

Supplementary Table S1: Baseline characteristics of the 20 BC patients

Patient ID	Sex	Age	BMI	Smoking History	Drinking History	Hematuria	Urine Leucocyte (/μL)	Urine Bacterium (/μL)	Serum creatinine (μmol/L)	Serum urea (mmol/L)	Serum uric acid (μmol/L)
BC01	M	51	22.4	Current	Current	Yes	755.8	15.3	105	4.9	325
BC02	M	60	21.8	Never	Never	No	86.9	27.5	94	6.9	356
BC03	M	40	21.5	Current	Never	Yes	21.6	386.3	126	6.4	422
BC04	F	59	20.5	Never	Never	Yes	152.7	271.4	49	5.3	275
BC05	M	78	16.0	Never	Never	Yes	70.6	36.9	63	4.4	209
BC06	M	80	20.2	Never	Never	Yes	60.3	26.1	318	32.5	678
BC07	M	82	24.0	Never	Current	No	10.0	720.6	87	4.1	300
BC08	M	75	25.1	EX	Never	Yes	154.8	1828.7	80	7.8	381
BC09	M	77	19.9	Never	Never	No	86.8	14.7	98.0	8.4	123.0

BC10	M	79	19.4	Current	Never	Yes	1653.9	378.8	128.0	11.0	340.0
BC11	F	56	22.0	Never	Never	No	5.8	6.6	110.0	6.6	341.0
BC12	M	62	25.3	Never	Current	No	86.5	46.5	74	5.3	422
BC13	F	65	27.0	Never	Never	Yes	79.8	103.7	103	9.3	525
BC14	M	80	19.8	Never	Never	Yes	1134.4	854.7	132	6.96	377
BC15	M	69	20.0	Never	Never	Yes	68.4	10.7	79	2.92	102
BC16	F	74	20.8	Never	Never	Yes	1.5	24.1	85	9.31	335
BC17	M	79	26.7	Never	Never	Yes	17.7	2.6	134	8.89	249
BC18	M	60	20.8	Current	Never	No	39.2	9.3	70	6.19	326
BC19	M	74	21.6	Current	Current	Yes	42.3	37.5	88	8.79	376
BC20	M	58	19.5	Current	Current	Yes	194.8	83.8	87	8.27	264

Supplementary Table S2: Clinicopathologic parameters of the 20 BC patients

Patient Id	Recurrence	Multifocality	Invasiveness	Grading	Tumor Size	Cystoscopy Findings
BC01	No	Yes	Yes	G3	<2cm	Cauliflower-appearance tumor
BC02	Yes	No	Yes	G1	≥2cm	Cauliflower-appearance tumor
BC03	No	No	Yes	G3	<2cm	Carpet-like swollen lesion
BC04	No	No	Yes	G3	≥2cm	Broad base tumor
BC05	No	Yes	Yes	G3	≥2cm	Broad base papillary swollen lesion
BC06	No	Yes	Yes	G3	≥2cm	Cauliflower-appearance tumor
BC07	Yes	NA	Yes	G2	NA	-
BC08	Yes	No	Yes	G3	<2cm	Cauliflower-appearance tumor
BC09	No	NA	Yes	G3	NA	-
BC10	Yes	NA	Yes	G3	≥2cm	Cauliflower-appearance tumor
BC11	No	No	Yes	G3	NA	-
BC12	Yes	No	Yes	G3	≥2cm	Cauliflower-appearance tumor

BC13	No	No	Yes	G3	NA	-
BC14	No	No	Yes	G3	≥2cm	Broad base cauliflower-appearance tumor
BC15	No	Yes	Yes	G3	≥2cm	Cauliflower-appearance tumor
BC16	No	No	Yes	G3	≥2cm	Broad base tumor
BC17	Yes	No	Yes	G3	≥2cm	Swollen lesion
BC18	No	No	Yes	G3	≥2cm	Broad base irregular swollen lesion
BC19	No	Yes	Yes	G3	≥2cm	Multiple papillary tumors
BC20	No	No	Yes	G3	≥2cm	Tumor like follicular hyperplasia

