

Table 1

Study characteristics of the 23 datasets (17 cancer + 6 septic shock) selected for this study. TCGA stands for The Cancer Genome Atlas. GEO stands for NCBI Gene Expression Omnibus.

Study_Code	Study_Name	Data source	Disease	Tissue	Number of samples	Paired control	Technology
BLCA	Bladder Urothelial Carcinoma	TCGA	Cancer	Bladder	38	Yes	RNA-seq (Illumina)
BRCA	Breast invasive carcinoma	TCGA	Cancer	Breast	220	Yes	RNA-seq (Illumina)
CHOL	Cholangiocarcinoma	TCGA	Cancer	Gallbladder, liver and parts of biliary tract	18	Yes	RNA-seq (Illumina)
COAD	Colon adenocarcinoma	TCGA	Cancer	Colon and rectosigmoid junction	82	Yes	RNA-seq (Illumina)
ESCA	Esophageal carcinoma	TCGA	Cancer	Esophagus	16	Yes	RNA-seq (Illumina)
HNSC	Head and Neck squamous cell carcinoma	TCGA	Cancer	Base of tongue, floor of mouth, gum, hypo- and oro-pharynx, larynx, etc.	86	Yes	RNA-seq (Illumina)
KICH	Kidney Chromophobe	TCGA	Cancer	Kidney	48	Yes	RNA-seq (Illumina)
KIRC	Kidney renal clear cell carcinoma	TCGA	Cancer	Kidney	144	Yes	RNA-seq (Illumina)
KIRP	Kidney renal papillary cell carcinoma	TCGA	Cancer	Kidney	64	Yes	RNA-seq (Illumina)
LIHC	Liver hepatocellular carcinoma	TCGA	Cancer	Liver and intrahepatic bile ducts	100	Yes	RNA-seq (Illumina)
LUAD	Lung adenocarcinoma	TCGA	Cancer	Bronchus and lung	114	Yes	RNA-seq (Illumina)
LUSC	Lung squamous cell carcinoma	TCGA	Cancer	Bronchus and lung	98	Yes	RNA-seq (Illumina)
PRAD	Prostate adenocarcinoma	TCGA	Cancer	Prostate gland	104	Yes	RNA-seq (Illumina)
READ	Rectum adenocarcinoma	TCGA	Cancer	Rectum rectosigmoid junction	20	Yes	RNA-seq (Illumina)
STAD	Stomach adenocarcinoma	TCGA	Cancer	Stomach	62	Yes	RNA-seq (Illumina)
THCA	Thyroid carcinoma	TCGA	Cancer	Thyroid gland	116	Yes	RNA-seq (Illumina)
UCEC	Uterine Corpus Endometrial Carcinoma	TCGA	Cancer	Corpus uteri	46	Yes	RNA-seq (Illumina)
GSE4607	Septic Shock	GEO	Septic Shock	Whole Blood	84	No	Microarray (Affymetrix HGU 133 Plus 2.0)
GSE8121	Septic Shock	GEO	Septic Shock	Whole Blood	75	No	Microarray (Affymetrix HGU 133 Plus 2.0)
GSE9692	Septic Shock	GEO	Septic Shock	Whole Blood	45	No	Microarray (Affymetrix HGU 133 Plus 2.0)
GSE13904	Septic Shock	GEO	Septic Shock	Whole Blood	124	No	Microarray (Affymetrix HGU 133 Plus 2.0)
GSE26378	Septic Shock	GEO	Septic Shock	Whole Blood	103	No	Microarray (Affymetrix HGU 133 Plus 2.0)
GSE26440	Septic Shock	GEO	Septic Shock	Whole Blood	130	No	Microarray (Affymetrix HGU 133 Plus 2.0)