

## ABBREVIATIONS

AR: Androgen Receptor	IHC: Immunohistochemistry
ARE: Androgen Response Elements	IP: Immunoprecipitation
BPH: Benign Prostatic Hyperplasia	LBD: Ligand binding domain
BOO: Bladder Obstruction Outlet	LGR4: Leucine-rich repeat G-Protein coupled receptor
BSC: Basal Stem Cells	LP: Luminal Progenitors
CD: Cluster Designation	LUTS: Lower Urinary Track Symptoms
cDNA: Complementary DNA	miR: Micro RNA
ChIP: Chromatin Immunoprecipitation	MTT: 3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium
CK: Cytokeratin	NE: Neuroendocrine
CSS: Charcoal-stripped serum	Nil: Nilutamide
CSC: Cancer Stem Cells	NLS: Nuclear Localization Signal
CTD: C Terminal Domain	nM: Nano-Molar
DAPI: 4'6'-diamidino-2-phenylindole dihydrochloride	nl: Nano-litre
DBD: DNA binding domain	ng: nano-gram
DHEA: Dehydroepiandrosterone	NTD: N-terminal regulatory domain
DHT: Dihydrotestosterone	PBS: Phosphate buffered saline
DMEM: Dulbecco's modified Eagle's medium	PCa: Prostate Cancer
DMSO: Dimethyl sulfoxide	PFA: Paraformaldehyde
EDTA: Ethylene diamine tetra acetic acid	PIN: Prostate Intraepithelial Neoplasia
EGF: Epidermal Growth Factor	PSA: Prostate specific antigen
EMT: Epithelial-to-Mesenchymal Transition	PZ: Peripheral Zone
FACS: Fluorescence activated cell sorting	qPCR: Real-time polymerase chain reaction
FBS: Fetal Bovine Serum	SCF: Stem Cell Factor
HSP: Heat shock proteins	shRNA: Short Hairpin RNA
ICC: Immunocytochemistry	SMC: Smooth Muscle cells
IGF1: Insulin-like growth factor 1	TA: Transit Amplifying cells
IGFBP: IGF-binding protein	TF: Transcription Factors
IgG: Immunoglobulin- $\gamma$	TGF $\beta$ : Transforming Growth Factor $\beta$
	TP: Testosterone Propionate

TURP: Transurethral Resection of Prostate

TZ: Transitional Zone

UGM: Urogenital Mesenchyme

UGS: Urogenital sinus

$\mu$ l: Microliter

$\mu$ m: Micrometer

$\mu$ M: Micro-Molar

WB: Western Blotting

Wort: Wortmannin