

**Supplementary Table 1. Patient information**

Medical record number	Age of donor patients (years)	Size of tumor (cm)	Laboratory Testing	Pathology	Surgery method	Culture duration (days)	Supplemental information on tissues
BAL394	24	6.3*5.9*4.9	LDH:236U/L T:4.36ug/L HCG:2.32mIU/ml AFP:4.84ng/ml	Seminoma	Left orchiectomy+Right testicular biopsy	14	Contralateral healthy testicular tissue
D93917	28	7.0*5.8*6.0	LDH:354U/L T:1.37ug/L HCG:1405mIU/ml AFP:368.32ng/ml	Mixed Malignant Germ Cell Tumor	Left orchiectomy+Right testicular biopsy	14	Contralateral healthy testicular tissue
D86878	24	3.4*2.4*2.6	LDH:123U/L T:3.57ug/L HCG:0.1mIU/ml AFP:5.01ng/ml	Testicular Postpubertal-Type Teratomas	Right orchiectomy+Left testicular biopsy	14	Contralateral healthy testicular tissue
D85735	32	3.9*3.5*3.0	LDH:120U/L T:4.33ug/L HCG:14.97mIU/ml AFP:10.89ng/ml	Seminoma	Right orchiectomy+Left testicular biopsy	14	Contralateral healthy testicular tissue
B81547	27	2.3*2.1*1.8	LDH:120U/L T:5.97ug/L HCG:2.31mIU/ml AFP:6.92ng/ml	Seminoma	Right orchiectomy+Left testicular biopsy	14	Contralateral healthy testicular tissue
E03777	32	2.5*2.3*2.3	LDH:167U/L T:2.21ug/L HCG:<0.1mIU/ml AFP:2.81ng/ml	Sertoli Cell Tumor	Right orchiectomy+Left testicular biopsy	14	Contralateral healthy testicular tissue