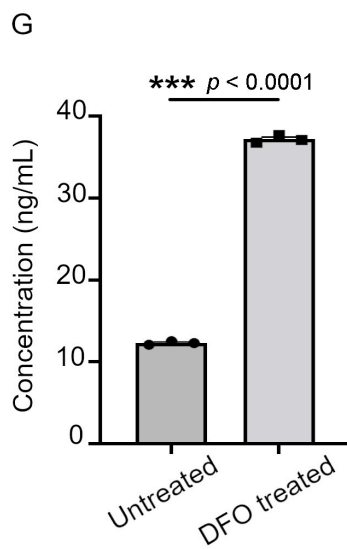
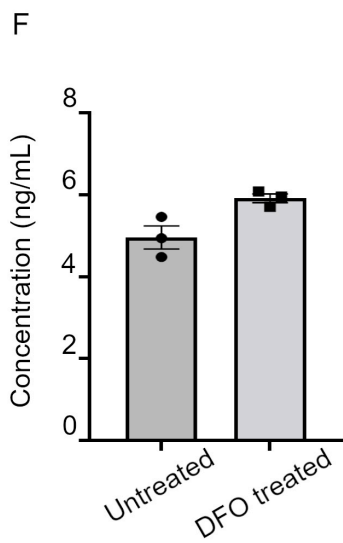
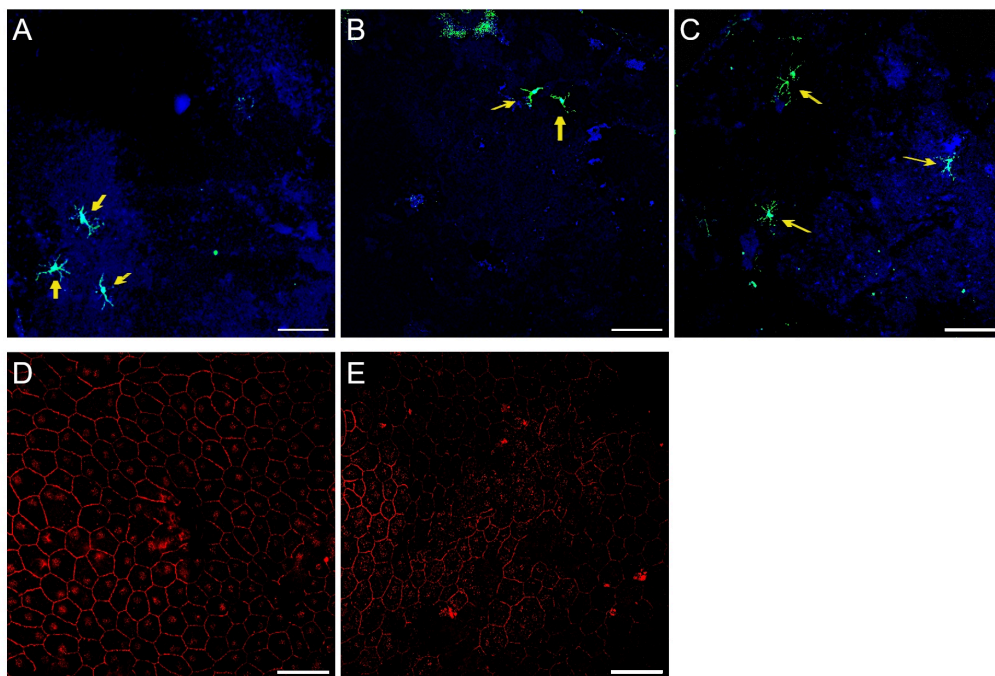


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Appendix Figure S1

(A) Representative images of the immunohistochemistry (IHC) against IBA1 to detect the presence of microglia in the mouse RPE collected from the one-year-old mice subject to DFO treatment for 10 months. Scale bar: 100 μm .

(B, C) The RPE of the age-matched C57BL/6J mice was used as the control. Scale bar: 100 μm .

(D) Representative images of the IHC against ZO1 to characterize RPE cell morphology in the mice subject to DFO treatment for 10 months. Scale bar: 50 μm .

(E) Age-matched RPE from the C57BL/6J mice was used as the control. Scale bar: 50 μm .

(F) Measurement of secreted VEGFA by enzyme linked immunosorbent assay in the cultured iRPE cells subject to DFO treatment for 24 hours.

(G) Measurement of secreted VEGFA by enzyme linked immunosorbent assay in the cultured iRPE cells subject to DFO treatment for 48 hours.

Data information: (F, G) Paired student's *t*-test was used for analyzing statistical significance.

The results are presented as mean $\pm$ S.E.M. $n = 4$ iRPE lines for each group. *** $p < 0.0001$.

Case I			Case II			Case III			Case IV			Normal Range (male, ng/mL)
Date	Blood test	Test results (ng/mL)	Date	Blood test	Test results (ng/mL)	Date	Blood test	Test results (ng/mL)	Date	Blood test	Test results (ng/mL)	
4-25-04	Ferritin	340	10-8-02	Ferritin	2107	2012-08-10	Ferritin	439	3-22-17	Ferritin	305.3	23.9 - 336.2
7-20-04	Ferritin	358	4-22-03	Ferritin	2354				8-2-18	Ferritin	1650	
11-9-04	Ferritin	309	10-7-03	Ferritin	2286	8-24-18	Ferritin	1358	6-27-17	Ferritin	286	
2-15-05	Ferritin	386	4-6-04	Ferritin	1193	9-7-18	Ferritin	1627	8-10-17	Ferritin	304	
5-10-05	Ferritin	336	10-12-04	Ferritin	1414	9-21-18	Ferritin	1102	11-6-17	Ferritin	261	
5-24-05	Ferritin	332	4-8-05	Ferritin	1409	10-5-18	Ferritin	1650	12-19-17	Ferritin	299	
8-30-05	Ferritin	492	10-28-05	Ferritin	1136	10-19-18	Ferritin	1258	1-19-18	Ferritin	324	
11-30-05	Ferritin	524	6-2-06	Ferritin	1570	11-21-18	Ferritin	1340	2-20-18	Ferritin	332	
2-21-06	Ferritin	437.5	11-10-06	Ferritin	977.2	12-7-18	Ferritin	1335	5-30-18	Ferritin	306	
4-4-06	Ferritin	603.8	2-2-07	Ferritin	1630	12-21-18	Ferritin	1459	8-7-18	Ferritin	279	
4-13-06	Ferritin	638.5	2-27-07	Ferritin	1567	1-18-19	Ferritin	1268	11-13-18	Ferritin	331	
5-2-06	Ferritin	1017	3-20-07	Ferritin	1321	1-31-19	Ferritin	1270	12-11-18	Ferritin	342	
5-23-06	Ferritin	1086.9	4-13-07	Ferritin	1266	2-15-19	Ferritin	1558	2-19-19	Ferritin	328	
6-13-06	Ferritin	835.1	5-4-07	Ferritin	2738	2-28-19	Ferritin	1650	5-17-19	Ferritin	250	
8-8-06	Ferritin	1287.1	6-1-07	Ferritin	3478	3-15-19	Ferritin	1540	8-28-19	Ferritin	243	
9-12-06	Ferritin	1283.7	6-22-07	Ferritin	2087	3-29-19	Ferritin	1571	12-17-19	Ferritin	327	
10-10-06	Ferritin	1339	7-13-07	Ferritin	2575	4-12-19	Ferritin	1744	1-27-20	Ferritin	328	
11-7-06	Ferritin	1383.6	8-3-07	Ferritin	2293	4-26-19	Ferritin	1650	4-14-20	Ferritin	354	
12-5-06	Ferritin	1367.8	10-26-07	Ferritin	1554	5-17-19	Ferritin	1452.6	7-9-20	Ferritin	261	
1-4-07	Ferritin	1404.2	2-15-08	Ferritin	2882	6-14-19	Ferritin	1650	9-22-20	Ferritin	365	
1-30-07	Ferritin	1427.8	7-7-08	Ferritin	1605	6-28-19	Ferritin	1648.8	12-14-20	Ferritin	391	
2-27-07	Ferritin	1416	10-17-08	Ferritin	1412	7-12-19	Ferritin	2070	2-28-21	Ferritin	503	
3-27-07	Ferritin	1403.5	3-20-09	Ferritin	2256	7-26-19	Ferritin	1689	4-15-21	Ferritin	509	
5-8-07	Ferritin	1410	12-25-09	Ferritin	1517	8-9-19	Ferritin	2042	7-1-21	Ferritin	396	
6-12-07	Ferritin	1383	1-21-11	Ferritin	1346	8-28-19	Ferritin	1848	8-23-21	Ferritin	418	
7-17-07	Ferritin	1429.5	5-27-11	Ferritin	918.2	9-13-19	Ferritin	1655.3	11-9-21	Ferritin	439	
8-1-07	Ferritin	1801	8-19-11	Ferritin	1078	9-27-19	Ferritin	1633	3-4-22	Ferritin	575	
8-28-07	Ferritin	1357.5	12-23-11	Ferritin	953.9	10-11-19	Ferritin	1806	6-9-22	Ferritin	328	
9-11-07	Ferritin	1228.4	4-27-12	Ferritin	554	10-25-19	Ferritin	1573.4	9-8-22	Ferritin	481	
10-9-07	Ferritin	935.3	8-24-12	Ferritin	1343	11-8-19	Ferritin	1547	10-6-22	Ferritin	514	
11-6-07	Ferritin	956.1	12-7-12	Ferritin	3910	11-22-19	Ferritin	1821				
12-4-07	Ferritin	1060.9	5-10-13	Ferritin	3381	12-12-19	Ferritin	1775				
1-2-08	Ferritin	964.5	10-4-13	Ferritin	2974	12-27-19	Ferritin	1650				
1-15-08	Ferritin	780	3-28-14	Ferritin	5356 (R)	2-13-20	Ferritin	2500.4				
2-14-08	Ferritin	562.2	8-8-14	Ferritin	2563	3-6-20	Ferritin	1376				
4-8-08	Ferritin	403.5	1-16-15	Ferritin	2150	3-20-20	Ferritin	1432				
6-17-08	Ferritin	331.9	5-19-15	Ferritin	2095	4-3-20	Ferritin	1554				
8-12-08	Ferritin	432.1	9-4-15	Ferritin	1971	5-1-20	Ferritin	1650				
9-16-08	Ferritin	360	1-29-16	Ferritin	2707	5-15-20	Ferritin	1795				
10-7-08	Ferritin	362.4	7-15-16	Ferritin	2686	5-29-20	Ferritin	1774				
11-4-08	Ferritin	476.7	1-24-17	Ferritin	6030	6-12-20	Ferritin	1951.2				
12-2-08	Ferritin	440.6	6-16-17	Ferritin	5024	6-26-20	Ferritin	1909.2				
1-13-09	Ferritin	587.8	10-20-17	Ferritin	4097	7-10-20	Ferritin	1983.9				
2-10-09	Ferritin	540.2	7-13-18	Ferritin	3304	7-24-20	Ferritin	1935				
3-10-09	Ferritin	583.9	2-1-19	Ferritin	3418							
5-5-09	Ferritin	454.8	8-30-19	Ferritin	1453							
5-21-09	Ferritin	449.2	10-4-19	Ferritin	1555							
8-11-09	Ferritin	442.9	4-10-20	Ferritin	2031							
8-25-09	Ferritin	446.4	11-23-20	Ferritin	1845							
11-17-09	Ferritin	413	8-6-21	Ferritin	1523							
2-9-10	Ferritin	312.1	12-10-21	Ferritin	1805							
5-4-10	Ferritin	261.8	5-27-22	Ferritin	1118							
8-3-10	Ferritin	479										
9-7-10	Ferritin	358.5										
11-2-10	Ferritin	277.9										
2-10-11	Ferritin	462.2										
3-3-11	Ferritin	498.8										
5-18-11	Ferritin	622.8										
6-14-11	Ferritin	737.1										
6-18-11	Ferritin	861.8										
6-20-11	Ferritin	1014										
6-21-11	Ferritin	880.1										
6-22-11	Ferritin	839.8										
6-23-11	Ferritin	916.2										
6-28-11	Ferritin	822.7										
7-12-11	Ferritin	667.6										
8-30-11	Ferritin	668.6										
10-11-11	Ferritin	725.2										
11-8-11	Ferritin	819.1										
12-31-11	Ferritin	825										
1-10-12	Ferritin	830.7										
2-29-12	Ferritin	663.9										
4-24-12	Ferritin	834.6										
6-13-12	Ferritin	973.1										
7-30-12	Ferritin	1030.3										
9-3-12	Ferritin	982.9										
9-19-12	Ferritin	1145.2										

Appendix Table S1. The patients' blood test results of ferritin over the course of chelation therapy. The most recent test of ferritin before their initial visit to the clinic of ophthalmology was highlighted in bold.