MACQUARIE UNIVERSITY CANCER BIOBANK

MQCB00100A REPORT

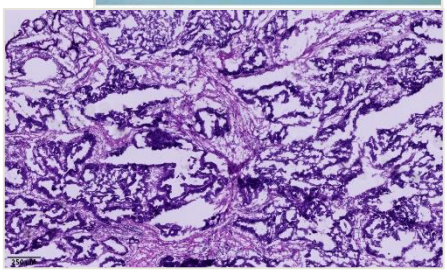
14 OCTOBER 2022

CLINICAL SUMMARY

Sex: Female
Age: 81
Pre-operative radiotherapy: No

HISTOPATHOLOGY

Specimen type: Right Hemicolectomy
Tumour site: Caecum
Tumour type: Adenocarcinoma NOS
Tumour stage: pT3N1b, cM0; Stage IIIB
Tumour details: Mismatch proficient (MLH1, PMSH2, MSH2, MSH6 normal by IHC), BRAFV600E IHC negative



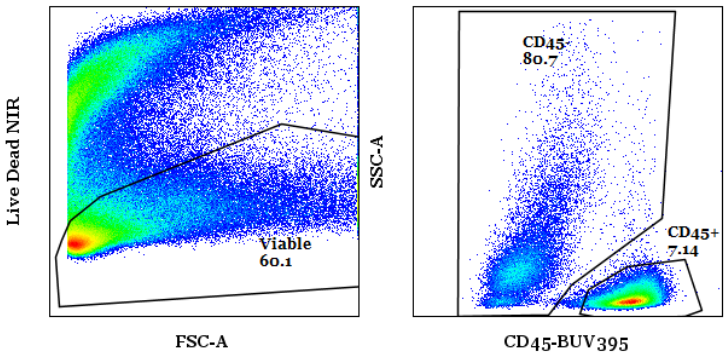
75% Tumour Content

NEXT GENERATION GENOME/TRANSCRIPTOME DATA

Provider: Australian Genome Research Facility - 150bp paired end
Data yield: Germline DNA: 356,936,772 paired end, 107.79 Gbp
Tumour DNA: 678,892,717 paired end, 205.03 Gbp
Tumour RNA: 52,579,759 paired end, 15.88 Gbp

Top pathogenic somatic mutations			
Gene	**Alteration**	**Allele Frequency**	**Function**
FBXW7	c.1435C>T, p.R479*	52%	Loss
FBXW7	c.1745C>T, p.S582L	24%	Loss
KRAS	c.35G>A, p.G12D	30%	Gain
PIK3CA	c.1633G>A, p.E545K	49%	Gain
TP53	c.743G>A, p.R248Q	19%	Gain
AKT1	c.49G>A, p.E17K	22%	Gain
APC	c.1213C.T, p.R405*	68%	Loss
APC	c.4666dupA, p. T1556fs*3	75%	Loss

FLOW CYTOMETRY TUMOUR DISSOCIATE ANALYSIS



Cell Type	(%) of subset
Viable cells	60.1
Viable>CD45-	80.7
Viable>CD45+	7.1
Viable>CD45+>B cells	0.5
Viable>CD45+>CD4+/Foxp3-	55.4
Viable>CD45+>Tregs+	10.1
Viable>CD45+>CD8+	5.4
Viable>CD45+>Monocytes/Macrophages	3.9