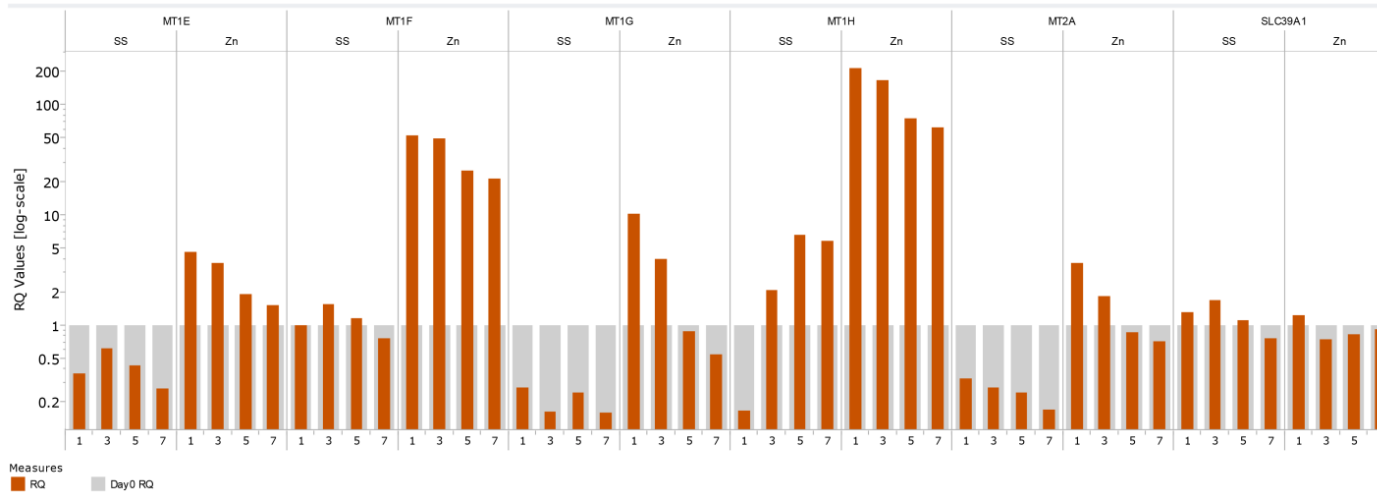


Assay	Day1 SS		Day1 Zn		Day3 SS		Day3 Zn		Day5 SS		Day5 Zn		Day7 SS		Day7 Zn	
	RQ	P-Value	RQ	P-Value	RQ	P-Value	RQ	P-Value	RQ	P-Value	RQ	P-Value	RQ	P-Value	RQ	P-Value
MT1E	0.4	0.410	4.7	0.160	0.6	0.216	3.7	0.262	0.4	0.113	1.9	0.110	0.3	0.039	1.5	0.298
MT1F	1.0	0.989	53.3	0.008	1.6	0.470	49.9	0.007	1.2	0.822	25.2	0.017	0.8	0.660	21.6	0.018
MT1G	0.3	0.180	10.3	0.271	0.2	0.024	4.0	0.090	0.2	0.018	0.9	0.848	0.2	0.198	0.5	0.421
MT1H	0.2		216.1	0.113	2.1	0.825	167.4	0.138	6.6	0.471	75.5	0.179	5.8	0.496	62.8	0.191
MT2A	0.3	0.463	3.7	0.292	0.3	0.162	1.9	0.596	0.2	0.164	0.9	0.802	0.2	0.066	0.7	0.577
SLC39A1	1.3	0.552	1.2	0.495	1.7	0.236	0.8	0.200	1.1	0.630	0.8	0.341	0.8	0.232	0.9	0.769



Appendix 6. **The effect of zinc supplementing SFM cultures of ARPE-19** Table of qPCR quantitation of metallothionein and zinc transporter gene expression in SFM ARPE19 cultures (SS) and Zn-supplemented SFM ARPE19 cultures (Zn). RQ = relative quantity. All values are relative to the Day0 serum supplemented value. Bar chart shows the gene expression values of the metallothionein genes and the zinc transporter SLC39A1 during SFM culture and Zn-supplemented SFM culture. The grey bars represent the Day0 calibrator value. Orange bars represent the sample ratio to day 0; bars extending above the grey bars indicate increased expression, bars ending below the grey bars indicate decreased expression.