## 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 multi-omics datasets from Genomic Data Commons (GDC). 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 GSE109381 Brain Tumour Methylation (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
	ATRT, MYC	
Atypical teratoid/rhabdoid tumor, subclass MYC	ATRT, MYC	31
Atypical teratoid/rhabdoid tumor, subclass 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, 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, 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, SPINE	34
Ependymoma, YAP fusion	EPN, YAP	11
Subependymoma, posterior fossa	SUBEPN, PF	40
Subependymoma, spinal	SUBEPN, SPINE	12
Subependymoma, supratentorial	SUBEPN, ST	20
Chordoid glioma of the third ventricle	CHGL	12
Low grade glioma, subependymal giant cell astrocytoma	LGG, SEGA	22
		1

Low grade glioma, subclass midline pilocytic astrocytoma Ana Pa 46 Anaplastic pilocytic astrocytoma CNS high grade neuroepithelial tumor with MN1 alteration HGNET, MN1 26 Infantile hemispheric glioma Low grade glioma, grade patientelial tumor with MN1 alteration Low grade glioma, MYB/MYBL1 Low grade glioma, subclass posterior fossa pilocytic astrocytoma LGG, PA/GG ST 45 (Anaplastic) pleomorphic xanthoastrocytoma PXA 67 Schwamnoma SCHW 31 Melanotic schwannoma SCHW, MEL 12 Papillary tumor of the pineal region group A PTPR, A 9 Papillary tumor of the pineal region group B PTPR, B 23 Pineoblastoma group A / intracranial retinoblastoma Pin T, PB A 9 Pineoblastoma group B PIN T, PB A 9 Pineoblastoma group B PIN T, PB A 9 Pineoblastoma group B PIN T, PB A 12 CHORDM 11 Ewing sarcoma EWS 17 Hemangioblastoma BWS 17 Melanoma MNG 149 Solitary fibrous tumor / hemangiopericytoma CKNS Ewing sarcoma family tumor with ClC alteration PLEX, AD 23 Plexus tumor, subclass adult PLEX, AD 23 Plexus tumor, subclass paediatric A PLEX, PED A 16 PLEX, PED A 16 PLEX, PED B 49 IDH glioma, subclass Ip/19q codeleted oligodendroglioma PLASMA 8 LYMPHO 14 Plasmacytoma PLASMA 8 PLEX, PED B 49 IDH glioma, subclass lip/19q codeleted oligodendroglioma CONTR, DEBM 8 CONTR, DEBM 8 CONTR, DEBM 8 CONTR, PEDRAM 24 Control tissue, cerebellar hemisphere CONTR, PEDRAM 24 Control tissue, initial matter CONTR, PEDRAM 24 Control tissue, pineal gland CONTR, PEDRAM 24 Control tissue, pineal gland CONTR, PEDRAM 24 Control tissue, excepted and control microenvironment CONTR, PEDRAM 24 Control tissue, pineal gland CONTR, PEDRAM 24 Control tissue, with matter	Low grade glioma, subclass hemispheric pilocytic astrocytoma and ganglioglioma	LGG, PA MID	55
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CNS high grade neuroepithelial tumor with MN1 alteration			46
Infantile hemispheric glioma  Low grade glioma, MYB/MYBL1  Low grade glioma, MYB/MYBL1  Low grade glioma, MYB/MYBL1  Low grade glioma, MYB/MYBL1  Low grade glioma, subclass posterior fossa pilocytic astrocytoma  LGG, PA/GG ST 45  (Anaplastic) pleomorphic xanthoastrocytoma  SCHW 31  Melanotic schwannoma  SCHW MBL 12  Papillary tumor of the pineal region group A  PTPR, A 9  Papillary tumor of the pineal region group B  PTPR, B 23  Pineoblastoma group A / intracranial retinoblastoma  PIN T, PB A 9  Pineoblastoma group B PIN T, PB A 9  Pineoblastoma group B PIN T, PB B 23  Pineal parenchymal tumor  Chordoma  CHORDM 11  Ewing sarcoma  EWS 17  Hemangioblastoma  HMB 27  Meningioma  MNG 149  Solitary fibrous tumor / hemangiopericytoma  CNS Ewing sarcoma family tumor with CIC alteration  EFT, CIC 13  Melanoma  MELAN 18  Melanocytoma  MELCYT 19  Plexus tumor, subclass adult  PLEX, ADD 23  Plexus tumor, subclass paediatric A  PLEX, PED A 16  PLEX, PED A 16  PLEX, PED B 49  IDH glioma, subclass paediatric B  IDH glioma, subclass paediatric B  IDH glioma, subclass ligh grade astrocytoma  A IDH 172  IDH glioma, subclass ligh grade astrocytoma  PLASMA  87  Control tissue, pituitary gland anterior lobe  CONTR, CEBM 8  CONTR, HEMI 13  Control tissue, energia and  CONTR, PINEAL 12  Control tissue, pineal gland  CONTR, PINEAL 12  Control tissue, pineal gland  CONTR, REACT 23  Control tissue, white matter		HGNET, MN1	26
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Schwannoma         SCHW         31           Melanotic schwannoma         SCHW, MEL         12           Papillary tumor of the pineal region group A         PTPR, A         9           Papillary tumor of the pineal region group B         PTPR, B         23           Pineoblastoma group A / intracranial retinoblastoma         PIN T, PB A         9           Pineoblastoma group B         PIN T, PB B         23           Pineoblastoma group B         PIN M         PIN M           Melanoma         MELON         18           Melanoma         MELON         18 <tr< td=""><td></td><td>LGG, PA/GG ST</td><td>45</td></tr<>		LGG, PA/GG ST	45
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Papillary tumor of the pineal region group B Pineoblastoma group A / intracranial retinoblastoma Pineoblastoma group B Pineoblastoma Pin	Melanotic schwannoma	SCHW, MEL	12
Pineoblastoma group A / intracranial retinoblastoma Pineoblastoma group B Pineoblastoma group B Pin T, PB B Pin T, PB B Pin T, PB B Pin T, PPT Pin T, PPB A Pin T, PPB A Pin T, PPB A Pin T, PP B B Pin T, PB A Pin T, PB A Pin T, PP B B Pin T, PP B B Pin T, PB A Pin T, PP B B Pin T, PP B B Pin T, PP B A Pin T, PP A	Papillary tumor of the pineal region group A	PTPR, A	9
Pineoblastoma group B PIN T, PB B 23 Pineal parenchymal tumor PIN T, PPT 20 Chordoma CHORDM 11 Ewing sarcoma EWS 17 Hemangioblastoma HMB 27 Meningioma MNG 149 Solitary fibrous tumor / hemangiopericytoma EFT, CIC 13 Melanoma MELAN 18 Melanocytoma MELCYT 19 Plexus tumor, subclass adult PLEX, AD 23 Plexus tumor, subclass paediatric A PLEX, PED A 16 Plexus tumor, subclass paediatric B PLEX, PED B 49 IDH glioma, subclass paediatric B PLEX, PED B 49 IDH glioma, subclass high grade astrocytoma A IDH 172 IDH glioma, subclass ligh grade astrocytoma A IDH 163 Lymphoma PLASMA 8 Control tissue, pituitary gland anterior lobe CONTR, ADENOPIT 9 Control tissue, cerebellar hemisphere CONTR, CEBM 8 Control tissue, ererblelar hemisphere CONTR, HEMI 13 Control tissue, inflammatory tumor microenvironment CONTR, INFLAM 24 Control tissue, pineal gland CONTR, PINEAL 12 Control tissue, pons CONTR, REACT 23 Control tissue, white matter CONTR, WM 9	Papillary tumor of the pineal region group B	PTPR, B	23
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Hemangioblastoma	Chordoma	CHORDM	11
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CNS Ewing sarcoma family tumor with CIC alteration  Melanoma  Melanoma  Melanocytoma  Plexus tumor, subclass adult  Plexus tumor, subclass paediatric A  Plexus tumor, subclass paediatric B  Plexus ped A  IDH glioma, subclass astrocytoma  IDH glioma, subclass astrocytoma  IDH glioma, subclass ligh grade astrocytoma  IDH glioma, subclass 1p/19q codeleted oligodendroglioma  Lymphoma  I Lymphoma  Plasmacytoma  Control tissue, pituitary gland anterior lobe  Control tissue, pituitary gland anterior lobe  Control tissue, cerebellar hemisphere  Control tissue, hemispheric cortex  Control tissue, hemispheric cortex  Control tissue, hypothalamus  Control tissue, inflammatory tumor microenvironment  Control tissue, pineal gland  Control tissue, pineal gland  Control tissue, pons  Control tissue, reactive tumor microenvironment  Control tissue, white matter  Control tissue, white matter  Control tissue, white matter  Control, WM  9	Meningioma	MNG	149
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Plexus tumor, subclass paediatric A Plexus tumor, subclass paediatric B Plexus Pet D A Plexus tumor, subclass paediatric B Plexus Pet D A Plexus tumor, subclass paediatric B Plexus Pet D A	Melanocytoma	MELCYT	19
Plexus tumor, subclass paediatric B  IDH glioma, subclass astrocytoma  IDH glioma, subclass high grade astrocytoma  IDH glioma, subclass high grade astrocytoma  IDH glioma, subclass 1p/19q codeleted oligodendroglioma  Lymphoma  ILYMPHO  ILYMPHO  Plasmacytoma  Control tissue, pituitary gland anterior lobe  Control tissue, cerebellar hemisphere  Control tissue, hemispheric cortex  Control tissue, hypothalamus  Control tissue, hypothalamus  Control tissue, inflammatory tumor microenvironment  Control tissue, pineal gland  Control tissue, pons  Control tissue, reactive tumor microenvironment  Control tissue, reactive tumor microenvironment  Control tissue, reactive tumor microenvironment  Control tissue, white matter  Control tissue, white matter	Plexus tumor, subclass adult		23
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IDH glioma, subclass high grade astrocytoma   A IDH, HG   87   IDH glioma, subclass 1p/19q codeleted oligodendroglioma   O IDH   163   Lymphoma   LYMPHO   14   Plasmacytoma   PLASMA   8   Control tissue, pituitary gland anterior lobe   CONTR, ADENOPIT   9   Control tissue, cerebellar hemisphere   CONTR, CEBM   8   Control tissue, hemispheric cortex   CONTR, HEMI   13   Control tissue, hypothalamus   CONTR, HYPTHAL   9   Control tissue, inflammatory tumor microenvironment   CONTR, INFLAM   24   Control tissue, pineal gland   CONTR, PINEAL   12   Control tissue, pons   CONTR, PONS   12   Control tissue, reactive tumor microenvironment   CONTR, REACT   23   Control tissue, white matter   CONTR, WM   9	Plexus tumor, subclass paediatric B	PLEX, PED B	49
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Control tissue, pituitary gland anterior lobeCONTR, ADENOPIT9Control tissue, cerebellar hemisphereCONTR, CEBM8Control tissue, hemispheric cortexCONTR, HEMI13Control tissue, hypothalamusCONTR, HYPTHAL9Control tissue, inflammatory tumor microenvironmentCONTR, INFLAM24Control tissue, pineal glandCONTR, PINEAL12Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9	Lymphoma	LYMPHO	
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Control tissue, hemispheric cortexCONTR, HEMI13Control tissue, hypothalamusCONTR, HYPTHAL9Control tissue, inflammatory tumor microenvironmentCONTR, INFLAM24Control tissue, pineal glandCONTR, PINEAL12Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9	Control tissue, pituitary gland anterior lobe		9
Control tissue, hypothalamusCONTR, HYPTHAL9Control tissue, inflammatory tumor microenvironmentCONTR, INFLAM24Control tissue, pineal glandCONTR, PINEAL12Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9		CONTR, CEBM	
Control tissue, inflammatory tumor microenvironmentCONTR, INFLAM24Control tissue, pineal glandCONTR, PINEAL12Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9			13
Control tissue, pineal glandCONTR, PINEAL12Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9			9
Control tissue, ponsCONTR, PONS12Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9	Control tissue, inflammatory tumor microenvironment		24
Control tissue, reactive tumor microenvironmentCONTR, REACT23Control tissue, white matterCONTR, WM9			
Control tissue, white matter CONTR, WM 9			
	Control tissue, white matter	CONTR, WM	9
	Total		3,905