



Identification of stem cells as the cellular basis of prostate cancer provides therapeutic potential

Published date: Oct. 8, 2014

Technology description

Tech Ventures Reference: IR 2624

Publications

Wang X, Kruithof-de Julio M, Economides KD, Walker D, Yu H, Halili MV, Hu YP, Price SM, Abate-Shen C, Shen MM. "A luminal epithelial stem cell that is a cell of origin for prostate cancer." Nature. 2009 Sep 24;461(7263): 495-500.

Wang ZA, Toivanen R, Bergren SK, Chambon P, Shen MM. "Luminal Cells Are Favored as the Cell of Origin for Prostate Cancer." Cell Rep. 2014 Aug 27; S2211-1247(14): 00661-5

Application area

Diagnosis of prostate cancer and prostate cancer risk

Potential target for the development of therapeutics for prostate cancer

Basis of in vitro high throughput assays for drug and biomarker development

Advantages

Previously unidentified stem cell type in prostate endothelium

Stem cell type is physiologically relevant to human prostate cancer

Exhibits oncogenic properties faithful to disease phenotype

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