

Leicester Cancer Research Centre Academic Seminar

'How tumours grow: molecular histopathological insights into lung cancer biology'

Thursday 14th June 2018 at 4pm



Dr John Le Quesne

Senior Lecturer (University of Leicester)
Lead Pathologist (MRC Toxicology Institute)
Diagnostic thoracic histopathologist

VENUE

Robert Kilpatrick Clinical Sciences Building
Seminar Room 1.23

Synopsis of talk:

The Le Quesne group uses a combination of molecular biological and quantitative histopathological methods to make and test hypotheses about human tumour biology, using large archival tumour collections, with pulmonary adenocarcinoma as a model system. Their biological interests are centred upon phenotypic and genomic heterogeneity within tumours, and especially the role of translational control in the malignant phenotype. This talk will address several basic and applied questions in lung cancer biology. They include:

- What does the shape of tumour cells tell us about tumour cell behaviour?
- How is mRNA translation reprogrammed in lung cancer?
- How does molecular evolution drive invasion in early tumour growth?
- How can we improve our decision-making about who should receive chemotherapy?
- How does patient sex influence lung cancer biology?
- Can machines learn to do the job of a pathologist? (hint- the answer is yes)

Acknowledgement to the MRC Toxicology Unit for their support & funding