Supplementary Table S1. Thicknesses of the fovea, perifovea, parafovea, and peripheral retina outside the vascular arcade in cynomolgus monkeys using optical coherence tomography

	Left	Right	Both	p-value
Central subfoveal choroidal thickness	233.18±54.29	236.27±56.16	234.73±53.93	0.897
Total retinal thickness – center	285.27±21.17	287.28±16.21	286.27±18.43	0.806
Total retinal thickness (superior, 3 mm zone)	353.82±13.12	351.18±23.94	352.50±18.89	0.752
Mean TRL thickness (inferior, 3 mm zone)	357.27±9.42	355.45±14.58	356.36±12.01	0.732
Mean TRL thickness (nasal, 3 mm zone)	363.09±8.04	360.55±18.06	361.82±13.70	0.674
Mean TRL thickness (temporal, 3 mm zone)	347.27±11.41	350.73±8.46	349.00±9.96	0.429
Mean TRL thickness (superior, 6 mm zone)	329.45±14.35	320.73±18.24	325.09±16363	0.227
Mean TRL thickness (inferior, 6 mm zone)	344.82±10.96	354.00±15.29	349.41±13.81	0.121
Mean TRL thickness (nasal, 6 mm zone)	377.82±13.68	368.09±21.67	372.95±18.37	0.223
Total retinal thickness (temporal, 6 mm zone)	313.09±11.90	309.36±15.28	311.23±13.50	0.531

Mean ppRNFL thickness (center)	99.09±6.07	100.55±6.98	99.82±6.43	0.592
Mean ppRNFL thickness (temporal)	73.73±8.95	74.55±11.09	74.14±9.84	0.824
Mean ppRNFL thickness (inferotemporal)	126.09±16.73	144.09±20.31	135.09±20.36	0.014
Mean ppRNFL thickness (superotemporal)	120.55±1.26	126.36±18.98	123.45±25.41	0.790
Mean ppRNFL thickness (nasal)	60.73±13.15	67.36±10.75	64.05±12.20	0.014
Mean ppRNFL thickness (inferonasal)	111.73±35.51	115.00±25.45	113.36±30.19	0.756
Mean ppRNFL thickness (superonasal)	95.55±17.03	114.18±23.95	104.86±22.41	0.062
Mean IRL thickness (center)	176.45±16.28	177.36±12.77	176.91±14.28	0.886
Mean IRL thickness (superior, 3 mm zone)	244.55±9.72	239.64±18.44	242.09±14.60	0.444
Mean IRL thickness (inferior, 3 mm zone)	246.55±11.93	237.09±5.79	241.82±33.01	0.515
Mean IRL thickness (nasal, 3 mm zone)	251.45±10.75	249.82±19.60	250.64±15.45	0.811
Mean IRL thickness (temporal, 3 mm zone)	235.36±9.11	230.36±26.75	232.86±19.67	0.564
Mean IRL thickness (superior, 6 mm zone)	213.82±16.91	186.64±56.08	200.23±42.75	0.139
Mean IRL thickness (inferior, 6 mm zone)	226.36±11.52	238.73±15.66	232.55±14.83	0.058

Mean IRL thickness (nasal, 6 mm zone)	259.36±11.01	250.91±18.34	255.14±15.38	0.205
Mean IRL thickness (temporal, 6 mm zone)	191.36±12.09	194.45±19.59	192.91±15.96	0.661
Mean ORL thickness (center)	102.82±34.01	109.91±5.57	106.36±26.07	0.537
Mean ORL thickness (superior, 3 mm zone)	109.36±14.02	111.45±10.43	110.41±12.10	0.696
Mean ORL thickness (inferior, 3 mm zone)	111.45±12.11	109.18±12.93	110.32±12.28	0.675
Mean ORL thickness (nasal, 3 mm zone)	111.55±13.10	110.18±8.01	110.86±10.62	0.771
Mean ORL thickness (temporal, 3 mm zone)	111.73±13.82	111.27±9.49	111.50±11.58	0.929
Mean ORL thickness (superior, 6 mm zone)	115.82±8.76	117.45±.14	116.64±7.43	0.617
Mean ORL thickness (inferior, 6 mm zone)	118.73±6.33	115.36±4.37	117.05±5.58	0.162
Mean ORL thickness (nasal, 6 mm zone)	118.55±9.73	117.18±7.09	117.86±8.34	0.711
Mean ORL thickness (temporal, 6 mm zone)	121.73±8.49	117.00±8.36	119.36±8.57	0.203
Mean GCC thickness (center)	58.09±13.91	55.36±6.01	56.73±10.55	0.557
Mean GCC thickness (superior, 3 mm zone)	107.09±6.76	102.91±15.93	105.00±1213	0.432

Mean GCC thickness (inferior, 3 mm zone)	109.18±7.71	109.45±5.92	109.32±12.21	0.90
Mean GCC thickness (nasal, 3 mm zone)	103.36±12.31	104.27±12.39	103.82±12.07	.865
Mean GCC thickness (temporal, 3 mm zone)	96.82±5.06	94.45±13.43	95.64±9.97	0.591
Mean GCC thickness (superior, 6 mm zone)	100.91±11.84	92.55±9.94	96.73±11.49	0.088
Mean GCC thickness (inferior, 6 mm zone)	114.18±10.02	124.55±3.18	119.36±12.59	0.051
Mean GCC thickness (nasal, 6 mm zone)	135.55±1.36	138.73±13.99	137.14±12.54	0.565
Mean GCC thickness (temporal, 6 mm zone)	76.64±8.36	75.64±5.45	76.14±6390	0.743
Mean NFL thickness (center)	12.73±1.49	12.45±1.44	12.59±1.44	0.667
Mean NFL thickness (superior, 3 mm zone)	25.36±2.29	23.27±30.7	24.32±2.85	0.085
Mean NFL thickness (inferior, 3 mm zone)	27.27±2.69	25.45±4.61	26.36±3.79	0.272
Mean NFL thickness (nasal, 3 mm zone)	21.64±1.21	21.45±2.69	21.55±2.04	0.840
Mean NFL thickness (temporal, 3 mm zone)	18.09±1.22	18.45±0.69	18.27±0.98	0.400
Mean NFL thickness (superior, 6 mm zone)	50.00±10.81	45.00±9.17	45.00±11.04	0.060

Mean NFL thickness (inferior, 6 mm zone)	58.73±9.56	61.73±996	62.73±10.37	0.069
Mean NFL thickness (nasal, 6 mm zone)	78.55±8.90	72.09±11.89	75.32±10.77	0.165
Mean NFL thickness (temporal, 6 mm zone)	20.73±1.74	21.36±2.73	21.05±2.26	0.522
Mean GCL thickness – center	14.18±1.78	14.18±2.14	14.18±1.92	0.247
Mean GCL thickness (superior, 3 mm zone)	45.36±2.06	44.91±5.50	45.14±4.06	0.369
Mean GCL thickness (inferior, 3 mm zone)	45.73±2.69	43.91±9.82	44.82±7.09	1.000
Mean GCL thickness (nasal, 3 mm zone)	47.18±2.04	46.36±4.63	46.77±3.52	0.800
Mean GCL thickness (temporal, 3 mm zone)	41.91±2.47	41.91±6.35	41.91±4.70	0.560
Mean GCL thickness (superior, 6 mm zone)	29.55±1.44	29.00±2.05	29.27±1.75	0.598
Mean GCL thickness (inferior, 6 mm zone)	31.45±1.92	32.64±2.73	32.05±2.38	1.000
Mean GCL thickness (nasal, 6 mm zone)	34.82±2.27	34.27±3.17	34.55±2.70	0.478
Mean GCL thickness (temporal, 6 mm zone)	28.64±2.38	29.64±3.78	29.14±3.12	0.254
Mean IPL thickness – center	20.82±1.83	20.64±1.50	20.73±1.64	0.647

Mean IPL thickness (superior, 3 mm zone)	37.73±2.24	36.73±3.10	37.23±2.69	0.466
Mean IPL thickness (inferior, 3 mm zone)	38.00±2.19	36.64±7.38	37.32±5.36	0.702
Mean IPL thickness (nasal, 3 mm zone)	39.73±1.79	39.27±3.52	39.50±2.74	0.740
Mean IPL thickness (temporal, 3 mm zone)	38.36±1.57	37.36±4.63	37.86±3.41	0.802
Mean IPL thickness (superior, 6 mm zone)	23.27±1.56	23.00±2.00	23.14±1.75	0.396
Mean IPL thickness (inferior, 6 mm zone)	25.18±1.47	26.00±2.19	25.59±1.87	0.563
Mean IPL thickness (nasal, 6 mm zone)	27.64±1.63	27.82±2.36	27.73±1.98	0.707
Mean IPL thickness (temporal, 6 mm zone)	26.91±1.81	26.45±1.86	26.68±1.81	0.505
Mean INL thickness – center	17.82±2.23	17.36±3.53	17.59±2.89	0.722
Mean INL thickness (superior, 3 mm zone)	40.27±4.34	39.00±5.18	39.64±4.71	0.539
Mean INL thickness (inferior, 3 mm zone)	39.73±3.82	38.00±9.14	38.86±6.89	0.570
Mean INL thickness (nasal, 3 mm zone)	40.64±3.29	40.36±4.46	40.50±3.83	0.872
Mean INL thickness (temporal, 3 mm zone)	38.73±3.32	37.45±5.69	38.09±4.59	0.529

Mean INL thickness (superior, 6 mm zone)	27.82±1.66	27.91±1.81	27.86±1.69	0.904
Mean INL thickness (inferior, 6 mm zone)	31.82±2.36	32.91±2.74	32.36±2.56	0.329
Mean INL thickness (nasal, 6 mm zone)	36.64±1.96	35.73±1.74	36.81±1.87	0.264
Mean INL thickness (temporal, 6 mm zone)	32.18±1.72	32.64±2.62	32.41±2.18	0.636
Mean OPL thickness – center	23.18±2.99	22.82±2.93	23.00±2.89	0.576
Mean OPL thickness (superior, 3 mm zone)	28.91±4.46	26.45±3.17	27.68±3.98	0.153
Mean OPL thickness (inferior, 3 mm zone)	26.82±2.09	27.36±7.34	27.09±5.27	0.815
Mean OPL thickness (nasal, 3 mm zone)	28.18±1.66	27.00±2.41	27.59±2.11	0.195
Mean OPL thickness (temporal, 3 mm zone)	27.45±2.07	27.64±4.55	27.55±3.45	0.905
Mean OPL thickness (superior, 6 mm zone)	23.82±1.66	23.18±1.78	23.50±1.71	0.396
Mean OPL thickness (inferior, 6 mm zone)	23.09±0.94	23.73±2.05	23.41±1.05	0.162
Mean OPL thickness (nasal, 6 mm zone)	24.18±0.75	23.82±1.47	24.00±1.16	0.474
Mean OPL thickness (temporal, 6 mm zone)	24.00±0.78	23.73±2.05	23.86±1.52	0.685

Mean ONL thickness – center	89.09±12.19	87.36±14.69	88.23±13.21	0.767
Mean ONL thickness (superior, 3 mm zone)	66.55±1062	69.00±8.23	67.77±9.36	0.551
Mean ONL thickness (inferior, 3 mm zone)	68.91±5.96	66.55±13.26	67.73±10.11	0.596
Mean ONL thickness (nasal, 3 mm zone)	73.27±7.38	75.82±7.19	74.55±7.23	0.422
Mean ONL thickness (temporal, 3 mm zone)	70.09±8.38	68.18±7.18	69.14±7.68	0.573
Mean ONL thickness (superior, 6 mm zone)	59.09±6.41	60.36±5.89	59.73±6.04	0.633
Mean ONL thickness (inferior, 6 mm zone)	56.00±6.48	56.73±5.57	56.36±5.91	0.781
Mean ONL thickness (nasal, 6 mm zone)	57.45±4.66	58.27±7.38	57.86±6.03	0.759
Mean ONL thickness (temporal, 6 mm zone)	59.18±5.94	57.36±4.11	58.27±6.85	0.547
Mean RPE thickness – center	43.27±16.18	38.82±17.42	41.05±16.57	0.541
Mean RPE thickness (superior, 3 mm zone)	41.00±15.05	44.00±12.72	42.50±13.69	0.619
Mean RPE thickness (inferior, 3 mm zone)	43.73±14.00	40.45±.14.21	42.09±13.87	0.592
Mean RPE thickness (nasal, 3 mm zone)	44.55±13.13	41.36±9.87	42.95±11.45	0.528

Mean RPE thickness (temporal, 3 mm zone)	42.36±16.79	40.45±13.29	41.41±14.82	0.771
Mean RPE thickness (superior, 6 mm zone)	48.27±12.08	50.27±8.81	49.27±10.37	0.662
Mean RPE thickness (inferior, 6 mm zone)	50.09±11.46	47.36±9.27	48.73±10.26	0.546
Mean RPE thickness (nasal, 6 mm zone)	52.00±11.31	50.36±9.42	51.18±10.19	0.716
Mean RPE thickness (temporal, 6 mm zone)	51.55±16.07	48.36±13.57	49.95±14.60	0.621
Mean TRL thickness (superior, 5 mm)	224.64±11.31	221.36±10.61	223.00±10.83	0.540
Mean TRL thickness (inferior, 5 mm)	232.54±13.66	230.46±14.06	231.50±13.57	0.789
Mean TRL thickness (nasal, 5 mm)	234.36±12.95	233.46±17.01	233.91±14.76	0.929
Mean TRL thickness (temporal, 5 mm)	189.73±16.54	197.82±12.12	193.77±14.75	0.154
Mean IRL thickness (superior, 5 mm)	151.55±8.12	151.73±10.55	151.64±9.18	0.929
Mean IRL thickness (inferior, 5 mm)	162.36±9.45	161.91±13.16	162.14±11.18	0.965
Mean IRL thickness (nasal, 5 mm)	167.55±11.90	163.91±14.38	165.73±13.01	0.331
Mean IRL thickness (temporal, 5 mm)	126.64±11.54	129.09±10.42	127.86±10.80	0.373

Mean GCC thickness (superior, 5 mm)	61.64±5.46	62.27±4.49	61.96±4.89	0.142
Mean GCC thickness (inferior, 5 mm)	69.73±7.19	68.36±8.31	69.05±7.62	0.327
Mean GCC thickness (nasal, 5 mm)	77.00±8.46	73.0±13.59	75.00±11.24	0.374
Mean GCC thickness (temporal, 5 mm)	50.64±6.90	49.36±4.29	50.00±5.65	0.247
Mean ORL thickness (superior, 5 mm)	73.09±7.57	69.64±6.50	71.36±7.11	0.755
Mean ORL thickness (inferior, 5 mm)	70.18±8.94	68.55±6.25	69.36±7.58	0.624
Mean ORL thickness (nasal, 5 mm)	68.82±6.55	69.55±4.99	68.18±5.85	0.266
Mean ORL thickness (temporal, 5 mm)	63.09±9.50	68.73±7.35	65.91±8.78	0.532

TRL, total retinal layer; ppRNFL, peripapillary retinal nerve fiber layer; IRL, inner retinal layer; ORL, outer retinal layer; GCC, ganglion cell complex; NFL, nerve fiber layer; GCL, ganglion cell layer; IPL, inner plexiform layer; INL, inner nuclear layer; OPL, outer plexiform layer; ONL, outer nuclear layer; RPE, retinal pigment epithelium.

4 Values represent Mean±SD

5 *p<0.05 based on Wilcoxon signed-rank test.

Supplementary Table S2. Comparison between each thickness of the perifovea, parafovea, and peripheral retina outside the vascular arcade in cynomolgus monkeys using optical coherence tomography

	Total	Superior	Inferior	Nasal	Temporal	p-value	p-value S. vs. I.	p-value S. vs N.	p-value S. vs. T.	p-value I. vs. N.	p-value I. vs. T.	p-value N. vs. T.
Mean TRL thickness (3 mm zone)	348.84±22.24	352.50±18.89	356.36±12.01	361.82±13.70	349.00±9.96	0.022	1.000	0.182	1.000	1.000	0.513	0.020
Mean TRL thickness (6 mm zone)	339.67±28.39	325.09±16.63	349.41±13.81	372.95±18.37	311.23±13.50	<0.001	<0.001	<0.001	0.026	<0.001	<0.001	<0.001
Mean IRL thickness (3 mm zone)	241.85±22.48	242.09±14.60	241.82±33.01	250.64±15.45	232.86±19.67	0.073	1.000	1.000	1.000	1.000	1.000	0.052
Mean IRL thickness	220.20±35.35	200.23±42.75	232.55±14.83	255.14±15.38	192.91±15.96	<0.001	<0.001	<0.001	1.000	0.023	<0.001	<0.001

(6 mm zone)												
Mean ORL thickness (3 mm zone)	110.77±11.47	110.41±12.10	110.32±12.28	110.86±10.62	111.50±11.58	0.986	1.000	1.000	1.000	1.000	1.000	1.000
Mean ORL thickness (6 mm zone)	117.73±7.51	116.64±7.43	117.05±5.58	117.86±8.34	119.36±8.57	0.645	1.000	1.000	1.000	1.000	1.000	1.000
Mean GCC thickness (3 mm zone)	103.44±12.47	105.00±12.13	109.32±12.21	103.82±12.07	95.64±9.97	0.002	1.000	1.000	0.055	0.724	0.001	0.132
Mean GCC thickness	107.34±25.60	96.73±119.36	119.36±12.59	137.14±12.54	76.14±6.90	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

(6 mm zone)												
Mean NFL thickness (3 mm zone)	22.63±4.00	24.32±2.85	26.36±3.79	21.55±2.04	18.27±0.99	<0.001	0.070	0.005	<0.001	<0.001	<0.001	0.001
Mean NFL thickness (6 mm zone)	61.44±15.07	45.00±11.04	62.73±10.37	75.32±10.77	62.73±10.37	<0.001	<0.001	<0.001	<0.001	0.001	1.000	0.001
Mean GCL thickness (3 mm zone)	45.27±5.25	45.14±4.06	44.82±7.09	46.77±3.52	44.36±5.61	0.457	1.000	1.000	1.000	1.000	1.000	0.794
Mean GCL thickness (6 mm zone)	31.25±3.35	29.27±1.75	32.05±2.38	34.55±2.70	29.14±3.12	<0.001	0.765	0.765	0.765	0.765	0.765	0.765

Mean IPL thickness (3 mm zone)	37.98±3.76	37.23±2.69	37.32±5.36	39.50±2.74	37.86±3.41	0.159	1.000	0.272	1.000	0.327	1.000	0.884
Mean IPL thickness (6 mm zone)	25.78±2.50	23.14±1.75	25.59±1.87	27.73±1.98	26.68±1.81	<0.001	<0.001	<0.001	<0.001	0.002	0.327	0.390
Mean INL thickness (3 mm zone)	39.27±5.13	39.64±4.71	38.86±6.89	40.50±3.83	38.09±4.59	0.450	1.000	1.000	1.000	1.000	1.000	0.741
Mean INL thickness (6 mm zone)	32.20±3.61	27.86±1.69	32.36±2.56	36.18±1.87	32.41±2.18	<0.001	<0.001	<0.001	<0.001	<0.001	1.000	<0.001
Mean OPL thickness	27.48±3.81	27.68±3.98	27.09±5.27	27.59±2.11	27.55±3.45	0.959	1.000	1.000	1.000	1.000	1.000	1.000

(3 mm zone)												
Mean OPL thickness (6 mm zone)	23.69±1.68	23.50±1.71	23.41±1.05	24.00±1.16	23.86±1.52	0.438	1.000	1.000	1.000	0.967	1.000	1.000
Mean ONL thickness (3 mm zone)	69.80±8.97	67.77±9.36	74.55±7.23	69.14±7.68	69.14±7.68	0.033	1.000	0.068	1.000	0.065	1.000	0.250
Mean ONL thickness (6 mm zone)	58.06±6.23	59.73±6.04	56.36±5.91	57.86±6.03	58.27±6.85	0.359	0.459	1.000	1.000	1.000	1.000	1.000
Mean RPE thickness (3 mm zone)	42.24±13.29	42.50±13.69	42.09±13.87	42.95±11.45	41.41±14.82	0.984	1.000	1.000	1.000	1.000	1.000	1.000

Mean RPE thickness (6 mm zone)	49.78±11.35	49.27±10.37	48.73±10.26	51.18±10.19	49.95±14.60	0.906	1.000	1.000	1.000	1.000	1.000	1.000
Mean TRL thickness (periphery)	220.55±20.88	223.00±10.83	231.50±13.57	233.91±14.76	193.77±14.75	<0.001	0.245	0.055	<0.001	1.000	<0.001	<0.001
Mean GCC thickness (periphery)	64.00±12.07	61.96±4.89	69.05±7.62	75.00±11.24	50.00±5.65	<0.001	0.019	<0.001	<0.001	0.076	<0.001	<0.001
Mean IRL thickness (periphery)	151.84±18.45	151.64±9.18	162.14±11.18	165.73±13.01	127.86±10.80	<0.001	0.014	<0.001	<0.001	1.000	<0.001	<0.001
Mean ORL thickness (periphery)	68.71±7.54	71.36±7.11	69.36±7.58	68.18±5.85	65.91±8.78	0.108	1.000	0.946	0.100	1.000	0.753	1.000

TRL, total retinal layer; SFCT, subfoveal choroidal thickness; ppRNFL, peripapillary retinal nerve fiber layer; GCL, ganglion cell layer; IPL, inner plexiform layer; INL, inner nuclear layer; OPL, outer plexiform layer; ONL, outer nuclear layer; RPE, retinal pigment epithelium; GCC,

ganglion cell complex; IRL, inner retinal layer; ORL, outer retinal layer; NFL, nerve fiber layer.

Scale : µm.

8 Values represent Mean±SD

*p<0.05 based on repeated ANOVA test with Bonferroni correction

#Bonferroni correction

Supplementary Table S3. Electroretinogram findings of cynomolgus monkeys (n = 11)

	Right eye	Left eye	Both	p-value between the right eye and left eye
Mean peak latency of b-wave in the scotopic 0.01 ERG (ms)	72.05±6.39	71.94±4.06	71.99±5.23	0.790
Mean amplitude of b-wave in the scotopic 0.01 ERG (μV)	100.32±21.29	92.41±27.72	96.36±24.46	0.075
Mean peak latency of a-wave in scotopic 3.0 ERG (ms)	14.75±1.02	14.82±1.03	14.78±1.00	0.953

Mean peak latency of b-wave in scotopic 3.0 ERG (ms)	32.96±1.82	32.83±1.88	32.89±1.81	0.720
Mean amplitude of a-wave in scotopic 3.0 ERG (ms)	127.22±30.82	129.50±33.98	128.36±31.68	0.859
Mean amplitude of b-wave in scotopic 3.0 ERG (ms)	131.70±27.09	133.73±26.86	132.71±26.34	0.789
b/a ratio	1.05±0.15	1.06±0.14	1.05±0.14	0.656
Mean peak latency of a-wave in scotopic 10.0 ERG (ms)	14.18±0.94	13.77±0.93	13.98±0.94	0.360
Mean peak latency of b-wave in	31.20±1.65	31.11±1.44	31.16±1.51	0.798

scotopic 10.0 ERG (ms)				
Mean amplitude of a-wave in the scotopic 10.0 ERG (μV)	89.82±26.54	92.12±24.79	90.97±25.09	0.594
Mean amplitude of b-wave in the scotopic 10.0 ERG (μV)	81.85±20.80	77.56±17.92	79.70±19.08	0.374
Mean amplitude of oscillatory potential (μV)	31.55±9.40	33.14±13.91	32.34±11.62	0.450
Mean peak latency of a-wave in photopic 3.0 ERG (ms)	12.91±1.07	12.91±1.04	12.91±1.03	0.931

Mean peak latency of b-wave in photopic 3.0 ERG (ms)	31.92±2.16	31.66±2.26	31.79±2.16	0.553
Mean amplitude of a-wave in photopic 3.0 ERG (μV)	27.00±7.77	27.26±7.37	27.13±7.39	0.790
Mean amplitude of b-wave in photopic 3.0 ERG (μV)	81.47±22.38	78.24±16.39	79.86±19.21	0.328
Mean amplitude of photopic 3.0 flicker ERG (μV)	101.21±29.55	98.06±23.76	99.63±26.21	0.508

ERG = electroretinogram

Values represent Mean±SD

* $p<0.05$ based on Wilcoxon signed-rank test.

Supplementary Table S4. Age-related comparison in Electrophysiology of cynomolgus monkeys (n = 11)

	Adolescent (under 5 years of age)	Young adult (above 7 years of age)	All	p-value between two subgroups
Mean peak latency of a-wave in scotopic 3.0 ERG (ms)	14.45±0.94	15.67±0.49	14.78±1.00	0.021
Mean peak latency of a-wave in photopic 3.0 ERG (ms)	12.63±1.05	13.65±0.46	12.91±1.03	0.027
Mean peak latency of b-wave in photopic 3.0 ERG (ms)	31.29±2.14	33.12±1.73	31.79±2.16	0.049
Mean peak latency of the n2 wave in flash VEP (ms)	41.59±6.67	34.67±3.75	39.71±6.71	0.033

Mean amplitude of the n2 wave in flash VEP (μV)	17.38±7.57	9.39±6.78	15.21±8.07	0.027
Mean amplitude of the p2 wave in flash VEP (μV)	32.59±10.61	13.22±2.32	27.06±12.67	<0.001
Mean amplitude of the n4 wave in flash VEP (μV)	27.61±10.14	15.80±5.61	24.39±10.48	0.021

ERG, electroretinogram; VEP, visual evoked potentials

Values represent Mean±SD

* $p<0.05$ based on the Mann-Whitney U test

Supplementary Table S5. The results of normative data in other previous studies

Examination	Authors and journal	Species	Age, Number	Each result of mean value in each parameter
Ocular biometry	Fernandes A et al. IOVS 2003	Rhesus monkey (*Macaca mulatta*)	5 to 31 years of age, 111monkey (55 females and 56 males)	1. AL: : 18.3-23.8 (around 20) mm 2. VCD : 10.9-15.7 (around 12) mm 3. ACD : 3.3-4.0 (around 3.5) mm
	Bhardwaj et al. J Clin Diagn Res. 2013	Human (India)	0 to 10, 11 to 20, and >40 years of age, 240 patients (120 females and 120 males)	1. AL of male : 21.22-24.07 mm 2. AL of female : 21.29-24.18 mm With Myopia, emmetropia, hypermetropia
	Augusteyn et al. IOVS 2016	Hamadryas baboons, Cynomolgus monkey (*Macaca fascicularis*),	23 to 360 months of age, 98 hamadryas baboons (no available male to female ratio), 485 cynomolgus monkeys (17 females and 468 males), and 112 rhesus	1. AL of Baboon : 20.84 mm 2. AL of Cynomolgus : 18.90 mm 3. AL of Rhesus : 20.30 mm

		Rhesus monkey (*Macaca mulatta*)	monkeys (no available male to female ratio)	
	Augusteyn et al. Exp Eye Res. 2012	Human	1 day to 104 years of age, 541 postmortem eyes (78 females and 139 males for AL, 108 females and 169 males for horizontal corneal diameter)	1. AL of horizontal axis : 24.26 mm 2. AL of vertical axis : 24.16 mm 3. LT : around 4mm 4. Lens equatorial diameter : 8mm 5. corneal horizontal diameter : 11.81 mm
	Wendt et al. Exp Eye Res. 2008	Rhesus monkey (*Macaca mulatta*)	4 to 33 years of age, 33 monkeys (no available data for gender)	1. LT : 7.5-8.5 mm (unaccommodated)
OCT measurement	Denk et al. PLOS ONE 2019	Cynomolgus monkey (*Macaca fascicularis*)	30 to 50 months of age, 160 monkeys (80 female and 80 male)	1. TRT on the fovea : 244 μm 2. TRT on the 4 quadrants in the inner ring and outer ring : 341 (superior inner), 339 (inferior inner), 341 (nasal inner), 327 (temporal inner), 320 (superior outer), 332 (inferior outer), 337 (nasal outer), and 299 (temporal outer) μm

	Yiu et al. Eye Eye Res. 2018	Rhesus monkey (*Macaca mulatta*)	10 to 27 years of age, 6 adult monkeys (4 females and 2 males)	1. TRT 304, NFL 16.8, GCL 27.0, IPL 33.6, INL 30.7, OPL 22.5, ONL 84, RPE 15.3 μm on the central 3mm segment
	Patel et al. Ophthalmology 2016	Human (92.1 % white, 2.5% Asian, and 2.8 % Black)	40 to 69 years of age, 32062 adults (17274 females and 14788 males)	1. TRT on the fovea : 264.5 μm 2. older age, female gender, greater myopia, smoking, body mass index (BMI), and white ethnicity are related to TRL
VEP	Givre et al. Vision Res. 1994	Cynomolgus monkey (*Macaca fascicularis*)	No age information 3 monkeys (all males)	1. N40, P55-80 wave were from major striate (V1) contribution 2. N95, P120 were from V4
	Fortune et al. IOVS 2005	Rhesus monkey (Macaca mulatta)	4 to 19 years, 22 healthy monkeys (all females)	1. N96 : around 100 msec
	Creel et al. Experimental neurology 1973	Stump-tailed monkey (*Macaca arctoides*), Human	2 to 3 years of age, 10 monkeys (female 6 and male 4) 29-48 years of age, 10	1. VEP of Cynomolgus monkey P20 : 31.7 ms, p30 : undetectable, N70 : 61 ms, p100 : 92 ms, N150 : 150 ms 2. VEP of Human

			human subjects (all males)	P20 : 26.4 ms, p30 : 52 ms, N70 : 83.6 ms, p100 : 115.1 ms, N150 : 154.6 ms
ERG	Bouskilla et al. PLOS ONE 2014	Green Monkey (*Chlorcebus sabaeus*)	3 to 4 years of age, 15 monkeys (13 female and 2 male)	1. Scotopic 3.0 ERG the a-wave peak latency : 14.8 ms the b-wave peak latency : 36.7 ms 2. Photopic 3.0 ERG the a-wave peak latency : 12.3 ms the b-wave peak latency : 27.7 ms
	Liu et al. Toxicology Research and Application 2017	Cynomolgus monkeys (*Macaca fascicularis*)	4 to 5 years of age, 4 adult control monkeys (2 females and 2 males)	1. Scotopic 3.0 ERG the b-wave peak latency : 41 ms 2. Photopic 3.0 ERG the b-wave peak latency : 26 ms
	Birch et al. Arch Ophthalmol. 1992	Human (90 % Caucasian and 10% Asian and Hispanic)	5 to 79 years of age, 269 normal subjects (92 males and 137 females)	1. Scotopic 3.0 ERG the b-wave peak latency : 35.5 – 62.8 ms 2. Photopic 3.0 ERG the b-wave peak latency : 28.2-42.1 ms 3. b-wave peak latency increased with age for all responses

AL, axial length; ACD, anterior chamber depth; VCD, vitreous chamber depth; LT, lens thickness; OCT, optical coherence tomography; VEP, visual evoked potentials; ERG, electroretinogram; TRT, total retinal thickness; NFL, nerve fiber layer; GCL, ganglion cell layer; IPL, inner plexiform layer; INL, inner nuclear layer; OPL, outer plexiform layer; ONL, outer nuclear layer; RPE, retinal pigment epithelium; ms, milliseconds.