

Supplementary data to:

**MICRORNA-9-5P FUNCTIONS AS A TUMOR SUPPRESSOR IN
PROSTATE CANCER VIA TARGETING UTRN**

Zhenyu Guo^{*}, Shuchang Huang^{*}, Yihong Zhou, Wenjie Cheng, Xi Chu, Xiaoqing Zheng[#],
Hao Zheng[#]

Department of Urology, The Fifth Affiliated Hospital of Sun Yat-sen University, Zhuhai,
China

* These authors contributed equally to this work.

Corresponding authors: Xiaoqing Zheng, Department of Urology, The Fifth Affiliated
Hospital of Sun Yat-sen University, No. 52 East Mehua Road, Xiangzhou District, Zhuhai
519000, China; E-mail: xiao7575@163.com
Hao Zheng, Department of Urology, The Fifth Affiliated Hospital of Sun Yat-sen
University, No. 52 East Mehua Road, Xiangzhou District, Zhuhai 519000, China;
Tel: +86-0756-2528679; E-mail: zhengh6@mail.sysu.edu.cn

<http://dx.doi.org/10.17179/excli2019-1512>

This is an Open Access article distributed under the terms of the Creative Commons Attribution License
(<http://creativecommons.org/licenses/by/4.0/>).

Supplementary Table 1: Basic clinicopathological characteristics in 78 patients with prostate cancer

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0816982	44	better	yes	Bilateral orchiectomy	yes	49	Left: prostate cancer (4+5=9 points)	9
0816107	45	no treatment	yes	Laparoscopic radical prostatectomy for sexual prostate cancer (extraperitoneal approach)	yes	56	Right external gland: prostate cancer, Gleason grade (3+4=7); Left external gland: prostate cancer, Gleason grade (3+4=7)	7
0816731	46	else	no			40	Prostate cancer, Gleason score 5+5=10	10
1016157	51	no treatment	yes	Bilateral orchiectomy	yes	24	Prostate adenocarcinoma, Gleason grade 5+4=9	7
0606060	52	else	yes	Transurethral prostatectomy	no	43	Prostate cancer, Gleason grade (3+5=8), with partial small cell carcinoma	8
1107026	63	no treatment	yes	Radical prostatectomy	no	46	Gleason score 5+2=7 for prostate adenocarcinoma	7
1109009	53	better	no			12	Left prostate: prostate adenocarcinoma, Gleason score 4+4=8	8
0915549	54	cure	yes	Castrated surgery	Seminal vesicle and rectum with multiple pelvic and lumbar metastases	46	Right external gland: prostate cancer, Gleason grade 3+2=5; Left external gland: prostate cancer, Gleason grade 4+3=7	5
1020485	56	better	no		yes	48	Left external gland: prostate cancer, Gleason score 4+5=9	9
0607903	56	better	no		yes	62	Gleason grading of prostate cancer (5+4=9)	9
0815095	57	better	yes	Bilateral orchiectomy	yes	34	Left external gland: prostate cancer, Gleason grade (4+3=7)	7

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
1002438	57	no treatment	yes	Laparoscopic radical prostatectomy	no	15	This is a prostate cancer with invasive growth that extends beyond the capsule and into the seminal vesicle. Additionally, urethral resection margin was provided to show carcinoma, Gleason grade (3+5=8)	7
1011200	57	cure	no		yes	53	Right external gland: prostate cancer, Gleason score 3+3=6 points	6
0917084	58	cure	yes	Bilateral orchiectomy	Bone metastasis	24	Right external gland: prostate cancer, Gleason grade (3+4=7)	7
1109720B	58	else	no			15	Right external gland: prostate cancer, Gleason score 5+4=9. Left external gland: prostate cancer, Gleason score 3+3=6	9
1011602	58	cure	yes	Radical prostatectomy	Right pelvic lymph node (5/5) and left pelvic lymph node (1/9)	27	Right external gland: prostate cancer, Gleason score 5+4=9. Left external gland: prostate cancer, Gleason score 5+5=10	7
0906557	59	else	yes	Bilateral orchiectomy	yes	10	Right external gland: prostate cancer, Gleason grade (5+3=8)	7
0907158	53	nullity	no			24	Undifferentiated: prostate cancer, Gleason grade (3+4=7)	7

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0911238	60	cure	yes	Laparoscopic prostatectomy	no	45	Middle: prostate cancer, Gleason grade (5+4=9). Right external gland: prostate cancer, Gleason grade (4+3=7); Left external gland: prostate cancer, Gleason grade (3+3=6)	9
0914757	47	better	yes	Castrated surgery	no	30	Right external gland: prostate cancer, Gleason grade 4+4=8; Left external gland: prostate cancer, Gleason grade 4+4=8	7
1001690	60	else	yes	Bilateral orchiectomy	Bone metastasis	21	Right external gland: prostate cancer, Gleason grade (5+3=8); Left external gland: prostate cancer, Gleason grade (4+4=8)	8
1020358	48	better	yes	Bilateral orchiectomy	no	27	Right external gland: prostate cancer, Gleason score 5+3=8. Left external gland: prostate cancer, Gleason score 5+4=9	8
0610068	49	better	yes	Bilateral orchiectomy	yes	41	Gleason grading of prostate cancer (4+2=6)	6
0713398	51	cure	yes	Radical prostatectomy + orchiectomy (bilateral)		35	Right external gland: prostate cancer, Gleason grade (3+3=6). Left external gland: prostate cancer, Gleason grade (3+3=6)	6

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
1003114	60	better	yes	Bilateral orchiectomy	Abnormal nuclide concentration was observed at the left and right sternoclavicular joints and the right sacroiliac joints in the middle of the neck	27	Right external gland: prostate cancer, Gleason grade (4+3=7); Left external gland: prostate cancer, Gleason grade (4+3=7)	7
0915029	44	cure	no	Aspiration biopsy	no	24	Right external gland: prostate cancer, Gleason grade 3+4=7; Left external gland: prostate cancer, Gleason grade 3+4=7	7
0702556	61	cure	yes	Laparoscopic radical prostatectomy	no	84	Prostate cancer, Gleason grade (3+3=6)	6
1014673	53	cure	yes	Bilateral orchiectomy	no	16	Prostate cancer Gleason 5+3=8	8
1014198	61	cure	yes	Radical prostatectomy	no	25	Right external gland: prostate cancer, Gleason score 5+4=9. Left external gland: prostate cancer, Gleason score 5+4=9	9
1111015A	48	better	yes	Bilateral orchiectomy	no	43	Right external gland: prostate cancer, Gleason score 4+5=9. Left external gland: prostate cancer, Gleason score 3+5=9	9
1004584	63	no treatment	yes	Bilateral orchiectomy	no	24	Right external gland: prostate cancer, Gleason grade (4+5=9)	9
1004093	63	else	yes	Laparoscopic radical prostatectomy	no	26	Prostate cancer, Gleason grade (4+5=9)	9

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0908716	47	else	no		yes	35	right inguinal mass: metastatic prostate cancer. Gleason grading 2+3=5. Prostate cancer, Gleason grade (2+3=5)	5
1017034	56	no treatment	no		yes	25	prostate cancer, Gleason score 4+3=7	7
1104043	64	better	no		yes	12	Right external gland: prostate cancer, Gleason score 5+4=9. Left external gland: prostate cancer, Gleason score 5+4=9	7
1101759	59	else	no		yes	9	Right external gland: prostate cancer	6
0802677	43	better	yes	Orchiectomy (bilateral)			Prostate cancer, Gleason grade (4+4=8)	8
0902258	49	better	yes	Bilateral orchiectomy	yes	37	Right external gland: prostate cancer, Gleason grade (4+3=7); Left external gland: prostate cancer, Gleason grade (4+3=7)	7
0612310	65	better	yes	Bilateral orchiectomy	yes	33	Prostate cancer. Gleason grading (4+3=7)	7
0808908	45	better	no		yes	46	Right external gland: prostate cancer, Gleason grade (5+4=9); Left external gland: prostate cancer, Gleason grade (5+4=9)	7
0810725	65	better	yes	Bilateral orchiectomy	no		Right external gland: prostate cancer, Gleason grade (5+4=9); Left external gland: prostate cancer, Gleason grade (5+4=9)	9

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0814426	65	better	yes	Bilateral orchiectomy	yes	53	Left external gland: prostate cancer, Gleason score (4+3=7)	7
1107360	46	better	yes	Orchiectomy (bilateral)			Left prostate biopsy: Gleason score 5+4=9 for prostate cancer. Right prostate puncture: prostate cancer, Gleason score 4+5=9	7
0910075	66	better	yes	Laparoscopic radical prostatectomy	no	16	Right external gland: prostate cancer, Gleason grade 3+3=6; Left external gland: prostate cancer, Gleason grade 3+3=6	6
1100264	51	better	no		yes		Right external gland: prostate cancer, Gleason score 4+3=7. Left external gland: prostate cancer, Gleason score 5+4=9	7
1104552	78	better	no		yes	12	Right extraneous gland: prostate cancer, with few cancerous tissues, not suitable for scoring. Left external gland: prostate cancer, Gleason score 4+5=9	5
1017189	47	cure	yes	Radical prostatectomy	no	16	prostate cancer, Gleason score 4+3=7	7
0506466	66	cure	yes	Bilateral orchiectomy	no	37	Prostatectomy specimen: a moderately differentiated adenocarcinoma of the prostate	6

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0809163	51	better	no			54	Right external gland: prostate cancer, Gleason grade (3+4=7); Left external gland: prostate cancer, Gleason grade (3+4=7)	7
0905803	67	better	yes	Bilateral orchiectomy	no	67	Prostate cancer Gleason grading (5+5=10)	10
0906415	44	cure	no		no	43	Right external gland: prostate cancer, Gleason grade (4+3=7); Left external gland: prostate cancer, Gleason grade (4+3=7)	7
0911079	67	cure	yes	Laparoscopic radical prostatectomy	no	46	Prostate cancer, Gleason grade (1+2=3)	3
0817334	57	else	yes	Right ureterectomy	no	36	Prostate cancer	6
1018843	67	cure	yes	Electroprostatectomy	no	35	Prostate cancer, Gleason score 3+3=6. The lesion area was about 0.5cm in the specimen	6
1016597	48	better	yes	Bilateral orchiectomy	yes	42	Right prostate prostate cancer, Gleason score 4+5=9	7
0510511	67	better	yes	Electroprostatectomy plus bilateral orchiectomy	no		Prostate adenocarcinoma, Gleason grade (4+3=7)	7
0815213	55	no treatment	no		Unknown	13	Left external gland: prostate cancer, Gleason grade (3+3=6)	6
1006025	68	else	no	Aspiration biopsy	Abnormal radioactive concentration in the upper right femur	38	Left external gland: prostate cancer, Gleason grade (3+3=6). Right external gland: prostate cancer, Gleason grade (3+3=6); Left external gland: prostate cancer, Gleason grade (4+4=8)	6

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
049501	42	better	yes	Bilateral orchiectomy	yes	24	Infiltrating highly differentiated adenocarcinoma	3
0916390	69	cure	yes	Bilateral orchiectomy	yes	28	Right external gland: prostate cancer, Gleason grade 4+4=8; Left external gland: prostate cancer, Gleason grade 4+4=8	8
0806461	56	better	yes	Bilateral orchiectomy	yes	36	Right external gland: prostate cancer, Gleason grade (3+5=8); Left external gland: prostate cancer, Gleason grade (3+5=8)	8
0702920	69	better	yes	Bilateral orchiectomy	no	57	Right lateral gland: prostate cancer, Gleason grade (2+2=4)	4
0715020	46	better	yes	Bilateral orchiectomy	yes	11	Right external gland: prostate cancer, Gleason score 5+5=10; Left external gland: prostate cancer, Gleason score 5+4=9	7
1019769	69	cure	yes	Radical resection of prostate cancer	no	24	Prostate cancer, Gleason score 3+3=6 points	6
0909409	56	better	yes	Bilateral orchiectomy	Unknown	36	Right: prostate cancer, Gleason grade (4+3=7); Left: prostate cancer, Gleason grading (3+3=6)	7
0609352	70	better	no				Gleason grading of prostate cancer (3+3=6)	6
1002628	50	better	yes	Orchiectomy (bilateral)		24	Right external gland: prostate cancer, Gleason score 4+3=7. Exocrine gland: prostate cancer, Gleason score 4+5=9	7

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
0810383	70	cure	yes	Laparoscopic radical prostatectomy	no	54	Prostate cancer Gleason score 5+3=8	8
1107417	56	better	yes	Bilateral orchiectomy	no	12	Prostate: prostate cancer, Gleason score 4+3=7	7
0916737	71	cure	yes	Bilateral orchiectomy	no	36	Right external gland: prostate cancer, Gleason grade (4+5=9); Left external gland: prostate cancer, Gleason grade (4+5=9)	7
0607976	55	cure	yes	Orchiectomy (bilateral)		38	Inner gland: Gleason grade of prostate cancer (2+3=5) Right external gland: Gleason grade of prostate cancer (4+4=8)	5
0612260	71	better	yes	Bilateral orchiectomy	no	19	Internal gland: prostate cancer. Gleason grading (4+3=7); Right external gland: prostate cancer. Gleason grading (4+4=8)	7
0715806	52	better	yes	Bilateral orchiectomy	yes	43	Right gland: prostate adenocarcinoma, Gleason grade (5+4=9); Left gland: prostate adenocarcinoma, Gleason grade (5+4=9)	9
1000649	48	better	yes	Bilateral orchiectomy	With multiple bone metastases throughout the body; Pelvic cavity, right inguinal area, retro- peritoneum, bilateral	27	Prostate cancer, Gleason grade (2+3=5)	5

Number	Age	Efficacy	Surgery	Surgery way	Distant metastasis	Survival time (month)	Features	Gleason score
1013507	71	better	yes	Bilateral orchiectomy	yes	24	Right external gland: prostate cancer, Gleason score 4+3=7. Left external gland: prostate cancer, Gleason score 4+3=7	7
1014834	57	cure	yes	Bilateral orchiectomy	no	46	prostate cancer, Gleason score 3+4=7	7
1016515	63	cure	yes	Bilateral orchiectomy	yes	45	Left prostate prostate cancer, Gleason score 5+4=9. Right prostate cancer, Gleason score 4+5=9	9
0506681	63	cure	yes	Bilateral orchiectomy	yes	52	Right and left prostate biopsy were all moderately differentiated adenocarcinomas	4

Figure 3D

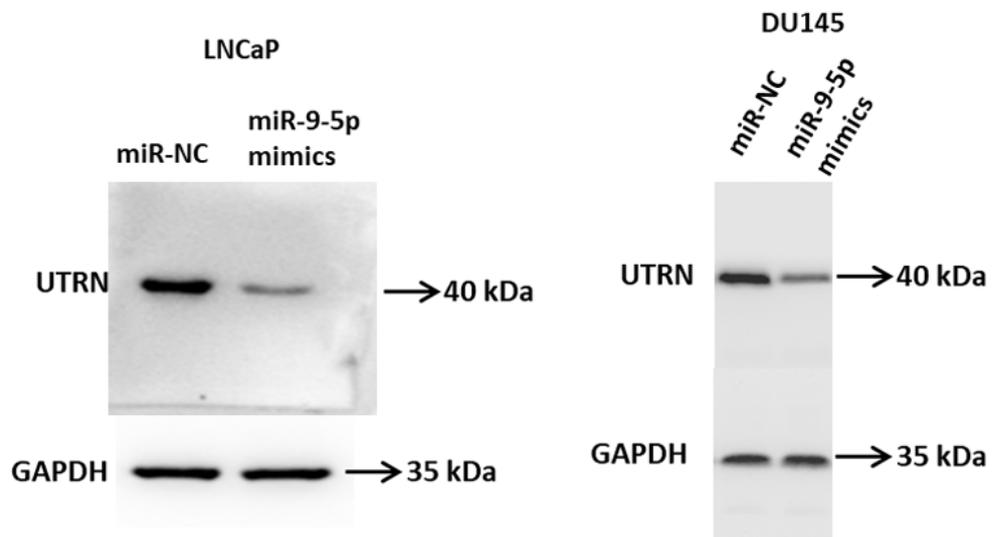
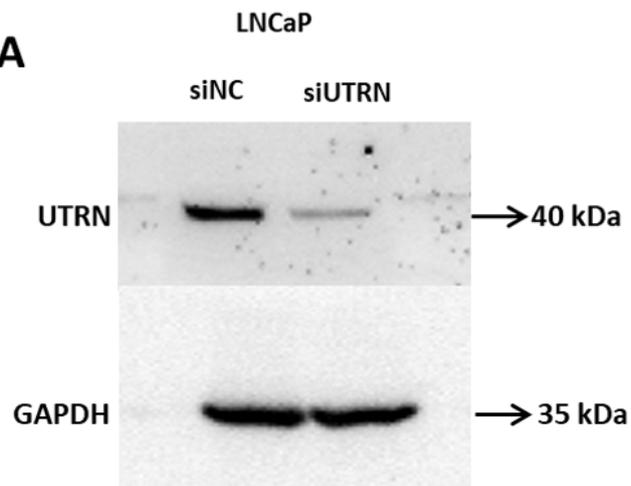


Figure 5A



Supplementary Figure 1: Original Western blots for all figures