

# MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00219A REPORT

10 July 2025

## CLINICAL SUMMARY

**Sex:** Male  
**Age:** 75  
**Pre-operative radiotherapy:**

## HISTOPATHOLOGY

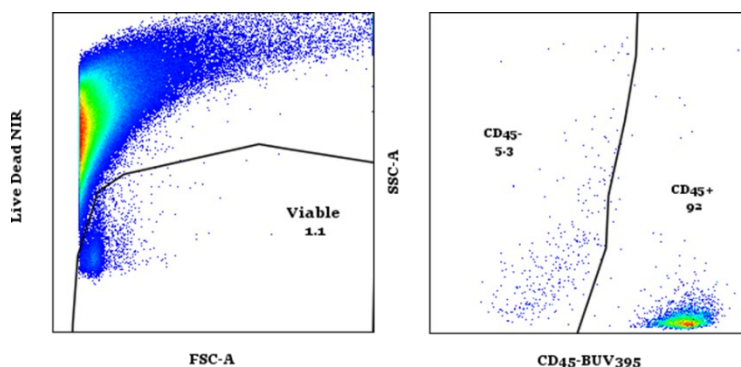
**Specimen type:** Lymph Node  
**Tumour site:** Left Axillary Lymph Node  
**Tumour type:** Melanoma  
**Tumour stage:** Stage IV  
**Specimen tumour content:** Low

## NEXT GENERATION GENOME/TRANSCRIPTOME DATA

**Provider:** Australian Genome Research Facility - 150bp paired end  
**Data yield:** Germline DNA: 27,625,818 paired end, 8.34 Gbp  
**Tumour DNA:** 65,758,798 paired end, 19.86 Gbp  
**Tumour RNA:** 39,801,646 paired end, 12.02 Gbp

| Top pathogenic somatic mutations |                    |                  |          |
|----------------------------------|--------------------|------------------|----------|
| Gene                             | Alteration         | Allele Frequency | Function |
| ARID1A                           | c.4745T>G p.I1582S | 9.09%            | Loss     |

## FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



| Cell Type                  | (%) of subset |
|----------------------------|---------------|
| Viable Cells               | 1.1           |
| Viable Cells>CD45-         | 5.3           |
| Viable Cells>CD45+         | 92            |
| Viable Cells>CD45+>B Cells | 1.3           |
| Viable Cells>CD45+>CD4+    | 17            |
| Viable Cells>CD45+>CD8+    | 44.9          |