Supplementary Table SII **Expression of apoptotic proteins in live X and Y spermatozoa cultured for 3 days under various conditions.**

Apoptotic protein	Culture period	Medium pH	Total sperm counted	% Sperm alive, mean (SD)		% of live sperm expressing protein, mean (SD)	
				X sperm	Y sperm	X sperm	Y sperm
Bcl2	Initial	7.5	3246	68 (1.9)*	66 (1.8)*	89 (3.8)	87 (5.4)[a]
	Day 3	7.5	3207	39 (4.6)	33 (4.7)†	84 (3.3)	79 (4.7)[a]
		8.5	3242	36 (5.3)	26 (4.1)†	88 (3.9)	69 (1.2)[b†]
Bax	Initial	7.5	3148	66 (3.0)*	65 (0.9)*	7 (3.3)[a]	6 (2.0)[a]
	Day 3	7.5	3095	40 (1.5)	36 (2.6)†	33 (1.8)[b]	37 (3.7)[b]
		8.5	3359	37 (1.3)	29 (2.2)†	65 (4.0)[b]	74 (5.0)[c†]
Caspase-3	Initial	7.5	3218	68 (2.2)*	68 (2.0)*	8 (1.1)[a]	9 (0.7)[a]
	Day 3	7.5	2452	34 (3.6)	29 (3.4)†	29 (4.2)[b]	36 (4.8)[b]
		8.5	2482	36 (2.2)	26 (2.3)†	56 (2.2)[c]	68 (4.6)[c†]
DNA damage	Initial	7.5	2904	60 (3.7)*	61 (4.5)*	2 (1.2)[a]	2 (1.3)[a]
	Day 3	7.5	2977	53 (0.6)	49 (1.0)†	10 (3.7)[b]	16 (1.6)[b†]
		8.5	3343	44 (3.8)	36 (4.3)†	8 (0.7)[c]	21 (4.9)[c†]
		8.5 + Tocoerol	3240	51 (2.9)	41 (3.1)†	7 (0.4)[b]	9 (0.5)[d†]

Data are from three independent measurements.
*Significant difference in sperm viability in vertical column ($P < 0.05$).
†Significant difference between X and Y spermatozoa ($P < 0.05$).
Different superscripts indicate significant differences in expression of apoptotic proteins in vertical column ($P < 0.05$).