



TCGA基因表达和临床性状关系

生信自学网

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主要内容

- 简介
- 临床数据下载
- 临床数据提取
- 两组临床性状差异
- 热图
- 多组临床性状差异

临床数据下载

? View, zoom, and pan slide images in the GDC Data Portal – see [GDC Portal User's Guide](#) for details Dismiss x

NIH NATIONAL CANCER INSTITUTE
GDC Data Portal

Home Projects Exploration Analysis Repository

Quick Search Manage Sets Login Cart 0 GDC Apps

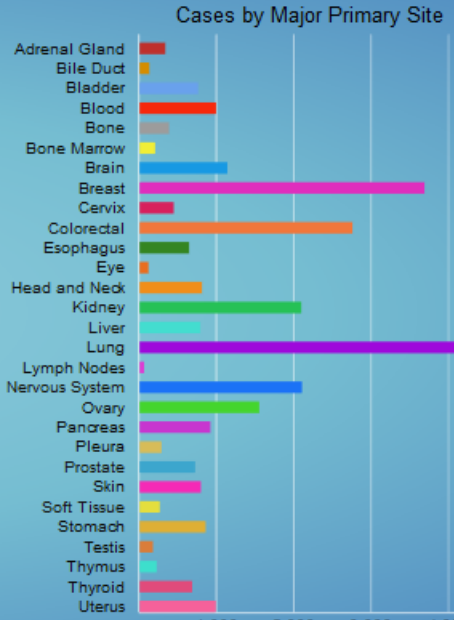
Harmonized Cancer Datasets

Genomic Data Commons Data Portal

Get Started by Exploring:

Projects Exploration Analysis Repository

Q e.g. BRAF, Breast, TCGA-BLCA, TCGA-A5-A0G2























Primary Site	Cases (approx.)
Adrenal Gland	100
Bile Duct	100
Bladder	100
Blood	100
Bone	100
Bone Marrow	100
Brain	100
Breast	3,500
Cervix	100
Colorectal	2,500
Esophagus	100
Eye	100
Head and Neck	100
Kidney	1,500
Liver	100
Lung	4,000
Lymph Nodes	100
Nervous System	1,500
Ovary	1,500
Pancreas	100
Pleura	100
Prostate	100
Skin	100
Soft Tissue	100
Stomach	100
Testis	100
Thymus	100
Thyroid	100
Uterus	100

GDC Applications

The GDC Data Portal is a robust data-driven platform that allows cancer researchers and bioinformaticians to search and download cancer data for analysis. The GDC applications include:

biowolf.cn
生信自学网

临床数据提取

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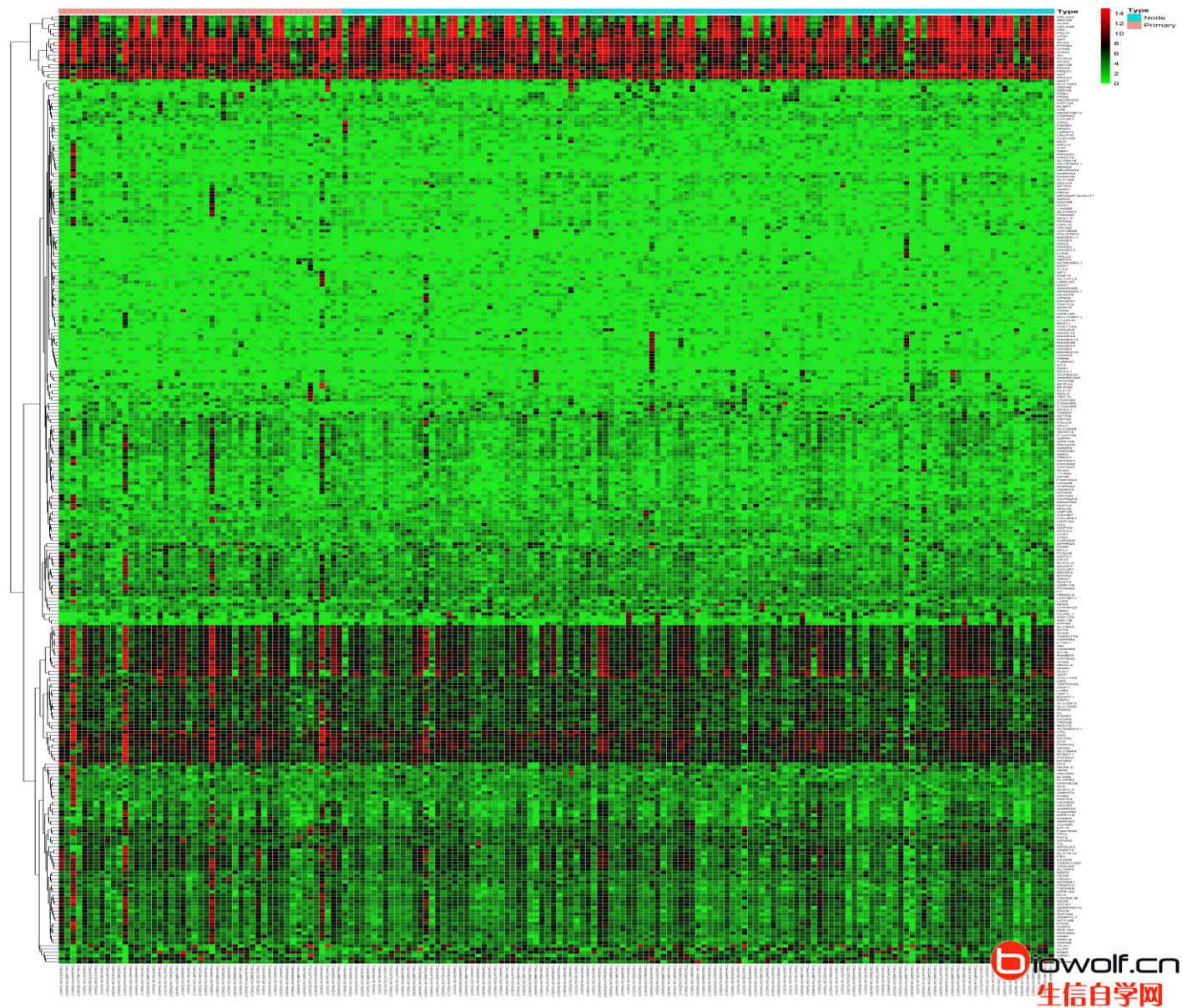
临床数据提取

Id	futime	fustat	age	gender	race	grade	stage	T	M	N
TCGA-HZ-A77P	330	0	77	MALE	WHITE	G1	Stage IIB	T3	MX	N1
<u>TCGA-IB-AAUR</u>	338	0	67	MALE	WHITE	G1	Stage IIB	T3	M0	N1
TCGA-3A-A9IV	1103	0	59	FEMALE	WHITE	G1	Stage IB	T2	MX	N0
TCGA-2J-AABH	677	0	61	MALE	WHITE	G3	Stage IIA	T3	M0	N0
TCGA-F2-A44H	586	0	65	MALE	WHITE	G2	Stage IIA	T3	M0	N0
TCGA-HZ-7924	840	0	60	FEMALE	WHITE	G2	Stage IIA	T3	MX	N0
TCGA-HZ-A49G	660	0	58	FEMALE	WHITE	G2	Stage IIB	T2	MX	N1
TCGA-FB-AAQ2	153	1	81	FEMALE	WHITE	G3	Stage IIB	T3	MX	N1
TCGA-2L-AAQE	684	1	56	MALE	WHITE	G2	Stage IIB	T3	M0	N1
<u>TCGA-IB-AAUM</u>	8	0	76	MALE	WHITE	G3	Stage IIB	T2	M0	N1
TCGA-HZ-A49I	308	1	77	MALE	WHITE	G2	Stage IIB	T3	MX	N1
TCGA-FZ-5922	1101	1	81	MALE	WHITE	G2	Stage IIA	T3	M0	N0
TCGA-FB-A4P6	363	0	54	MALE	WHITE	G1	Stage IIB	T3	MX	N1
TCGA-3A-A9IO	1942	0	55	MALE	WHITE	G1	<u>unknow</u>	TX	MX	NX
TCGA-YB-A89D	350	0	59	MALE	WHITE	G2	Stage IIB	T3	MX	N1
TCGA-HZ-7925	614	1	66	MALE	WHITE	G2	Stage IIB	T3	MX	N1
TCGA-IB-7654	476	1	80	MALE	WHITE	G2	Stage IIB	T2	M0	N1
TCGA-XN-A8T5	720	0	53	FEMALE	WHITE	G2	Stage IB	T2	M0	N0

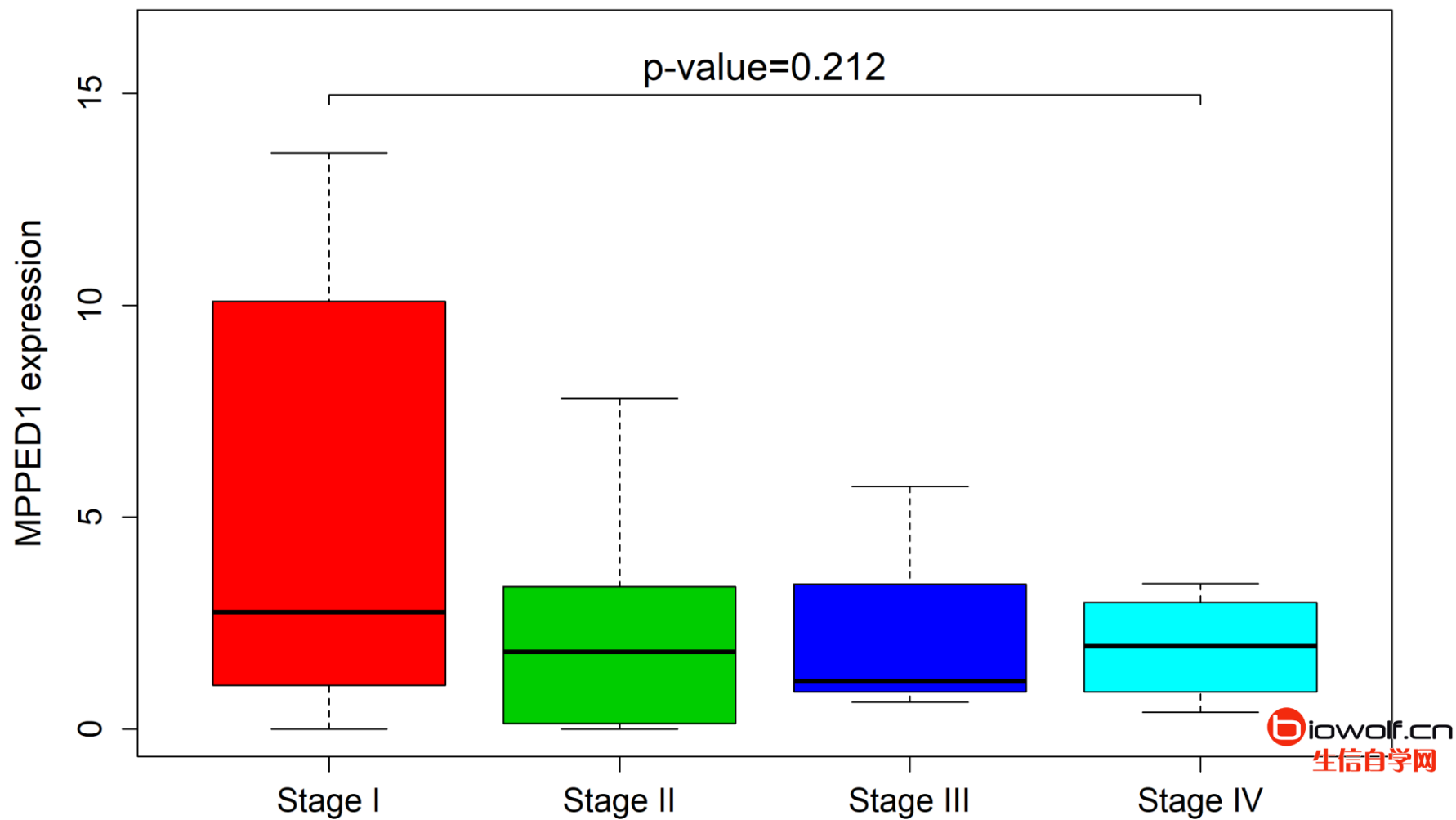
差异表达

gene	<u>logFC</u>	<u>logCPM</u>	<u>PValue</u>	FDR
MPPED1	-6.718940436	0.867606781	7.04E-48	1.26E-43
PRSS57	-7.678635682	1.24056784	8.22E-43	7.36E-39
ELANE	-5.056115947	1.807455364	3.59E-39	2.14E-35
FTCD	-4.17129874	2.37823381	4.13E-37	1.85E-33
GPR179	-3.759958088	0.057878297	8.45E-36	3.03E-32
C1QL1	-3.987342808	4.013431128	4.48E-35	1.34E-31
HAP1	-3.67735986	2.778785466	1.74E-34	4.46E-31
GABRG3	-5.988760651	0.388172436	2.67E-32	5.98E-29
VSTM2A	-4.605858574	1.656526569	2.12E-31	4.21E-28
EPHA5	-3.695984088	0.199732165	1.82E-30	3.27E-27

热图



多组临床性状差异





Thanks!!!

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