

# Professor Louise Jones



## Research Interests

My main research areas are in breast cancer and the tumour microenvironment.

My research group focuses on:

- Factors involved in the progression of *in-situ* to invasive disease, with the aim of identifying markers as novel therapeutic targets and which predict behaviour.
- Development of *in vitro* models of ductal carcinoma *in-situ* (DCIS) to investigate the influence of the microenvironment on tumour cell behaviour, specifically the altered myoepithelial and fibroblast phenotype.
- Investigating the molecular basis of Mammographic Density and the mechanisms by which it promotes development of breast cancer.
- I lead one of the Core Centres of the Breast Cancer Campaign Tissue Bank.
- I am also Course Director for the MSc Molecular Pathology and Genomics course.

## Major Funders

- Association for International Cancer Research
- Breast Cancer Campaign
- Cancer Research UK

## Contact Details

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## Recent Publications

- Altered microenvironment promotes progression of preinvasive breast cancer: myoepithelial expression of  $\alpha\beta 6$  integrin in DCIS identifies high-risk patients and predicts recurrence. Allen MD, Thomas GJ, Clark S, Dawoud MM, Vallath S, Payne SJ, Gomm JJ, Dreger SA, Dickinson S, Edwards DR, Pennington CJ, Sestak I, Cuzick J, Marshall JF, Hart IR, **Jones JL**. *Clin Cancer Res*. 2014 Jan 15;20(2):344-57.
- Rigidity sensing and adaptation through regulation of integrin types. Elosegui-Artola A, Bazellières E, Allen MD, Andreu I, Oria R, Sunyer R, Gomm JJ, Marshall JF, **Jones JL**, Trepas X, Roca-Cusachs P. *Nat Mater*. 2014 Jun;13(6):631-7.
- C-met in invasive breast cancer: is there a relationship with the basal-like subtype? Ho-Yen CM, Green AR, Rakha EA, Brentnall AR, Ellis IO, Kermorgant S, **Jones JL**. *Cancer*. 2014 Jan 15;120(2):163-71.
- Molecular subtyping of DCIS: heterogeneity of breast cancer reflected in pre-invasive disease. Clark SE, Warwick J, Carpenter R, Bowen RL, Duffy SW, **Jones JL**. *Br J Cancer*. 2011 104(1):120-7.

