

Supplementary

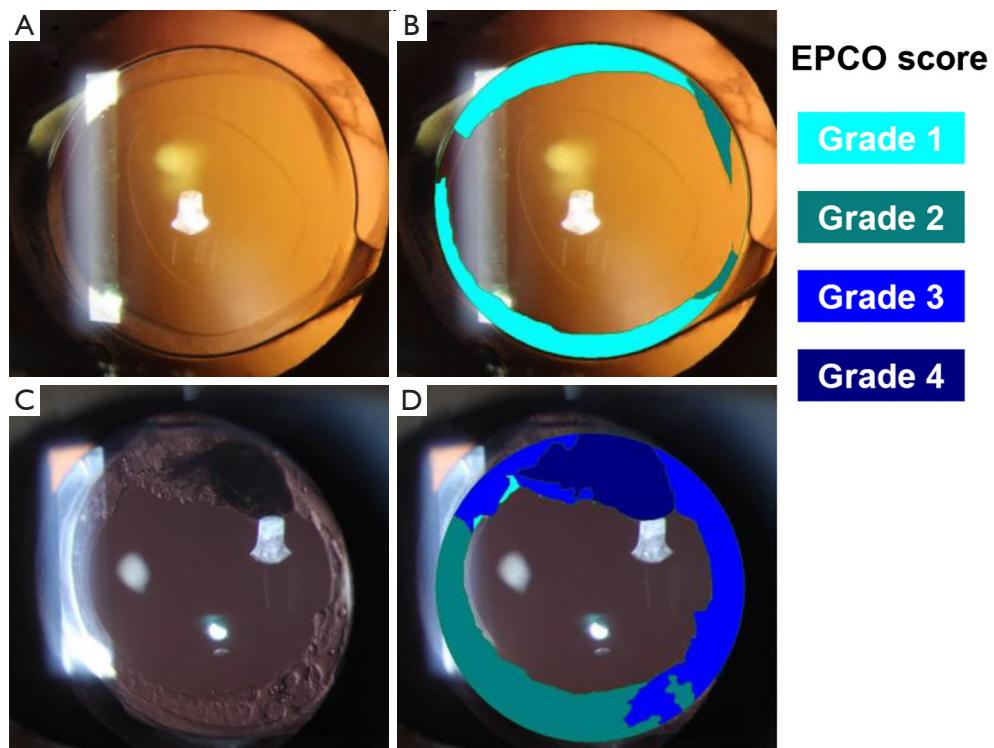


Figure S1 EPCO score assessments. (A) Slit lamp retroillumination photograph shot 3 months after the surgery; (B) evaluation of PCO in the pseudophakic eye of (A); (C) slit lamp retroillumination photograph shot 1 year after the surgery; (D) evaluation of PCO in the pseudophakic eye of (C). EPCO, evaluation of posterior capsule opacification; PCO, posterior capsule opacification.

Table S1 Spearman correlation of microenvironment and age

Cytokine	Parameter	EGF	FGF-2	G-CSF	GM-CSF	IFN- α 2	IL-10	IL-12p40	IL-12p70	IL-13	IL-1RA	IL-1 α	IL-1 β	IL-2	IL-3	IL-4	IL-5	IL-6	IL-7	IL-8	MCP-1	TNF- α	IFN- γ	Age
EGF	p	1.000	0.337**	0.012	0.451**	-0.113	0.326**	0.213	0.501**	0.316*	-0.158	0.078	0.483**	0.129	0.584**	0.499**	0.514**	0.300*	0.059	-0.024	-0.118	0.459**	0.209	0.281*
	P (two-tailed)	-	0.006	0.925	0.000	0.372	0.008	0.088	0.000	0.010	0.208	0.535	0.000	0.305	0.000	0.000	0.015	0.642	0.851	0.348	0.000	0.095	0.024	
FGF-2	p	0.337**	1.000	-0.105	0.515**	-0.212	0.521**	0.100	0.532**	0.341**	0.078	-0.171	0.559**	0.025	0.681**	0.659**	0.598**	0.192	0.055	-0.122	-0.152	0.598**	0.087	0.012
	P (two-tailed)	0.006	-	0.404	0.000	0.089	0.000	0.430	0.000	0.005	0.539	0.172	0.000	0.845	0.000	0.000	0.000	0.126	0.664	0.333	0.227	0.000	0.492	0.926
G-CSF	p	0.012	-0.105	1.000	-0.175	0.846**	0.135	0.108	0.121	0.482**	0.514**	0.473**	-0.233	0.263*	-0.183	-0.326**	-0.300*	0.151	0.746**	0.211	0.177	0.179	0.255*	-0.123
	P (two-tailed)	0.925	0.404	-	0.163	0.000	0.284	0.392	0.337	0.000	0.000	0.062	0.034	0.144	0.008	0.015	0.229	0.000	0.091	0.158	0.153	0.040	0.328	
GM-CSF	p	0.451**	0.515**	-0.175	1.000	-0.209	0.639**	0.344**	0.518**	0.208	-0.191	-0.070	0.665**	0.040	0.536**	0.614**	0.726**	0.411**	-0.046	0.178	0.126	0.494**	0.186	0.028
	P (two-tailed)	0.000	0.000	0.163	-	0.095	0.000	0.005	0.000	0.096	0.128	0.581	0.000	0.754	0.000	0.000	0.000	0.001	0.717	0.156	0.316	0.000	0.139	0.823
IFN- α 2	p	-0.113	-0.212	0.846**	-0.209	1.000	-0.021	0.079	0.027	0.385**	0.636**	0.492**	-0.373**	0.268*	-0.282*	-0.397**	-0.388**	0.025	0.743**	0.234	0.217	0.097	0.181	-0.191
	P (two-tailed)	0.372	0.089	0.000	0.095	-	0.869	0.530	0.832	0.002	0.000	0.002	0.031	0.023	0.001	0.001	0.842	0.000	0.061	0.082	0.444	0.150	0.128	
IL-10	p	0.326**	0.521**	0.135	0.639**	-0.021	1.000	0.128	0.706**	0.524**	-0.017	-0.081	0.578**	0.121	0.560**	0.596**	0.667**	0.566**	0.266*	0.329**	0.221	0.685**	0.244*	-0.111
	P (two-tailed)	0.008	0.000	0.284	0.000	0.869	-	0.311	0.000	0.000	0.890	0.522	0.000	0.339	0.000	0.000	0.000	0.000	0.033	0.007	0.077	0.000	0.050	0.378
IL-12p40	p	0.213	0.100	0.108	0.344**	0.079	0.128	1.000	0.073	-0.092	-0.039	0.188	0.197	0.280*	-0.035	0.142	0.300*	0.164	-0.032	0.005	0.047	0.103	0.330**	-0.035
	P (two-tailed)	0.088	0.430	0.392	0.005	0.530	0.311	-	0.561	0.464	0.758	0.134	0.115	0.024	0.782	0.258	0.015	0.191	0.801	0.971	0.713	0.414	0.007	0.779
IL-12p70	p	0.501**	0.532**	0.121	0.518**	0.027	0.706**	0.073	1.000	0.439**	-0.015	-0.128	0.538**	0.023	0.713**	0.656**	0.678**	0.486**	0.323**	0.060	-0.056	0.861**	0.091	0.180
	P (two-tailed)	0.000	0.000	0.337	0.000	0.832	0.000	0.561	-	0.000	0.905	0.311	0.000	0.858	0.000	0.000	0.000	0.009	0.634	0.660	0.000	0.473	0.151	
IL-13	p	0.316*	0.341**	0.482**	0.208	0.385**	0.524**	-0.092	0.439**	1.000	0.388**	0.123	0.114	0.090	0.313*	0.242	0.199	0.248*	0.558**	0.255*	0.060	0.504**	0.150	-0.078
	P (two-tailed)	0.010	0.005	0.000	0.096	0.002	0.000	0.464	0.000	-	0.001	0.328	0.367	0.475	0.011	0.052	0.111	0.047	0.000	0.041	0.636	0.000	0.232	0.539
IL-1RA	p	-0.158	0.078	0.514**	-0.191	0.636**	-0.017	-0.039	-0.015	0.388**	1.000	0.389**	-0.356**	0.265*	-0.170	-0.272*	-0.302*	-0.052	0.595**	0.044	-0.002	0.034	0.103	-0.162
	P (two-tailed)	0.208	0.539	0.000	0.128	0.000	0.890	0.758	0.905	0.001	-	0.001	0.004	0.033	0.177	0.028	0.015	0.680	0.000	0.731	0.990	0.785	0.415	0.196
IL-1 α	p	0.078	-0.171	0.473**	-0.070	0.492**	-0.081	0.188	-0.128	0.123	0.389**	1.000	-0.233	0.506**	-0.298*	-0.243	-0.310*	0.089	0.260*	0.228	0.283*	-0.047	0.379**	-0.184
	P (two-tailed)	0.535	0.172	0.000	0.581	0.000	0.522	0.134	0.311	0.328	0.001	-	0.062	0.000	0.016	0.052	0.012	0.482	0.037	0.068	0.022	0.708	0.002	0.142
IL-1 β	p	0.483**	0.559**	-0.233	0.665**	-0.373**	0.578**	0.197	0.538**	0.114	-0.356**	-0.233	1.000	-0.111	0.677**	0.729**	0.770**	0.248*	-0.111	-0.007	-0.079	0.474**	0.287*	0.178
	P (two-tailed)	0.000	0.000	0.062	0.000	0.002	0.000	0.115	0.000	0.367	0.004	0.062	-	0.378	0.000	0.000	0.000	0.047	0.380	0.957	0.530	0.000	0.020	0.157
IL-2	p	0.129	0.025	0.263*	0.040	0.268*	0.121	0.280*	0.023	0.090	0.265*	0.506**	-0.111	1.000	0.027	-0.027	-0.050	0.046	0.242	0.120	0.205	0.095	0.246*	-0.045
	P (two-tailed)	0.305	0.845	0.034	0.754	0.031	0.339	0.024	0.858	0.475	0.033	0.000	0.378	-	0.829	0.830	0.692	0.716	0.052	0.343	0.102	0.453	0.048	0.720
IL-3	p	0.584**	0.681**	-0.183	0.536**	-0.282*	0.560**	-0.035	0.713**	0.313*	-0.170	-0.298*	0.677**	0.027	1.000	0.851**	0.712**	0.137	0.091	-0.189	-0.284*	0.719**	0.180	0.294*
	P (two-tailed)</																							

Table S2 Multivariate analyses of non-age-correlated cytokines

Cytokine	Predictor	Standardized coefficient (β)	P	Adjusted R square	Significance of regression in ANOVA
G-CSF	IFN- α 2	0.576	<0.001	0.745	<0.001
	IL-1 α	0.397	<0.001		
	IL-7	0.208	0.007		
GM-CSF	IL-10	0.317	<0.001	0.785	<0.001
	IL-12p40	0.302	<0.001		
	IL-1 β	0.185	0.037		
IL-10	IL-4	0.452	<0.001	0.917	<0.001
	GM-CSF	0.265	<0.001		
	IL-5	0.822	<0.001		
IL-12p40	GM-CSF	0.227	0.031	0.490	<0.001
	IL-1 α	0.299	0.014		
	IL-6	0.284	0.017		
IL-12p70	IL-8	0.174	0.096	0.840	<0.001
	IL-1 β	0.219	0.006		
	IL-3	0.447	<0.001		
IL-13	IL-7	0.609	<0.001	0.807	<0.001
	IFN- α 2	0.308	0.001		
	IL-10	0.394	<0.001		
	IL-1RA	0.420	<0.001		
	IL-3	0.216	0.001		
IL-1RA	IL-7	0.205	0.003	0.594	<0.001
	IFN- α 2	0.293	0.013		
	IL-13	0.720	<0.001		
	IL-5	-0.290	0.004		
IL-1 α	IL-7	-0.230	0.026	0.748	<0.001
	G-CSF	0.762	<0.001		
	IFN- α 2	-0.507	<0.001		
	IL-2	0.407	<0.001		
	IL-3	-0.220	0.002		
IL-2	IFN- γ	0.323	0.001	0.578	<0.001
	G-CSF	-0.488	0.004		
	IFN- α 2	0.355	0.012		
	IL-1 α	0.600	<0.001		
IL-4	IFN- γ	0.372	0.001	0.858	<0.001
	EGF	0.456	<0.001		
	GM-CSF	0.132	0.085		
IL-5	IL-3	0.463	<0.001	0.858	<0.001
	IL-10	0.928	<0.001		
	IFN- α 2	0.560	<0.001		
IL-7	IL-12p70	0.969	<0.001	0.829	<0.001
	TNF- α	-0.522	<0.001		
	TNF- α	-0.522	<0.001		
TNF- α	EGF	0.487	<0.001	0.823	<0.001
	IL-13	0.295	<0.001		
	IL-3	0.370	<0.001		
	IL-6	0.145	0.008		
IFN- γ	IL-1 α	0.277	0.008	0.619	<0.001
	IL-1 β	0.346	<0.001		
	IL-2	0.424	<0.001		