

Table S1. Comparison of two patient cohorts using a Kaplan-Meier survival plot and characteristics of these patients in the KM Plotter database.

Clinicopathological characteristics	AURKA		BIRC5		BUB1B		CCNA2		CCNB1		CCNB2		CDC20		CDKI		DLGAP5		MAD2L1			
	OS		OS		OS		OS		OS		OS		OS		OS		OS		OS			
	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	No.	HR	P- value	
Sex																						
Male	246	2.3 (1.47-3.58)	1.7x 10 ⁴	3.16 (2.02-4.93)	246	2.58 (1.54-4.33)	1.9x 10 ⁵	4.16 (2.07-8.34)	246	3.20 (1.82-5.62)	1.9x 10 ⁵	2.79 (1.56-4.97)	246	3.18 (1.96-5.16)	7.5x 10 ⁷	3.20 (1.60-6.41)	246	3.90 (2.06-7.39)	6.7x 10 ⁶	246	3.20 (1.84-5.56)	1.3x 10 ⁵
Female	118	1.34 (0.75-2.40)	3.2x 10 ¹	1.93 (1.09-3.40)	118	1.87 (1.04-3.37)	1.5x 10 ²	1.98 (1.13-3.84)	118	8.9x 10 ⁵	8.9x 10 ⁵	2.5x (0.79-2.48)	118	2.51 (1.36-4.62)	2.2x 10 ³	2.57 (1.43-4.61)	118	2.21 (1.25-3.91)	5.3x 10 ³	118	1.89 (1.06-3.39)	2.9x 10 ²
Ethnicity																						
Asian	155	4.50 (2.33-8.66)	9.6x 10 ⁷	7.64 (3.66-15.94)	155	4.85 (2.64-8.92)	7.3x 10 ⁷	5.27 (2.53-10.98)	155	7.09 (3.29-15.29)	6.3x 10 ⁹	4.46 (2.43-8.18)	155	5.53 (2.95-10.38)	2.5x 10 ⁹	4.95 (2.63-9.32)	155	5.05 (2.69-9.48)	2.6x 10 ⁸	155	7.09 (3.29-15.29)	6.3x 10 ⁹
White	181	1.34 (0.84-2.15)	2.2x 10 ¹	1.79 (1.03-3.13)	181	1.73 (1.01-2.96)	3.9x 10 ²	1.90 (1.02-3.52)	181	1.80 (1.11-2.94)	1.8x 10 ⁹	1.93 (1.09-3.40)	181	1.78 (1.11-2.88)	1.6x 10 ²	1.62 (1.01-2.59)	181	2.16 (1.29-3.62)	2.8x 10 ³	181	1.67 (1.01-2.77)	4.5x 10 ²
Black or African American	17	NA	NA	NA	17	NA	NA	NA	17	NA	NA	NA	17	NA	NA	17	NA	NA	17	NA	17	NA
Pathology stage																						
1	170	1.83 (0.99-3.37)	5x 10 ²	2.28 (1.01-5.15)	170	1.74 (0.92-3.30)	2x 10 ²	2.43 (1.12-5.28)	170	2.52 (1.23-5.14)	8.8x 10 ³	1.86 (0.93-3.71)	170	1.98 (1.08-3.63)	2.5x 10 ²	1.74 (0.93-3.25)	170	2.39 (1.14-5.02)	1.7x 10 ²	170	2.55 (1.26-5.16)	7.2x 10 ³
1+2	253	1.82 (1.07-3.09)	2.5x 10 ²	2.16 (1.33-3.50)	253	2.01 (1.19-3.40)	8.2x 10 ³	2.34 (1.34-4.07)	253	1.1x (0.43-4.66)	1.1x 10 ³	2.14 (1.17-3.93)	253	2.51 (1.52-4.13)	2x 10 ⁴	2.48 (1.52-4.05)	253	2.68 (1.46-4.95)	1x 10 ³	253	2.61 (1.46-4.67)	8.6x 10 ⁴
2	83	2.12 (0.94-4.77)	6.3x 10 ²	3.18 (1.43-7.09)	83	2.64 (1.18-5.91)	1.4x 10 ²	3.33 (1.34-8.31)	83	3.27 (1.31-8.17)	7.1x 10 ³	2.97 (1.12-7.88)	83	3.87 (2.09-8.89)	6x 10 ⁴	3.35 (1.51-7.37)	83	2.81 (1.58-6.75)	1.5x 10 ²	83	2.81 (1.12-7.04)	2.2x 10 ²
2+3	166	2.15 (1.29-3.59)	2.8x 10 ³	3.10 (1.92-5.03)	166	2.36 (1.46-3.81)	3.2x 10 ⁴	2.30 (1.38-3.84)	166	2.86 (1.63-5.01)	1.3x 10 ⁴	2.1 (1.26-3.50)	166	3.45 (1.99-5.96)	2.6x 10 ⁶	2.38 (1.49-3.81)	166	2.54 (1.58-4.10)	7.1x 10 ⁵	166	2.24 (1.39-3.62)	6.9x 10 ⁴
3	83	2.66 (1.45-4.89)	1.1x 10 ³	3.05 (1.65-5.65)	83	2.41 (1.21-4.83)	1x 10 ²	2.34 (1.27-4.32)	83	3.26 (1.37-7.76)	4.8x 10 ³	2.13 (1.17-3.87)	83	2.61 (1.44-4.72)	1x 10 ³	2.14 (1.15-3.95)	83	2.69 (1.46-4.95)	9.8x 10 ⁴	83	2.66 (1.42-4.98)	1.5x 10 ³
3+4	87	2.50 (1.38-4.54)	1.9x 10 ³	2.70 (1.51-4.85)	87	2.01 (1.11-3.66)	8.5x 10 ³	2.20 (1.20-4.00)	87	3.37 (1.42-7.99)	3.5x 10 ³	1.96 (1.10-3.47)	87	2.4 (1.35-4.27)	2.1x 10 ³	2.39 (1.11-5.15)	87	2.41 (1.35-4.32)	2.2x 10 ³	87	2.43 (1.32-4.44)	3.1x 10 ³
4	5	NA	NA	NA	5	NA	NA	NA	5	NA	NA	NA	5	NA	NA	5	NA	NA	5	NA	5	NA
Grade																						
1	55	2.67 (0.87-8.15)	7.4x 10 ²	3.94 (1.37-11.35)	55	4.24 (1.24)	1.7x 10 ³	6.09 (2.14-17.35)	55	4.51 (1.66-12.24)	1.4x 10 ³	5.61 (1.99-15.82)	55	4.02 (1.49-10.83)	3.4x 10 ³	4.46 (1.53-12.94)	55	6.24 (2.07-18.83)	3.4x 10 ⁴	55	4.24 (1.51-11.93)	3.5x 10 ³
2	174	1.71 (0.99-2.97)	5.1x 10 ²	2.52 (1.49-4.25)	174	2.53 (1.46-4.40)	6.2x 10 ⁴	1.96 (1.17-3.27)	174	1.82 (1.08-3.05)	2.2x 10 ²	1.68 (0.91-3.12)	174	2.37 (1.39-4.06)	1.1x 10 ³	2.34 (1.38-3.96)	174	1.85 (1.03-3.34)	3.8x 10 ²	174	1.83 (1.07-3.13)	2.5x 10 ²
3	118	2.95 (1.57-5.54)	4.2x 10 ⁴	2.97 (1.55-5.69)	118	2.15 (1.18-3.91)	1.1x 10 ²	3.21 (1.26-4.24)	118	3.8x (1.56-5.28)	3.8x 10 ⁴	1.6x (1.40-4.77)	118	3.50 (1.89-6.47)	2.2x 10 ³	2.48 (1.35-4.55)	118	3.40 (1.79-6.46)	7.2x 10 ⁵	118	6.65 (2.05-21.54)	2.7x 10 ⁴
4	12	NA	NA	NA	12	NA	NA	NA	12	NA	NA	NA	12	NA	NA	12	NA	NA	12	NA	12	NA

HR, hazard ratio; OS, overall survival; NA, not applicable.