

# S16 Fig

A

## control LNCaP Vehicle vs R1881 Treatment

### Top 10 motifs associated with AR with vehicle and R1881 treatment

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	55.03% (18.33%)	1E-11895
	FOXA1	60.08% (22.52%)	1E-11481
	FOXA2	41.36% (12.22%)	1E-9459
	FOX:Ebox	40.67% (12.17%)	1E-9118
	FOXA3	24.96% (5.23%)	1E-7601
	FOXK1	40.52% (16.96%)	1E-5459
	FOXF1	41.39% (18.05%)	1E-5200
	FOXL2	38.49% (16.27%)	1E-5010
	FOXO3	32.87% (12.50%)	1E-4941
	FOXP1	22.10% (6.96%)	1E-4141

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	FOXA1:AR	7.19% (1.55%)	1E-1966
	AR-halfsite	44.02% (32.67%)	1E-988
	ARE	5.14% (1.57%)	1E-917

### Top 10 motifs associated with AR with R1881 treatment only

Motif	Match	% peaks with motif (% background)	p-value
	GRE	19.25% (2.08%)	1E-7453
	ARE	18.01% (1.74%)	1E-7445
	FOXM1	48.28% (18.18%)	1E-6399
	PR	54.09% (22.52%)	1E-6381
	PGR	20.00% (3.01%)	1E-6144
	FOXA1	53.07% (22.23%)	1E-6137
	FOXA1:AR	13.52% (1.54%)	1E-4958
	FOXA2	34.66% (12.85%)	1E-4255
	FOX:Ebox	34.48% (12.99%)	1E-4114
	FOXA3	19.27% (5.46%)	1E-3155

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	AR-halfsite	54.60% (34.74%)	1E-2244

### Top 10 motifs associated with AR with vehicle treatment only

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	37.62% (14.93%)	1E-1686
	FOXA1	38.60% (15.79%)	1E-1652
	FOXA2	28.03% (9.72%)	1E-1463
	FOX:Ebox	26.53% (9.62%)	1E-1279
	FOXA3	16.38% (4.18%)	1E-1201
	HOXB13	33.53% (15.25%)	1E-1124
	FOXK1	29.44% (14.19%)	1E-841
	FOXF1	31.25% (15.68%)	1E-823
	FOXL2	28.51% (13.71%)	1E-813
	FOXO3	23.59% (10.32%)	1E-795

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	AR-halfsite	31.67% (29.45%)	1E-14

B

## MED19 LNCaP Vehicle vs R1881 Treatment

### Top 10 motifs associated with AR with vehicle and R1881 treatment

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	51.88% (17.76%)	1E-10127
	FOXA1	52.47% (18.39%)	1E-9955
	FOXA2	39.38% (11.92%)	1E-8287
	FOX:Ebox	38.72% (11.95%)	1E-7917
	FOXA3	23.80% (5.04%)	1E-6857
	FOXK1	38.74% (16.61%)	1E-4730
	FOXF1	39.36% (17.23%)	1E-4635
	FOXL2	36.56% (15.55%)	1E-4452
	FOXO3	31.46% (12.07%)	1E-4438
	FOXP1	21.19% (6.59%)	1E-3853

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	FOXA1:AR	6.36% (1.49%)	1E-1531
	AR-halfsite	44.58% (32.51%)	1E-1073
	ARE	5.10% (1.54%)	1E-889

### Top 10 motifs associated with AR with R1881 treatment only

Motif	Match	% peaks with motif (% background)	p-value
	ARE	18.16% (1.62%)	1E-8795
	GRE	19.31% (2.00%)	1E-8605
	PGR	20.07% (2.94%)	1E-7042
	FOXM1	47.49% (17.82%)	1E-7039
	PR	54.43% (23.20%)	1E-6914
	FOXA1	52.30% (22.00%)	1E-6674
	FOXA1:AR	13.07% (1.64%)	1E-5011
	FOXA2	34.35% (12.73%)	1E-4712
	FOX:Ebox	34.06% (13.10%)	1E-4385
	FOXA3	19.11% (5.32%)	1E-3577

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	AR-halfsite	54.85% (32.51%)	1E-2517

### Top 10 motifs associated with AR with vehicle treatment only

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	29.30% (11.86%)	1E-992
	FOXA1	29.83% (12.31%)	1E-979
	FOXA2	22.25% (8.06%)	1E-870
	FOX:Ebox	21.49% (8.16%)	1E-774
	FOXA3	12.81% (3.38%)	1E-739
	HOXB13	27.10% (12.78%)	1E-664
	FOXK1	23.54% (11.50%)	1E-517
	FOXO3	18.85% (8.37%)	1E-497
	NF1	10.32% (3.14%)	1E-489
	FOXF1	24.10% (12.24%)	1E-484

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	AR-halfsite	31.58% (30.58%)	1E-3

C

## MED19 LNCaP Vehicle vs R1881 Treatment

### Top 10 motifs associated with MED19 with vehicle and R1881 treatment

Motif	Match	% peaks with motif (% background)	p-value
	FOXA1	37.26% (10.72%)	1E-680
	FOXM1	36.74% (10.47%)	1E-676
	FOX:Ebox	31.78% (8.25%)	1E-634
	FOXA2	29.96% (7.31%)	1E-634
	FOXA3	18.61% (3.07%)	1E-542
	FOXK1	28.10% (10.06%)	1E-358
	FOXO3	22.59% (7.26%)	1E-327
	FOXL2	25.27% (9.03%)	1E-317
	FOXF1	26.05% (9.88%)	1E-298
	FOXK2	18.05% (5.49%)	1E-275

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	FOXA1:AR	2.99% (0.90%)	1E-44
	AR-halfsite	39.84% (39.84%)	1E-24
	ARE	3.16% (1.53%)	1E-19

### Top 10 motifs associated with MED19 with R1881 treatment only

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	31.58% (9.31%)	1E-850
	FOXA1	31.03% (9.14%)	1E-834
	FOXA2	25.22% (6.80%)	1E-732
	FOX:Ebox	25.93% (7.92%)	1E-644
	FOXA3	14.71% (2.81%)	1E-582
	GRE	11.00% (1.63%)	1E-532
	PGR	10.65% (1.59%)	1E-512
	ARE	10.44% (1.59%)	1E-494
	FOXA1:AR	7.43% (0.77%)	1E-461
	PR	34.49% (17.27%)	1E-378

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	AR-halfsite	44.94% (33.78%)	1E-118

### Top 10 motifs associated with MED19 with vehicle treatment only

Motif	Match	% peaks with motif (% background)	p-value
	FOXM1	53.18% (17.31%)	1E-609
	FOXA1	53.20% (18.35%)	1E-564
	FOX:Ebox	40.16% (10.76%)	1E-533
	FOXA2	39.90% (11.47%)	1E-487
	FOXA3	25.34% (4.86%)	1E-438
	HOXB13	40.23% (16.87%)	1E-281
	FOXK1	38.38% (16.49%)	1E-253
	FOXF1	40.35% (17.97%)	1E-252
	FOXL2	36.87% (15.82%)	1E-241
	FOXO3	31.10% (12.10%)	1E-232

### Additional AR-related motifs

Motif	Match	% peaks with motif (% background)	p-value
	FOXA1:AR	2.06% (1.38%)	1E-3