OmiTrans: generative adversarial networks based omics-to-omics translation framework

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This document provides the Supplementary Tables mentioned in the manuscript.

Supplementary Table 1: Tumour type information of the TCGA dataset. Sample numbers of each tumour type and the normal control for RNA-Seq gene expression profiling (A) and DNA methylation profiling (B) are shown in corresponding columns.

Tumour Type	Abbreviation	Count A	Count B
Breast invasive carcinoma	BRCA	1,104	794
Brain lower grade glioma	LGG	529	534
Thyroid carcinoma	THCA	510	515
Head and neck squamous cell carcinoma	HNSC	502	530
Prostate adenocarcinoma	PRAD	499	503
Lung adenocarcinoma	LUAD	526	471
Skin cutaneous melanoma	SKCM	471	473
Uterine corpus endometrial carcinoma	UCEC	548	436
Bladder urothelial carcinoma	BLCA	411	416
Liver hepatocellular carcinoma	LIHC	374	380
Lung squamous cell carcinoma	LUSC	501	370
Stomach adenocarcinoma	STAD	375	395
Kidney renal clear cell carcinoma	KIRC	535	323
Cervical squamous cell carcinoma and	CESC	306	309
endocervical adenocarcinoma			
Colon adenocarcinoma	COAD	471	309
Kidney renal papillary cell carcinoma	KIRP	289	276
Sarcoma	SARC	263	265
Pheochromocytoma and paraganglioma	PCPG	183	184
Pancreatic adenocarcinoma	PAAD	178	185
Esophageal carcinoma	ESCA	162	186
Testicular germ cell tumours	TGCT	156	156
Thymoma	THYM	119	124
Acute myeloid leukemia	LAML	151	140
Rectum adenocarcinoma	READ	167	99
Mesothelioma	MESO	86	87
Uveal melanoma	UVM	80	80
Adrenocortical carcinoma	ACC	79	80
Kidney chromophobe	KICH	65	66
Uterine carcinosarcoma	UCS	56	57
Lymphoid neoplasm diffuse large B-cell	DLBC	48	48
lymphoma			
Cholangiocarcinoma	CHOL	36	36
Ovarian serous cystadenocarcinoma	OV	379	10
Glioblastoma multiforme	GBM	168	153
Normal control		741	746
Total		11,068	9,736

Supplementary Table 2: Detailed tumour type information of the BTM dataset.

Methylation Class	Abbreviation	Count
Embryonal tumor with multilayered rosettes	ETMR	49
Medulloblastoma, WNT	MB, WNT	48
Medulloblastoma, subclass group 3	MB, G3	99
Medulloblastoma, subclass group 4	MB, G4	181
Medulloblastoma, subclass SHH A (children and adult)	MB, SHH CHL AD	126
Medulloblastoma, subclass SHH B (infant)	MB, SHH INF	65
Atypical teratoid/rhabdoid tumor, subclass MYC	ATRT, MYC	31
Atypical teratoid/rhabdoid tumor, subclass SHH	ATRT, SHH	51
Atypical teratoid/rhabdoid tumor, subclass TYR	ATRT, TYR	39
CNS neuroblastoma with FOXR2 activation	CNS NB, FOXR2	43
CNS high grade neuroepithelial tumor with BCOR alteration	HGNET, BCOR	26
Diffuse midline glioma H3 K27M mutant	DMG, K27	117
Glioblastoma, IDH wildtype, H3.3 G34 mutant	GBM, G34	54
Glioblastoma, IDH wildtype, subclass mesenchymal	GBM, MES	160
Glioblastoma, IDH wildtype, subclass RTK I	GBM, RTK I	108
Glioblastoma, IDH wildtype, subclass RTK II	GBM, RTK II	261
Glioblastoma, IDH wildtype, subclass RTK III	GBM, RTK III	22
Glioblastoma, IDH wildtype, subclass midline	GBM, MID	33
Glioblastoma, IDH wildtype, subclass MYCN	GBM, MYCN	33
Central neurocytoma	CN	23
Diffuse leptomeningeal glioneuronal tumor	DLGNT	12
Cerebellar liponeurocytoma	LIPN	11
Low grade glioma, desmoplastic infantile astrocytoma / ganglioglioma	LGG, DIG/DIA	8
Low grade glioma, desmoprastic infantile astrocytoma / gangnognoma Low grade glioma, dysembryoplastic neuroepithelial tumor	LGG, DNT	56
Low grade glioma, rosette forming glioneuronal tumor	LGG, RGNT	12
Retinoblastoma	RETB	19
Esthesioneuroblastoma, subclass A	ENB, A	24
Esthesioneuroblastoma, subclass B	ENB, B	16
Paraganglioma, spinal non-CIMP	PGG, nC	20
Low grade glioma, ganglioglioma	LGG, GG	26
Craniopharyngioma, adamantinomatous	CPH, ADM	25
Craniopharyngioma, papillary	CPH, PAP	20
Pituitary adenoma, ACTH	PITAD, ACTH	19
Pituitary adenoma, FSH/LH	PITAD, FSH LH	23
Pituitary adenoma, prolactin	PITAD, PRL	8
Pituitary adenoma, STH densely granulated, group A	PITAD, STH DNS A	9
Pituitary adenoma, STH densely granulated, group B	PITAD, STH DNS B	13
Pituitary adenoma, STH sparsely granulated	PITAD, STH SPA	17
Pituitary adenoma, TSH	PITAD, TSH	11
Pituicytoma / granular cell tumor / spindle cell oncocytoma	PITUI	30
Ependymoma, myxopapillary	EPN, MPE	45
Ependymoma, myxopapmary Ependymoma, posterior fossa group A	EPN, PF A	127
Ependymoma, posterior fossa group B	EPN, PF B	59
Ependymoma, RELA fusion	EPN, RELA	90
Ependymoma, spinal	EPN, RELA EPN, SPINE	34
Ependymoma, YAP fusion	EPN, YAP	11
Subependymoma, posterior fossa	SUBEPN, PF	40
Subependymoma, spinal	SUBEPN, SPINE	12
Subependymoma, spinar Subependymoma, supratentorial	SUBEPN, ST	20
Chordoid glioma of the third ventricle	CHGL	12
Low grade glioma, subependymal giant cell astrocytoma	LGG, SEGA	22
Low grade gnoma, subependymai grant cen astrocytoma	LGG, SEGA	

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