

Dr Yong Jie Lu



Research Interests

My main research areas are in Cancer Genetics and Genomics, as applied to Male Urogenital Cancer, in particular prostate. We have adopted a systematic genetic approach to identify significant genomic alterations and genes in the development, progression and therapeutic response of male urogenital tumours.

My research group's current main interests are:

- Identification of critical genes in the development and progression of prostate cancer using genome-wide analysis approaches, including participating in the prostate cancer ICGC and the largest predisposition study consortium.
- Investigation of the mechanism and consequence of genomic alterations in prostate cancer development.
- Experimental therapy based on genetic changes and associated mechanisms in cancer cells.
- Therapeutic resistance mechanisms in male urogenital cancers.

Major Funders

- Orchid Charity
- Medical Research Council
- Association for International Cancer Research
- Prostate Cancer Action
- Cancer Research UK

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Recent Publications

- Boyd L, Mao X, **Lu YJ**. The complexity of prostate cancer: genomic alterations and heterogeneity. *Nat Rev Urol*. 2012; 9(11):652-64.
- Boyd LK, Mao X, Xue L, Lin D, Chaplin T, Kudahetti SC, Stankiewicz E, Yu Y, Beltran L, Shaw G, Hines J, Oliver RT, Berney DM, Young BD, **Lu YJ**. High-resolution Genome-Wide Copy-number Analysis Suggests a Monoclonal Origin of Multi-focal Prostate Cancer. *Genes Chromosome Cancer*. 2012; 51(6):579-89.
- Kote-Jarai Z, Olama AA, **Lu YJ** (equal third author). The PRACTICAL consortium, Easton DF, Eeles RA. Seven novel prostate cancer susceptibility loci identified by a multi-stage genome-wide association study. *Nat Genet*. 2011; 43(8):785-91.
- Androgen-induced TMPRSS2:ERG fusion in non-malignant prostate epithelial cells. Coll Bastus N, Boyd LK, Mao X, Stankiewicz E, Kudahetti SC, Oliver RTD, Berney DM, **Lu YJ**. *Cancer Res*. 2010; 70(23):9544-8.
- Distinct genomic alterations suggest alternative pathways of prostate carcinogenesis in Chinese and Western populations. Mao X, Yu Y, Boyd LK, Ren G, Stankiewicz E, Lin D, Chaplin T, Kudahetti SC, Xue L, Beltran L, Gupta M, Oliver RTD, Lemoine NR, Berney DM, Young BD, **Lu YJ**. *Cancer Res* 2010; 70(13):5207-12.
- The Association of CCND1 Overexpression and Cisplatin Resistance in Testicular Germ Cell Tumors and Other Cancers. Noel EE, Yeste-Velasco M, Mao X, Perry J, Kudahetti SC, Li NF, Sharp S, Chaplin T, Xue L, McIntyre A, Shan L, Powles T, Oliver RTD, Young BD, Shipley J, Berney DM, Joel SP, **Lu YJ**. *Am J Pathol* 2010; 176(6):2607-15.

