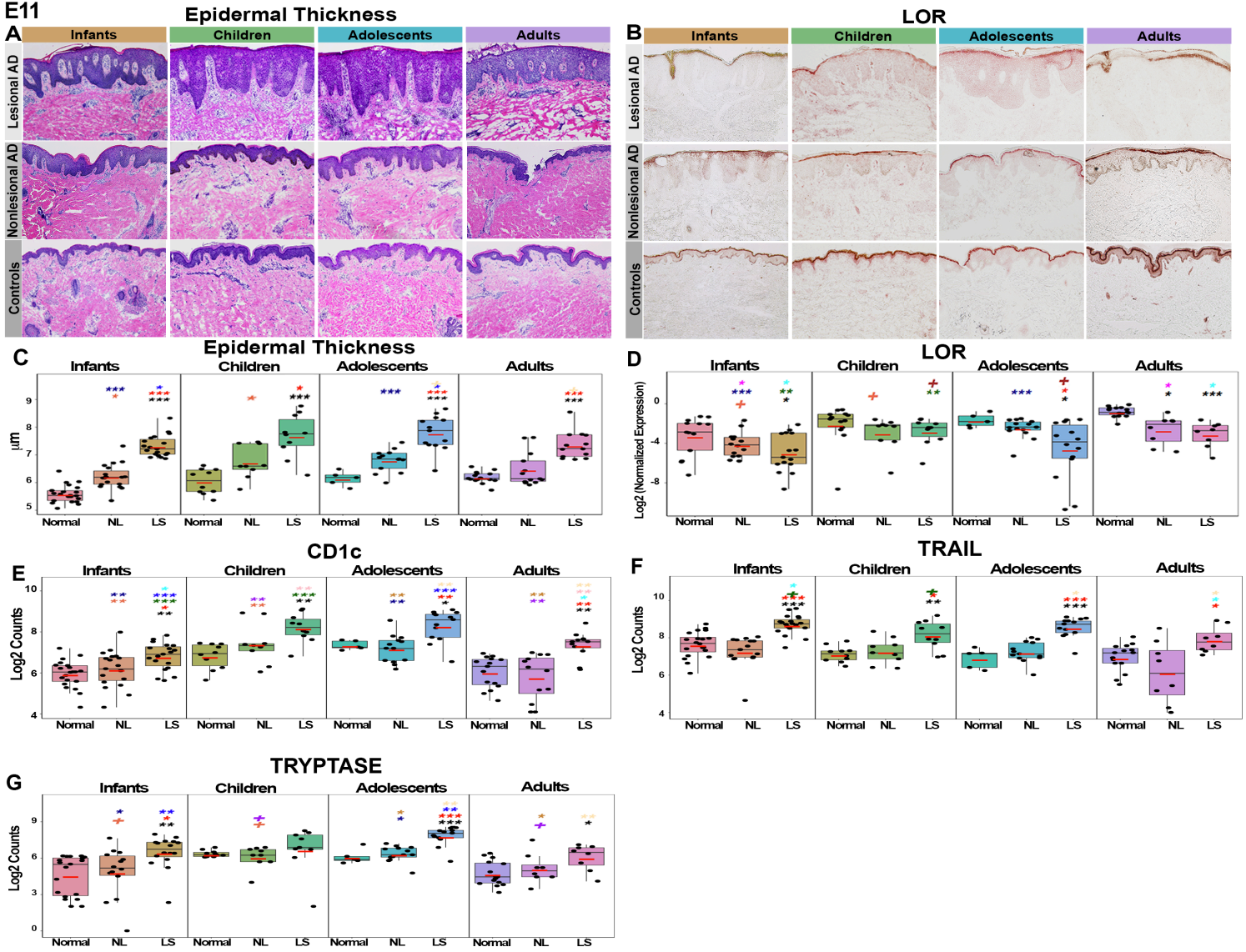
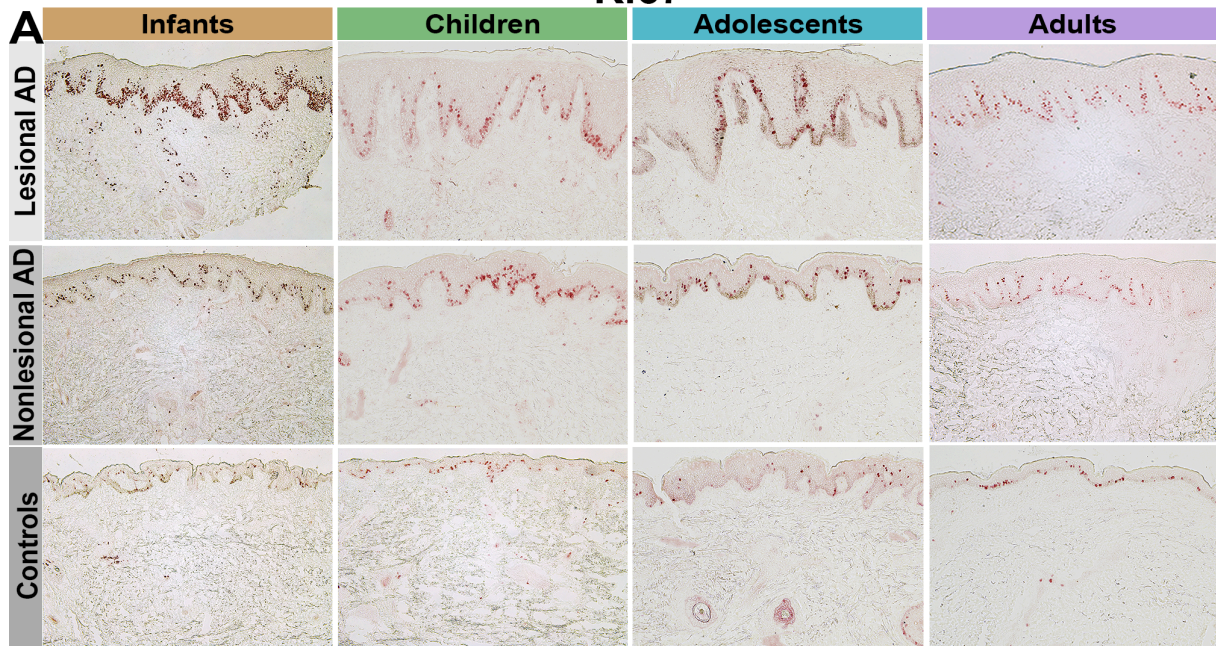


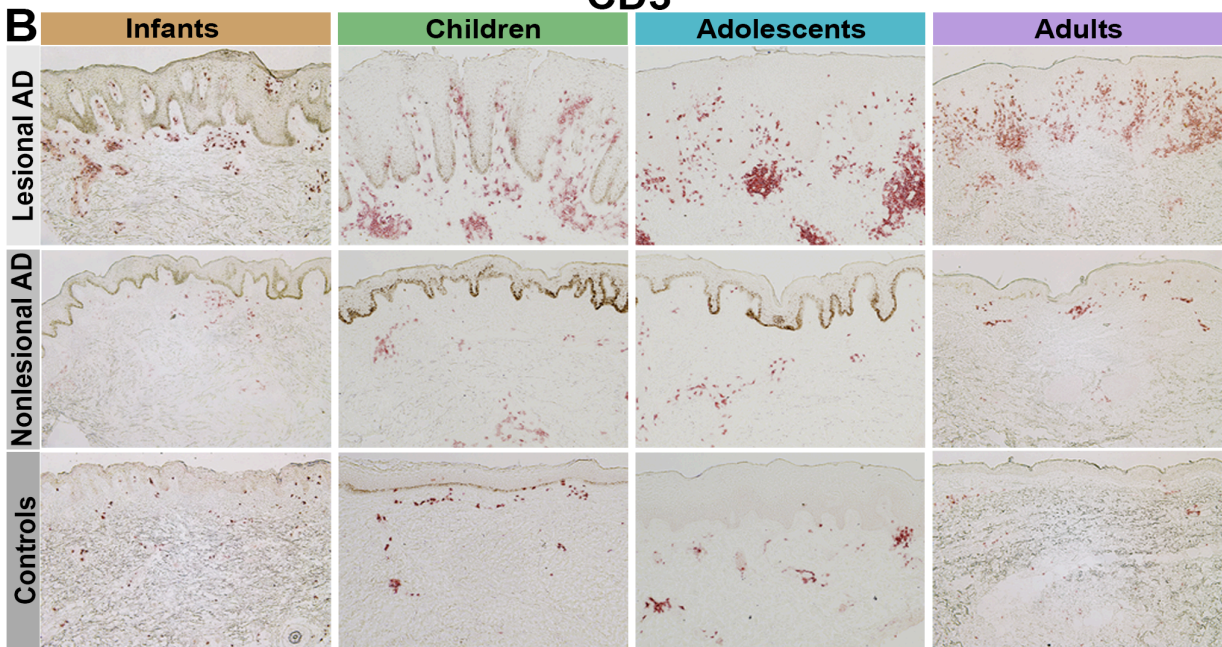


Figure E12

**Ki67**



**CD3**



**CD11c**

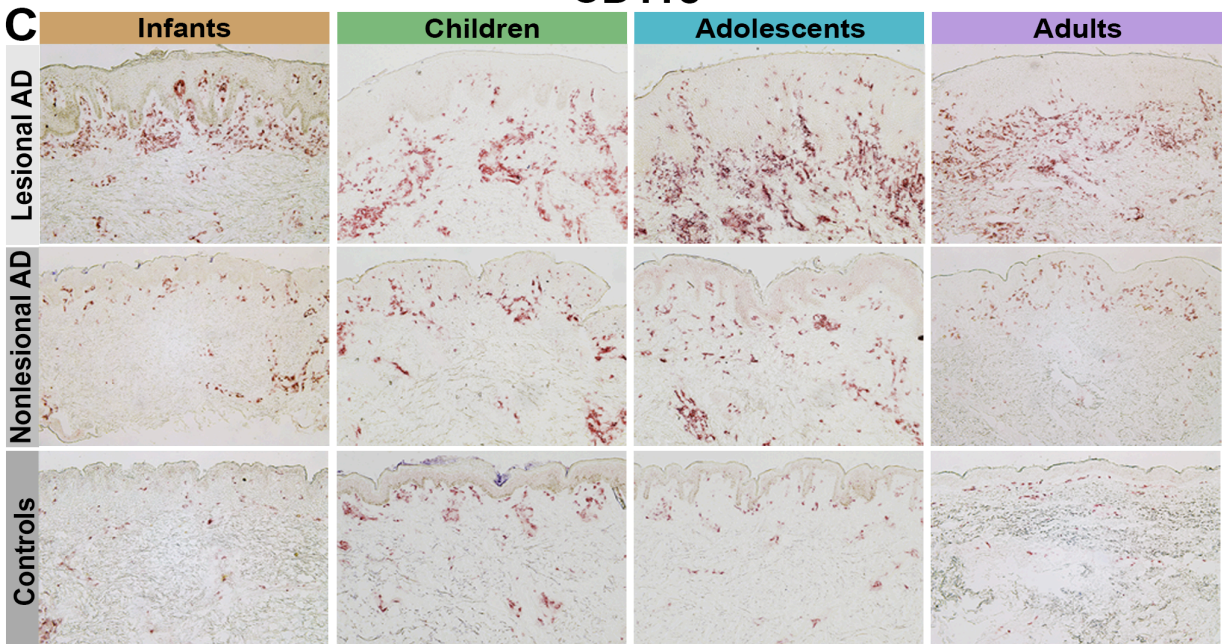
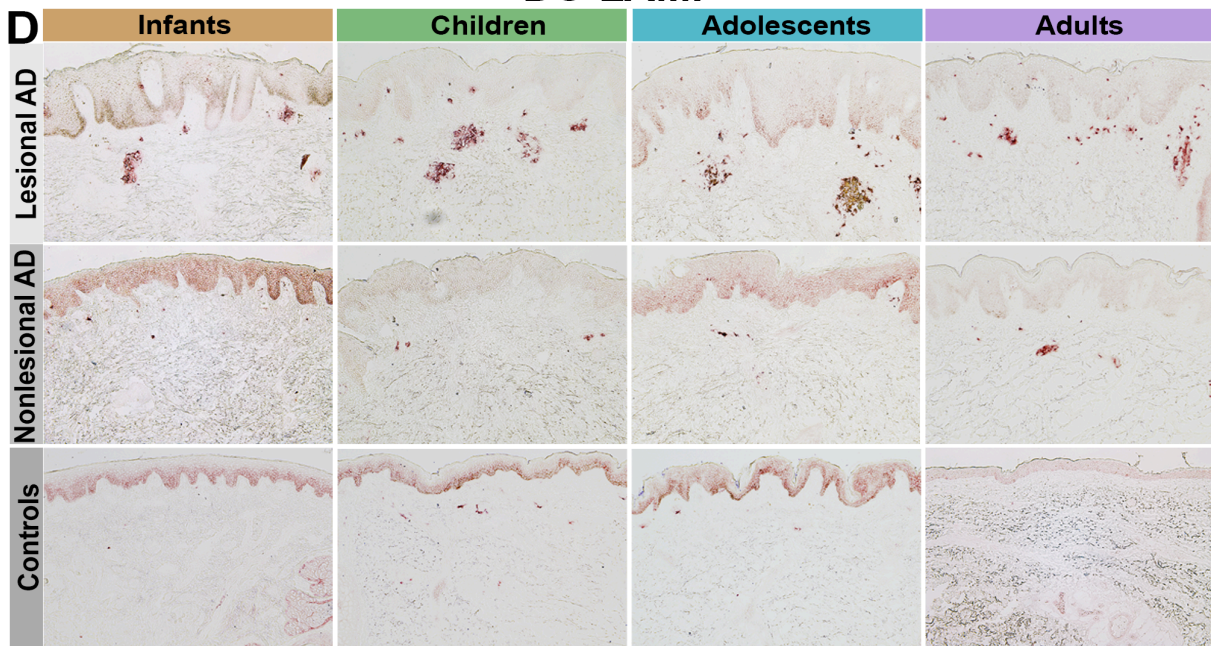


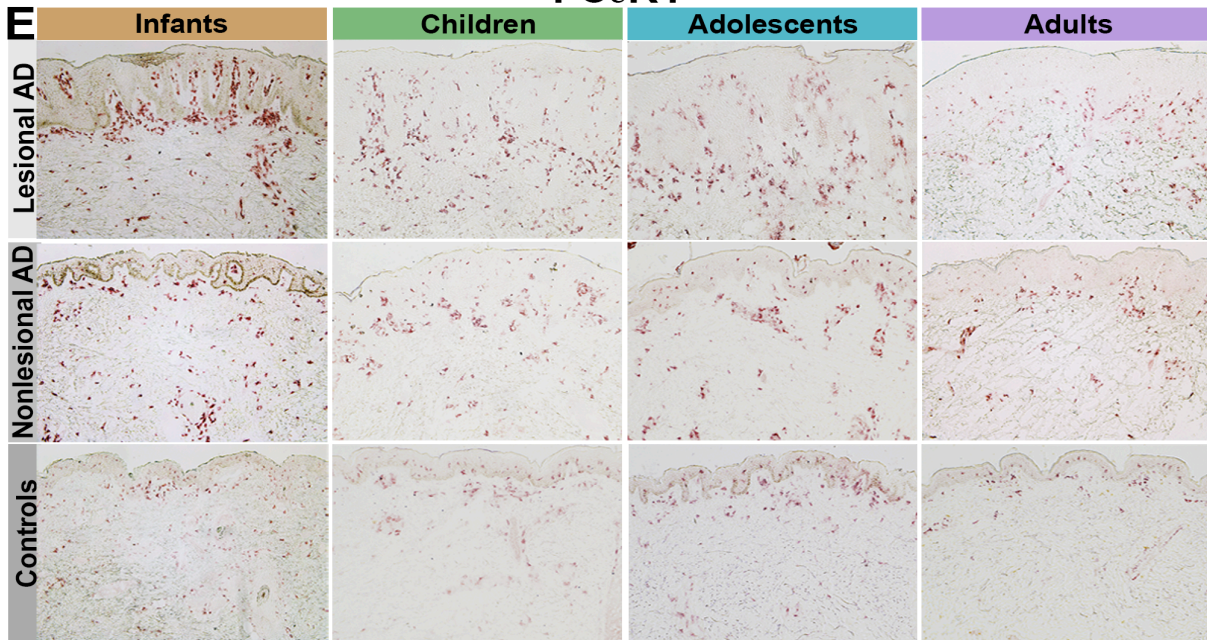


Figure E13

DC-LAMP



FC $\epsilon$ R1



CD206

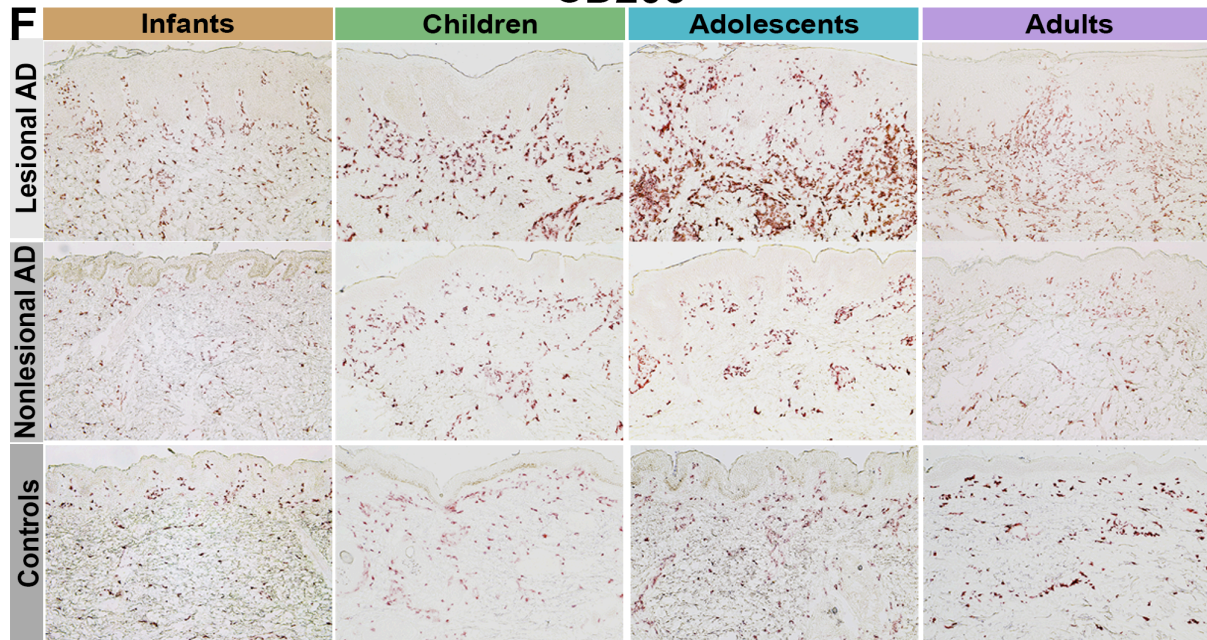
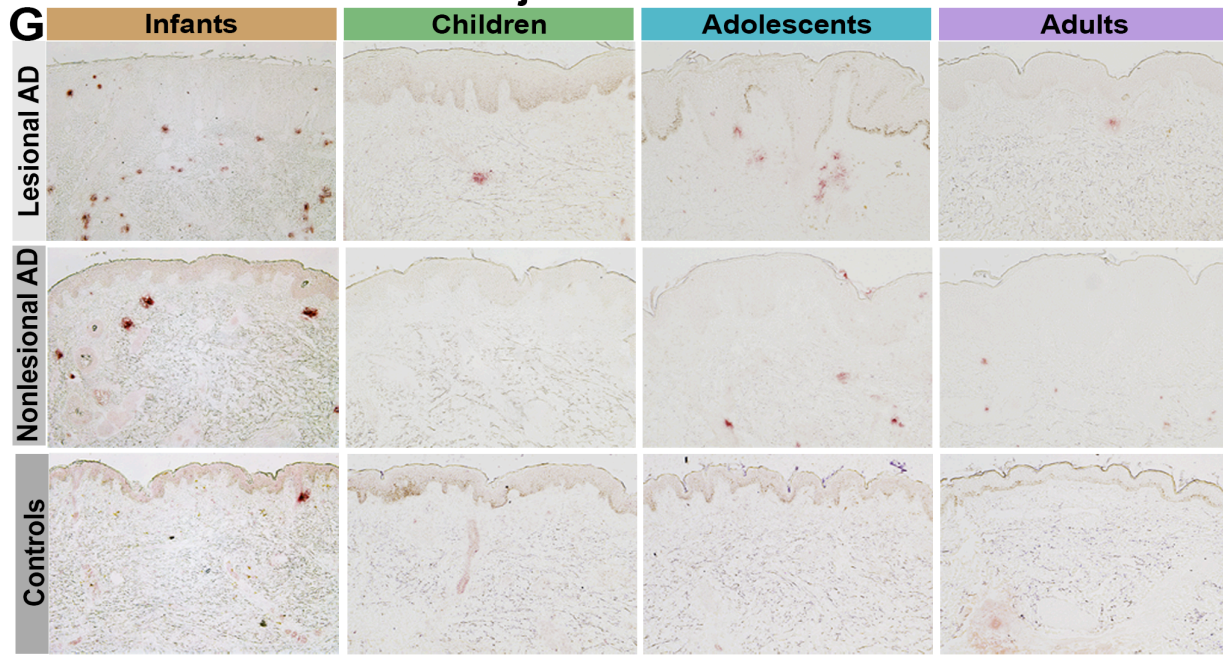




Figure E14

### Major Basic Protein



### Neutrophil Elastase

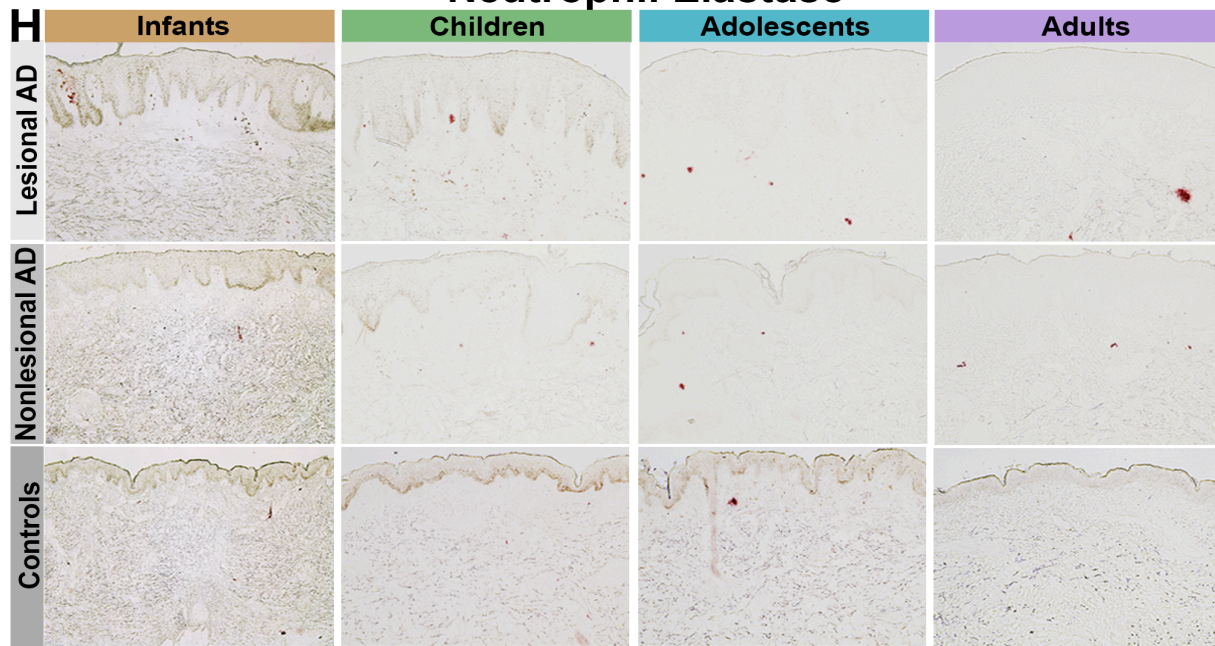


Figure E15

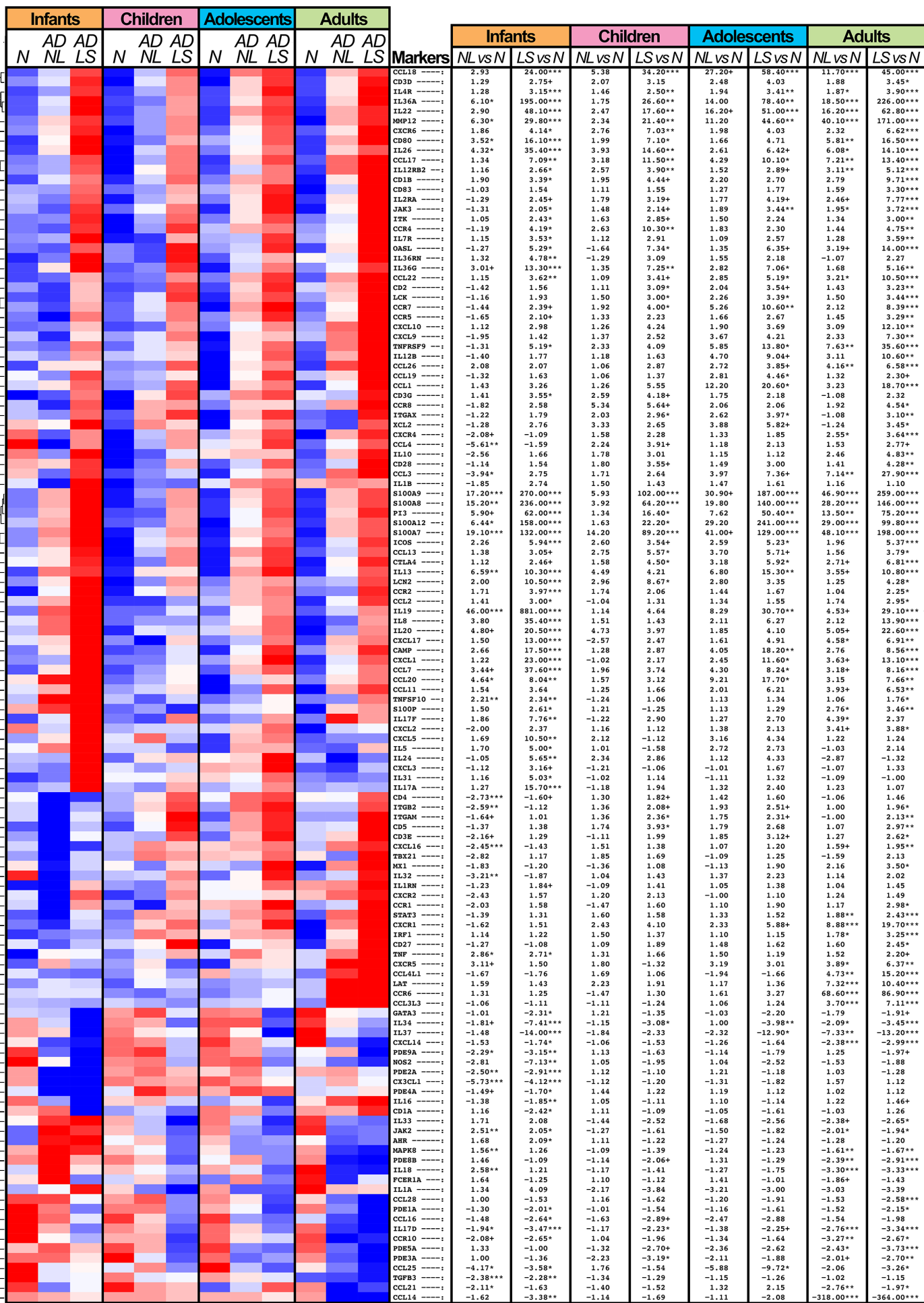


Figure E16

