

<b>Project Title</b>	<b>Enabling advanced single cell cancer genomics in Western Australia</b>
Recipient	Prof Alistair Forrest
Institution	Harry Perkins Institute of Medical Research
Research description	<p>Tumours contain many different normal cell types that interact with the cancer cells. Although some cell types are associated with good or poor prognosis, relatively little is known about all the cell types that exist in a tumour.</p> <p>The team will use new 'single cell technologies' to study hundreds of tumour samples from many different cancer types donated by patients across Perth. This will provide new insights into what cell types are present in each tumour and determine the genes switched on and off in thousands of cells from each patient's tumour.</p> <p>This information will be used to study four priority areas: What cell types are present in each tumour? ; Which drugs might kill these cancer cells, what fraction of cancer cells are likely to be resistant and why are some cancers resistant?; What changes between the cancer cells in a primary when they move to a metastatic site?; and can new biomarkers be identified for early cancer detection and can cancer cells be detected in the blood?</p>
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