Supplementary Table S2: Correlation of histomorphological characteristics with clinicopathological parameters

			Histo	Histological subtype			Buc	Budding (per HPF)			Budding (per 10 HPF)				Smallest tumor cell nest (overall)					Smallest tumor cell nest (invasive margin)				Nuclear size				Stromal content				Grade				
		Overall	non- keratinizing	keratinizin	g basaloid	p-value	none	<5 foci	≥5 foci	p-value	none	<15 foci	≥15 foci	p-value	single cells	1-4 cells	5-14 cells	≥15 cells	p-value	single cells	1-5 cells	5-14 cells	≥15 cells	p-value	small	medium	large	p-value	low	moderate	high	p-value	G1	G2	G3	p-value
		541 (100%)	344 (63.7%)	178 (33.0%) 18 (3.3%)	3)	356 (65.8%)	163 (30.1%)	22 (4.1%))	356 (65.8%)	101 (18.7%)	84 (15.5%	5)	92 (17.1%)	166 (30.9%) 114 (21.1%	166 (30.9%))	97 (18%)	92 (17.1%)	141 (26.2%)	208 (38.7%	3)	310 (57.3%)	104 (19.2%)	127 (23.5%)	152 (31.6%) 156 (32.4%)	173 (36.0%)	247 (46.7%)	239 (45.2%)	43 (8.1%)	
Age			, , , , , ,			1								1	, ,									1	, , , , , ,			1								
	below mean	255 (47.1%)	144 (56.5%)	102 (40.0%	9 (3.5%)	0.004	170 (66.7%)	77 (30.2%)	8 (3.1%)	0,665	170 (66.7%)	43 (16.9%)	42 (16.5%	0.730	47 (18.6%)	76 (30.2%)	51 (20.2%)	78 (31%)	0.645	46 (18.2%)	41 (16.2%)	67 (26.5%)	99 (39.1%)	0.837	133 (52.2%)	57 (22.4%)	65 (25.5%)	0.059	72 (31.3%)	69 (30.0%)	89 (38.7%)	0.440	116 (46.8%)	107 (43.1%)	25 (10.1%)	0.523
	above mean	286 (52.9%)	200 (70.2%)	76 (26.7%)	9 (3.2%))	186 (65.0%)	86 (30.1%)	14 (4.9%))	186 (65.0%)	58 (20.3%)	42 (14.7%	5)	45 (15.7%)	90 (31.5%)	63 (22%)	88 (30.8%)		51 (17.9%)	51 (17.9%)	74 (26%)	109 (38.2%	6)	177 (61.9%)	47 (16.4%)	62 (21.7%)		80 (31.9%)	87 (34.7%)	84 (33.5%)		131 (46.6%)	132 (47%)	18 (6.4%)	
Sex																																				
			276 (62.4%)																																	
_	female	99 (18.3%)	68 (69.4%)	28 (28.6%)	2 (2.0%))	59 (59.6%)	37 (37.4%)	3 (3.0%)		59 (59.6%)	23 (23.2%)	17 (17.2%)	23 (23.5%)	25 (25.5%)	24 (24.5%)	26 (26.5%)		22 (22.2%)	17 (17.2%)	25 (25.3%)	35 (35.3%))	52 (52.5%)	16 (16.2%)	31 (31.3%)		22 (24.2%)	28 (30.8%)	41 (45.1%)		45 (45.9%)	40 (40.8%)	13 (13.3%)	
pT	1	04 (47 40/)	55 (59.1%)	20 (20 70/)	2 (2 20/)	0.200	72 (76 600)	20 (24 20/)	2 (2 40/)	0.003	72 (76 60/)	4.4.4.4.00()	0 (0 50()	0.000	9 (9.6%)	20 (20 00/)	40 (40 40()	20 (40 40()	0.027	42 (42 00/)	10 (10 (0))	24 (25 (0/)	47 (500()	0.005	C2 (CC 00()	46 (47 00()	4.0 (47.00/)	0.201	24 (40 50/)	22 (26.2%)	20 (22 20/	0.242	E4 (EE 40/)	20 (44 20/)	2 (2 20/)	0.026
			214 (63.7%)					100 (29.8%)				59 (17.6%)						38 (40.4%) 97 (29.1%)				94 (28.2%)			187 (55.7%)					93 (31.2%)				146 (44.1%)		0.026
			62 (67.4%)					34 (37.0%)				23 (25.0%)						28 (30.4%)				18 (19.6%)				19 (20.7%)				35 (42.7%)				44 (50%)		
	4		13 (68.4%)					9 (47.4%)				5 (26.3%)					4 (21.1%)					5 (26.3%)				4 (21.1%)				6 (35.3%)				11 (61.1%)		
nΝ		15 (5.570)	15 (00.470)	J (20.370)	1 (3.370)		10 (32.070)	3 (47,470)	0 (0.070)		10 (32.070)	3 (20.370)	4 (22.270)		4 (21.170)	0 (42.170)	4 (22.270)	3 (13.770)		2 (20.570)	7 (30.070)	3 (20.370)	5 (20.570)		11 (37.370)	4 (22:270)	4 (L1.170)		4 (£3.370)	0 (33.370)	7 (42.270)		3 (27.070)	11 (01:170)	L (11.170)	
p	0	260 (48.6%)	169 (65.3%)	80 (30.9%)	10 (3.9%)	0.804	183 (70.4%)	67 (25.8%)	10 (3.8%)	0.315	183 (70.4%)	46 (17.7%)	31 (11.9%	0.297	41 (15.8%)	66 (25.5%)	58 (22.4%)	94 (36.3%)	0.042	42 (16.2%)	35 (13.5%)	67 (25.9%)	115 (44.4%	0.171	149 (57.3%)	49 (18.8%)	62 (23.8%)	0.636	88 (37.8%)	68 (29.2%)	77 (33.0%)	0.043	136 (53.3%)	103 (40.4%)	16 (6.3%)	0.056
	1	172 (32.1%)	102 (59.3%)	64 (37.2%)	6 (3.5%))	101 (58.7%)	62 (36.0%)	(5.2%)		101 (58.7%)	32 (18.6%)	39 (22.7%	5)	33 (19.2%)	59 (34.3%)	37 (21.5%)	43 (25%)		39 (22.7%)	33 (19.2%)	47 (27.3%)	53 (30.8%))	98 (57.0%)	29 (16.9%)	45 (26.2%)		40 (25.6%)	58 (37.2%)	58 (37.2%)		68 (40.3%)	81 (47.9%)	20 (11.8%)	
	2	102 (19.1%)	68 (66.7%)	32 (31.4%)	2 (2.0%)		69 (67.6%)	31 (30.4%)	2 (2.0%)		69 (67.6%)	21 (20.6%)	12 (11.8%)	15 (15%)	39 (39%)	18 (18%)	28 (28%)		13 (13%)	23 (23%)	25 (25%)	39 (39%)		61 (59.8%)	23 (22.5%)	18 (17.6%)		23 (26.7%)	27 (31.4%)	36 (41.9%)		41 (41.8%)	52 (53.1%)	5 (5.1%)	
	3	1 (0.2%)	1 (100%)	0 (0%)	0 (0%)		1 (100%)	0 (0%)	0 (0%)		1 (100%)	0 (0%)	0 (0%)		0 (0%)	0 (0%)	1 (100%)	0 (0%)		0 (0%)	0 (0%)	1 (100%)	0 (0%)		0 (0%)	0 (0%)	1 (100.0%)		1 (100%)	0 (0%)	0 (0%)		1 (100%)	0 (0%)	0 (0%)	
pM																																				
	0		342 (63.9%)																0.905	96 (18%)	91 (17.1%)	140 (26.3%)	206 (38.6%	0.912				0.481				0.669				0.959
	1	5 (0.9%)	2 (40.0%)	2 (40.0%)	1 (20.0%)	3 (60.0%)	2 (40.0%)	0 (0.0%)		3 (60.0%)	1 (20.0%)	1 (20.0%))	1 (20%)	2 (40%)	0 (0%)	2 (40%)		1 (20%)	1 (20%)	1 (20%)	2 (40%)		4 (80.0%)	0 (0.0%)	1 (20.0%)		1 (20.0%)	2 (40.0%)	2 (40.0%)		2 (40%)	3 (60%)	0 (0%)	
Stage																																				
			130 (68.4%)																											46 (26.6%)						
	2		109 (55.1%)					62 (31.4%)				35 (17.7%)						59 (29.8%)				46 (23.4%)			120 (60.6%)					59 (33.7%)				86 (44.1%)		
	4		103 (70.1%) 2 (40%)					47 (32.0%) 2 (40%)				31 (21.1%) 1 (20%)					0 (0%)	40 (27.5%)				41 (28.2%) 1 (20%)		1		32 (21.8%) 0 (0%)		-		49 (38.3%)				72 (51.4%) 3 (60%)		
Ki-67	-	3 (0.3%)	2 (40%)	2 (40%)	1 (20%)		3 (00%)	2 (40%)	0 (070)		3 (00%)	1 (2070)	1 (20%)		1 (20%)	2 (40%)	0 (0%)	2 (40%)		1 (2070)	1 (20%)	1 (20%)	2 (40%)		* (00%)	0 (0%)	1 (20%)		1 (20%)	2 (40%)	2 (4070)		2 (40%)	3 (00%)	0 (070)	-
	mean	47.89	46.99	48.28	63.09	0.021	48.16	47.69	45.11	0.833	48.16	49.59	44.71	0.359	47.69	47.01	46.99	49.50	0.764	46.86	46.78	46.20	50.09	0.413	48.05	49.20	46.41	0.663	52.26	45.18	45.67	0.014	48.87	47.78	46.13	0.746
	SD	23.39	23.73	22.81	17,05	-7-	23.98	23.13	14.91		23.98	23.55	20.44		23.79	21.78	23.29	24.81		22.51	22.08	23.39	24.40		23.13	24.60	23.10		24.40	23,66	22.08		24.86	22.17	21.39	