Preclinical models for drug development in human prostate cancer

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Technology description

ERASMUS MC has developed an unique set of tools for the study of human prostate cancer, which include cell lines, patient-derived xenografts and 3D cultures.
Prostate cancer is the second most common cancer in men worldwide.Prostate cancer is the second most common cancer in men worldwide. Erasmus MC has developed various experimental models systems to perform preclinical research in human prostate cancer. All materials are ready to use. The materials comprise:
- Patient-derived xenografts (PDX) and 3D cultures
- Spontaneous metastatic model
- Co-culture model
- Castration-resistant prostate cancer (CRPC) cell lines
- Human prostate cancer cell lines

References

Marqueset al.High efficacy of combination therapy using PI3K/AKT inhibitors with androgen deprivation in prostate cancer preclinical models(2015) European Urology 67(6):1177-85.
van Weerdenet al.Human xenograft models as useful tools to access the potential of novel therapeutics in prostate cancer(2009) British Journal of Cancer 100:13-18.

Application area

· **Sensitive models** to study prostate cancer
· **Research tool** to identify and elucidate signaling molecular pathways and new targets
· **Drug development** by allowing screening and validation of candidate drugs
These tools may ultimately facilitate the
-development of new drugs for the treatment of prostate cancer .

Institution

Erasmus University Medical Center Rotterdam (Erasmus MC)

联系我们

叶先生

电 话：021-65679356

手 机：13414935137

邮 箱：yeyingsheng@zf-ym.com