

MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00215A REPORT

10 July 2025

CLINICAL SUMMARY

Sex: Male
Age: 40
Pre-operative radiotherapy:

HISTOPATHOLOGY

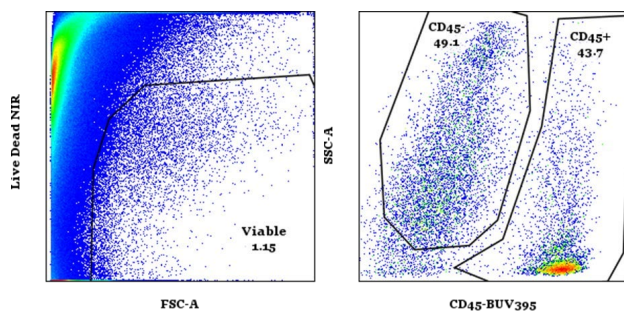
Specimen type: Brain
Tumour site: Right Parietal
Tumour type: Melanoma
Tumour stage: Stage IV
Specimen tumour content: 50%

NEXT GENERATION GENOME/TRANSCRIPTOME DATA

Provider: Australian Genome Research Facility - 150bp paired end
Data yield: Germline DNA: 33,723,858 paired end, 10.18 Gbp
Tumour DNA: 80,199,561 paired end, 24.22 Gbp
Tumour RNA: 64,852,623 paired end, 19.59 Gbp

Top pathogenic somatic mutations			
Gene	Alteration	Allele Frequency	Function
ATM	c.5188C>T p.R1730*	20%	Loss
BRAF	c.1799T>A p.V600E	57%	Gain
TP53	c.637C>T p.R174*	74%	Loss
DNMT3A	c.571C>T p.Q191*	54%	Loss
TERT	c.-124C>T	55%	Gain

FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



Cell Type	(%) of subset
Viable Cells	1.2
Viable Cells>CD45-	49.1
Viable Cells>CD45+	43.7
Viable Cells>CD45+>CD4+	42.4
Viable Cells>CD45+>CD8+	40.7