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John is an academic pathologist, combining work as a diagnostic pathologist specialising in lung cancer and mesothelioma with an academic career supervising a research group. His research group's interests are in three main areas:

- i) The dysregulation of the translation of mRNA in solid tumours
- ii) The causes and consequences of microscopic tumour architecture
- iii) The use of artificial intelligence in the analysis of histopathological image data

As a group, they specialise in the use of quantitative multiplex microscopy methods, yielding extremely high-information images from large cohorts of human tumour tissue, and in the extraction of meaningful biological information from these images using a range of classical and novel methods.

