

Supplementary Table S4: Estimation of SOD isoforms activity

Sample type		Level of SOD activity (U/mg protein)		
		Total SOD	Cu/Zn-SOD	Mn-SOD
LE	CL (n=10)	200.73 ± 25.71 (165.00 to 244.00)	160.63 ± 25.36 (128.33 to 199.33)	39.37 ± 6.67 (31.67 to 49.00)
	CT (n=29)	105.12 ± 26.68 [*] (58.67 to 155.67)	74.36 ± 21.84 [*] (37.33 to 120.00)	30.30 ± 7.37 [*] (18.00 to 47.33)
	NC (n=12)	95.95 ± 8.80 [*] (84.33 to 116.33)	67.07 ± 10.90 [*] (54.33 to 84.67)	28.88 ± 5.97 [*] (18.00 to 39.33)
	CC (n=9)	138.96 ± 10.35 [*] (120.33 to 155.67)	100.67 ± 11.69 [*] (85.33 to 120.00)	37.19 ± 5.65 ^{**} (29.33 to 47.33)
	PSC (n=8)	80.79 ± 16.33 [*] (58.67 to 104.33)	55.71 ± 14.34 [*] (37.33 to 79.67)	24.67 ± 4.17 [*] (18.00 to 29.67)
LN	CL (n=10)	11.54 ± 2.35 (8.70 to 15.80)	10.31 ± 2.14 (8.00 to 14.20)	1.23 ± 0.28 (0.90 to 1.60)
	CT (n=29)	4.43 ± 2.63 [#] (1.70 to 15.0)	3.89 ± 2.41 [#] (1.50 to 13.50)	0.54 ± 0.34 [#] (0.20 to 1.50)
	NC (n=12)	3.98 ± 0.48 [*] (2.90 to 4.80)	3.50 ± 0.45 [*] (2.70 to 4.30)	0.48 ± 0.28 [*] (0.20 to 1.10)
	CC (n=9)	6.88 ± 3.51 [*] (4.80 to 15.00)	6.14 ± 3.18 [*] (3.90 to 13.50)	0.73 ± 0.42 [*] (0.40 to 1.50)
	PSC (n=8)	2.35 ± 0.34 [*] (1.70 to 2.70)	1.95 ± 0.26 [*] (1.50 to 2.40)	0.40 ± 0.23 [*] (0.20 to 0.90)

* p<0.001; **p=0.45 - student t-test; # p<0.05-Mann-Whitney U test, values in parenthesis-range of activity, CL: clear lens, CT: cataract lens, NC: nuclear cataract, CC: cortical cataract, PSC: posterior subcapsular cataract, LE: lens epithelium, LN: lens nucleus