

**Supplementary table 1. Spectral Domain-Optical coherence tomography data of SLE and HC.**

	<b>SLE (N=43)</b>	<b>HC (N=34)</b>	<b>p</b>
Retina OT ( $\mu\text{m}$ )	277.3 $\pm$ 13.75	283.1 $\pm$ 14.75	0.087
Retina IT ( $\mu\text{m}$ )	326.4 $\pm$ 19.4	335.8 $\pm$ 14.44	<b>0.036</b>
Retina OS ( $\mu\text{m}$ )	299.6 $\pm$ 13.87	303.7 $\pm$ 13.56	0.221
Retina IS ( $\mu\text{m}$ )	344.3 $\pm$ 18.78	352 $\pm$ 15.44	0.077
Retina ON ( $\mu\text{m}$ )	314.9 $\pm$ 17.56	323.9 $\pm$ 17.44	<b>0.035</b>
Retina IN ( $\mu\text{m}$ )	342.8 $\pm$ 19.33	352.1 $\pm$ 17.49	<b>0.043</b>
Retina OI ( $\mu\text{m}$ )	286.1 $\pm$ 16.27	297 $\pm$ 24.65	<b>0.016</b>
Retina II ( $\mu\text{m}$ )	337.4 $\pm$ 18.01	345.3 $\pm$ 23.08	0.091
Retina F ( $\mu\text{m}$ )	277.8 $\pm$ 27.89	279.1 $\pm$ 15.61	0.839
GCL OT ( $\mu\text{m}$ )	34.3 $\pm$ 5.07	36.36 $\pm$ 4.34	0.088
GCL IT ( $\mu\text{m}$ )	47.56 $\pm$ 5.7	50.95 $\pm$ 4.32	<b>0.011</b>
GCL OS ( $\mu\text{m}$ )	34.49 $\pm$ 3.53	35.82 $\pm$ 2.5	0.104
GCL IS ( $\mu\text{m}$ )	53.17 $\pm$ 5.05	56.23 $\pm$ 3.67	<b>0.01</b>
GCL ON ( $\mu\text{m}$ )	37.44 $\pm$ 3.92	39.9 $\pm$ 3.02	<b>0.008</b>
GCL IN ( $\mu\text{m}$ )	52.07 $\pm$ 6	53.36 $\pm$ 4.34	0.353
GCL OI ( $\mu\text{m}$ )	33.23 $\pm$ 4.74	34.05 $\pm$ 2.51	0.441
GCL II ( $\mu\text{m}$ )	52.3 $\pm$ 5.38	55.77 $\pm$ 3.91	<b>0.006</b>
GCL F ( $\mu\text{m}$ )	16.21 $\pm$ 5.03	15.91 $\pm$ 3.19	0.789
RNFL OT ( $\mu\text{m}$ )	20.25 $\pm$ 5.06	19.5 $\pm$ 2.01	0.503
RNFL IT ( $\mu\text{m}$ )	18.43 $\pm$ 3.98	17.68 $\pm$ 1.32	0.387
RNFL OS ( $\mu\text{m}$ )	40.51 $\pm$ 7.54	41.09 $\pm$ 5.86	0.74
RNFL IS ( $\mu\text{m}$ )	27.59 $\pm$ 8.34	26.5 $\pm$ 2.84	0.548
RNFL ON ( $\mu\text{m}$ )	53.64 $\pm$ 10.48	54.59 $\pm$ 8	0.696
RNFL IN ( $\mu\text{m}$ )	22.75 $\pm$ 5.27	22.23 $\pm$ 2.52	0.653
RNFL OI ( $\mu\text{m}$ )	41.45 $\pm$ 7.03	43.45 $\pm$ 6.02	0.232
RNFL II ( $\mu\text{m}$ )	26.49 $\pm$ 4.13	27.14 $\pm$ 2.76	0.497
RNFL F ( $\mu\text{m}$ )	13.49 $\pm$ 3.53	12.68 $\pm$ 1.61	0.301

SLE: systemic lupus erythematosus; HC: healthy controls; OT: outer temporal; IT: inner temporal; OS: outer superior; IS: inner superior, ON: outer nasal areas; IN: inner nasal areas; OI: outer inferior; II: inner inferior; F: foveal area; GCL: ganglion cell layer; RNFL: retinal nerve fiber layer.