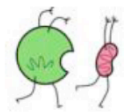


# Autophagy and Tumor Database



## **Web API document**

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# Index

## Base URL

<http://47.110.225.123/medicine/>

## Index

No.	Endpoints	Description
T1	<a href="#">/geneList</a>	retrieve the general information of all the genes included in this website
T2	<a href="#">/tumorList</a>	retrieve the general information of all the tumors included in this website
T3	<a href="#">/gene</a>	retrieve the general information of one gene
T4	<a href="#">/geneTissue</a>	get the gene expression in tissues
T5	<a href="#">/geneCell</a>	get the gene expression in cell-lines
T6	<a href="#">/genePhosphorylation</a>	get Post-Transcriptional Modification information
T7	<a href="#">/geneMirna</a>	get the correlation statistics between a certain gene and microRNAs
T8	<a href="#">/geneLncRna</a>	get the correlation statistics between a certain gene and lncRNAs
T9	<a href="#">/geneTranscriptFactor</a>	get the correlation statistics between a certain gene and transcription factors
T10	<a href="#">/genePhosphorylation</a>	get post-transcriptional modification information of genes
T11	<a href="#">/geneRegulationLncrna</a>	get manually curated interaction between genes and lncRNAs
T12	<a href="#">/geneRegulationMicrorna</a>	get manually curated interaction between genes and microRNAs
T13	<a href="#">/geneMethylation</a>	get manually curated DNA methylation records
T14	<a href="#">/geneAnimalModel</a>	get manually curated animal model records
T15	<a href="#">/getAlternativeSplicing</a>	get expression data of alternative splicing transcript
T16	<a href="#">/scatter</a>	get the paired expression data of gene and microRNAs, lncRNAs and transcript factors. The data were used to draw the scatter plot.
T17	<a href="#">/tumorStage</a>	get the summary statistic of expression data by stage in tumor
T18	<a href="#">/tumorTissue</a>	get the summary statistic of expression data by in cancer tissue or normal tissue
T19	<a href="#">/tumorSurvival</a>	get the summary statistic of expression data by survival condition

T20	<a href="#">/tumorTranscriptFactor</a>	get the correlation statistics between genes and transcription factors in a certain tumor
T21	<a href="#">/tumorMirrna</a>	get the correlation statistics between genes and microRNAs in a certain tumor
T22	<a href="#">/tumorLncRna</a>	get the correlation statistics between genes and microRNAs in a certain tumor
T23	<a href="#">/tumorFilterDetails</a>	get subpopulations selection filter details (applied to TCGA data only)
T24	<a href="#">/getGSEPlatform</a>	get the included GEO Series
T25	<a href="#">/getTCGA</a>	get the survival time and event data for one GSE dataset

# T1

description	retrieve the general information of all the genes included in this website.
URL	<a href="http://47.110.225.123/medicine/geneList">http://47.110.225.123/medicine/geneList</a>
method	GET
parameters	NA
example	<a href="http://47.110.225.123/medicine/geneList">http://47.110.225.123/medicine/geneList</a>

# T2

description	retrieve the general information of all the tumors included in this website.
URL	<a href="http://47.110.225.123/medicine/tumorList">http://47.110.225.123/medicine/tumorList</a>
method	GET
parameters	NA

# T3

description	retrieve the general information of one gene
URL	<a href="http://47.110.225.123/medicine/gene">http://47.110.225.123/medicine/gene</a>
method	GET
parameters	<b>gene_id</b> # int, the id of the gene in Auchive. See Supplementary.

# T4

description	get the gene expression in tissues
URL	<a href="http://47.110.225.123/medicine/geneTissue">http://47.110.225.123/medicine/geneTissue</a>

method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary <b>orderName</b> # one of <b>label</b> OR <b>value</b> . How the results were ranked. label for anatomic order, value for value as numeric. <b>searchName</b> # one of <b>HPA</b> OR <b>FANTOM5</b> OR <b>GTE</b> x. <b>searchType</b> # platform. No other choice.
example	<a href="http://47.110.225.123/medicine//geneTissue?gene_id=2&amp;orderName=value&amp;searchType=platform&amp;searchName=FANTOM5">http://47.110.225.123/medicine//geneTissue?gene_id=2&amp;orderName=value&amp;searchType=platform&amp;searchName=FANTOM5</a>

## T5

description	get the gene expression in cell-lines
URL	<a href="http://47.110.225.123/medicine//geneCell">http://47.110.225.123/medicine//geneCell</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary <b>orderName</b> # one of <b>label</b> OR <b>value</b> . How the results were ranked. label for alphabetic order, value for value as numeric.
example	<a href="http://47.110.225.123/medicine//geneCell?gene_id=2&amp;orderName=label">http://47.110.225.123/medicine//geneCell?gene_id=2&amp;orderName=label</a>

## T6

description	get Post-Transcriptional Modification information
URL	<a href="http://47.110.225.123/medicine//genePhosphorylation">http://47.110.225.123/medicine//genePhosphorylation</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//genePhosphorylation?gene_id=23">http://47.110.225.123/medicine//genePhosphorylation?gene_id=23</a>

## T7

description	get the correlation statistics between a certain gene and microRNAs
URL	<a href="http://47.110.225.123/medicine/geneMirna">http://47.110.225.123/medicine/geneMirna</a>
method	POST
parameters	<p><b>gene_id</b> # the id of the gene in Auchive. See Supplementary</p> <p><b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient</p> <p><b>p_value</b> # threshold of p value</p> <p><b>idlist</b> # List&lt;String&gt;. the list of ids of selected tumors. See Supplemenrary.</p> <p><b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b>. the field by which data are sorted.</p> <p><b>orderType</b> ## <b>asc</b> OR <b>desc</b>.</p>
example	<p><b>Request URL</b></p> <p><a href="http://47.110.225.123/medicine//geneMirna">http://47.110.225.123/medicine//geneMirna</a></p> <p><b>Headers</b></p> <p>Accept: application/json, text/javascript, */*; q=0.01</p> <p>Content-Type: application/json</p> <p>Origin: http://bigzju.com</p> <p>Referer: http://bigzju.com/autophagy_archive/</p> <p><b>Body</b></p> <pre>{"gene_id":"22","correlation_coefficient":"0.5","p_value":"0.1","idlist":["1","17"],"orderName":"correlation_coefficient","orderType":"asc"}</pre>

## T8

description	get the correlation statistics between a certain gene and lncRNAs
URL	<a href="http://47.110.225.123/medicine/geneLncRna">http://47.110.225.123/medicine/geneLncRna</a>
method	POST
parameters	<p><b>gene_id</b> # the id of the gene in Auchive. See Supplementary</p> <p><b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient</p> <p><b>p_value</b> # threshold of p value</p> <p><b>idlist</b> # List&lt;String&gt;. the list of ids of selected tumors. See Supplemenrary.</p> <p><b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b>. the field by which data are sorted.</p> <p><b>orderType</b> ## <b>asc</b> OR <b>desc</b>.</p>

example	<p><b>Request URL</b>  <a href="http://47.110.225.123/medicine//geneLncRna">http://47.110.225.123/medicine//geneLncRna</a></p> <p><b>Headers</b>  Accept: application/json, text/javascript, */*; q=0.01  Content-Type: application/json  Origin: http://bigzju.com  Referer: http://bigzju.com/autophagy_archive/</p> <p><b>Body</b>  {"gene_id":"22","correlation_coefficient":"0.5","p_value":"0.1","idlist":["1","17"],"orderName":"correlation_coefficient","orderType":"asc"}</p>
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## T9

description	get the correlation statistics between a certain gene and transcription factors
URL	<a href="http://47.110.225.123/medicine//geneTranscriptFactor">http://47.110.225.123/medicine//geneTranscriptFactor</a>
method	POST
parameters	<p><b>gene_id</b> # the id of the gene in Auchive. See Supplementary</p> <p><b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient</p> <p><b>p_value</b> # threshold of p value</p> <p><b>idlist</b> # List&lt;String&gt;. the list of ids of selected tumors. See Supplemenrary.</p> <p><b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b>. the field by which data are sorted.</p> <p><b>orderType</b> ## <b>ass</b> OR <b>desc</b>.</p>
example	<p><b>Request URL:</b>  <a href="http://47.110.225.123/medicine//geneTranscriptFactor">http://47.110.225.123/medicine//geneTranscriptFactor</a></p> <p><b>Headers</b>  Accept: application/json, text/javascript, */*; q=0.01  Content-Type: application/json  Origin: http://bigzju.com  Referer: http://bigzju.com/autophagy_archive/</p> <p><b>Body</b>  {"gene_id":"22","idlist":["1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","20","21","22","23","24","25"],"orderName":"correlation_coefficient","orderType":"asc"}</p>



## T10

description	get post-transcriptional modification information of genes
URL	<a href="http://47.110.225.123/medicine//genePhosphorylation">http://47.110.225.123/medicine//genePhosphorylation</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//genePhosphorylation?gene_id=22">http://47.110.225.123/medicine//genePhosphorylation?gene_id=22</a>

## T11

description	get manually curated interaction between genes and lncRNAs
URL	<a href="http://47.110.225.123/medicine/geneRegulationLncrna">http://47.110.225.123/medicine/geneRegulationLncrna</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//geneRegulationLncrna?gene_id=22">http://47.110.225.123/medicine//geneRegulationLncrna?gene_id=22</a>

## T12

description	get manually curated interaction between genes and microRNAs
URL	<a href="http://47.110.225.123/medicine/geneRegulationMicrorna">http://47.110.225.123/medicine/geneRegulationMicrorna</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine/geneRegulationMicrorna?gene_id=22">http://47.110.225.123/medicine/geneRegulationMicrorna?gene_id=22</a>

## T13

description	get manually curated DNA methylation records
URL	<a href="http://47.110.225.123/medicine//geneMethylation">http://47.110.225.123/medicine//geneMethylation</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine/geneMethylation?gene_id=22">http://47.110.225.123/medicine/geneMethylation?gene_id=22</a>

## T14

description	get manually curated animal model records
URL	<a href="http://47.110.225.123/medicine//geneAnimalModel">http://47.110.225.123/medicine//geneAnimalModel</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine/geneAnimalModel?gene_id=22">http://47.110.225.123/medicine/geneAnimalModel?gene_id=22</a>

## T15

description	get expression data of alternative splicing transcript
URL	<a href="http://47.110.225.123/medicine/getAlternativeSplicing">http://47.110.225.123/medicine/getAlternativeSplicing</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary <b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//getAlternativeSplicing?gene_id=22&amp;tumor_id=7">http://47.110.225.123/medicine//getAlternativeSplicing?gene_id=22&amp;tumor_id=7</a>

## T16

description	get the paired expression data of gene and microRNAs, lncRNAs and transcript factors. The data were used to draw the scatter plot.
URL	<a href="http://47.110.225.123/medicine//scatter">http://47.110.225.123/medicine//scatter</a>
method	GET
parameters	<b>gene_id</b> # the id of the gene in Auchive. See Supplementary <b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary <b>symbol</b> # the name of microRNAs, lncRNAs and transcript factors. The candidate symbol could be retrieved from <a href="#">/geneMirna</a> , <a href="#">/geneLncRna</a> , <a href="#">/geneTranscriptFactor</a> . See T7, T8,T9. <b>type</b> # 0 OR 1 OR 2. 0 for lncRNAs, 1 for transcript factors, 2 for microRNAs.
example	<a href="http://47.110.225.123/medicine//scatter?gene_id=22&amp;tumor_id=2&amp;symbol=hsa-mir-18a&amp;type=2">http://47.110.225.123/medicine//scatter?gene_id=22&amp;tumor_id=2&amp;symbol=hsa-mir-18a&amp;type=2</a>

## T17

description	get the summary statistic of expression data by stage in tumor
URL	<a href="http://47.110.225.123/medicine//tumorStage">http://47.110.225.123/medicine//tumorStage</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//tumorStage?tumor_id=2">http://47.110.225.123/medicine//tumorStage?tumor_id=2</a>

## T18

description	get the summary statistic of expression data by in cancer tissue or normal tissue
URL	<a href="http://47.110.225.123/medicine//tumorTissue">http://47.110.225.123/medicine//tumorTissue</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//tumorTissue?tumor_id=2">http://47.110.225.123/medicine//tumorTissue?tumor_id=2</a>

## T19

description	get the summary statistic of expression data by survival condition
URL	<a href="http://47.110.225.123/medicine//tumorSurvivavl">http://47.110.225.123/medicine//tumorSurvivavl</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//tumorSurvivavl?tumor_id=2">http://47.110.225.123/medicine//tumorSurvivavl?tumor_id=2</a>

## T20

description	get the correlation statistics between genes and transcription factors in a certain tumor
URL	<a href="http://47.110.225.123/medicine//tumorTranscriptFactor">http://47.110.225.123/medicine//tumorTranscriptFactor</a>
method	POST
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary <b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient <b>p_value</b> # threshold of p value <b>idlist</b> # List<String>. the list of ids of selected genes. See Supplemenrary. <b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b> . the field by which data are sorted. <b>orderType</b> # <b>asc</b> OR <b>desc</b> .
example	<b>Request URL</b> <a href="http://47.110.225.123/medicine//tumorTranscriptFactor">http://47.110.225.123/medicine//tumorTranscriptFactor</a>  <b>Headers</b> Accept: application/json, text/javascript, */*; q=0.01 Content-Type: application/json Origin: http://bigzju.com Referer: http://bigzju.com/autophagy_archive/  <b>Body</b> { "tumor_id": "2", "correlation_coefficient": "0.5", "p_value": "0.1", "idlist": ["1", "2", "3"], "orderName": "correlation_coefficient", "orderType": "asc" }

## T21

description	get the correlation statistics between genes and microRNAs in a certain tumor
URL	<a href="http://47.110.225.123/medicine///tumorMirrna">http://47.110.225.123/medicine///tumorMirrna</a>
method	POST
parameters	<p><b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary</p> <p><b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient</p> <p><b>p_value</b> # threshold of p value</p> <p><b>idlist</b> # List&lt;String&gt;. the list of ids of selected genes. See Supplemenrary.</p> <p><b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b>. the field by which data are sorted.</p> <p><b>orderType</b> # <b>ass</b> OR <b>desc</b>.</p>
example	<p><b>Request URL</b></p> <p><a href="http://47.110.225.123/medicine//tumorMirrna">http://47.110.225.123/medicine//tumorMirrna</a></p> <p><b>Headers</b></p> <p>Accept: application/json, text/javascript, */*; q=0.01</p> <p>Content-Type: application/json</p> <p>Origin: http://bigzju.com</p> <p>Referer: http://bigzju.com/autophagy_archive/</p> <p><b>Body</b></p> <pre>{   "tumor_id": "2",   "correlation_coefficient": "0.5",   "p_value": "0.1",   "idlist": ["1", "2", "3"],   "orderName": "correlation_coefficient",   "orderType": "asc" }</pre>

## T22

description	get the correlation statistics between genes and microRNAs in a certain tumor
URL	<a href="http://47.110.225.123/medicine//tumorLncRna">http://47.110.225.123/medicine//tumorLncRna</a>
method	POST
parameters	<p><b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary</p> <p><b>correlation_coefficient</b> # threshold of absolute value of correlation coefficient</p> <p><b>p_value</b> # threshold of p value</p> <p><b>idlist</b> # List&lt;String&gt;. the list of ids of selected genes. See Supplemenrary.</p> <p><b>orderName</b> # <b>correlation_coefficient</b> OR <b>p_value</b>. the field by which data are sorted.</p> <p><b>orderType</b> # <b>ass</b> OR <b>desc</b>.</p>

example	<p><b>Request URL</b></p> <p><a href="http://47.110.225.123/medicine/tumorLncRna">http://47.110.225.123/medicine/tumorLncRna</a></p> <p><b>Headers</b></p> <p>Accept: application/json, text/javascript, */*; q=0.01</p> <p>Content-Type: application/json</p> <p>Origin: http://bigzju.com</p> <p>Referer: http://bigzju.com/autophagy_archive/</p> <p><b>Body</b></p> <pre>{"tumor_id":"2","correlation_coefficient":"0.5","p_value":"0.1","idlist":["1","2","3"], "orderName":"correlation_coefficient","orderType":"asc"}</pre>
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## T23

description	get subpopulations selection filter details (applied to TCGA data only)
URL	<a href="http://47.110.225.123/medicine/tumorFilterDetails">http://47.110.225.123/medicine/tumorFilterDetails</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine//tumorFilterDetails?tumor_id=1">http://47.110.225.123/medicine//tumorFilterDetails?tumor_id=1</a>

## T24

description	get the included GEO Series
URL	<a href="http://47.110.225.123/medicine/getGSEPlatform">http://47.110.225.123/medicine/getGSEPlatform</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary
example	<a href="http://47.110.225.123/medicine/getGSEPlatform?tumor_id=1">http://47.110.225.123/medicine/getGSEPlatform?tumor_id=1</a>

## T25

description	get the survival time and event data for one GSE dataset
URL	<a href="http://47.110.225.123/medicine/getTCGA">http://47.110.225.123/medicine/getTCGA</a>
method	GET
parameters	<b>tumor_id</b> # the id of the tumor in Auchive. See Supplementary <b>gene_id</b> # the id of the gene in Auchive. See Supplementary <b>GSE_platform</b> # the name of a GSE dataset, retrieved from <a href="#">/getGSEPlatform</a> , see T24.
example	<a href="http://47.110.225.123/medicine//getTCGA?tumor_id=2&amp;gene_id=17&amp;GSE_platform=GSE10885_GPL1390">http://47.110.225.123/medicine//getTCGA?tumor_id=2&amp;gene_id=17&amp;GSE_platform=GSE10885_GPL1390</a>

## Supplementary

assigned id	Genename	assigned id	Genename	assigned id	Genename	assigned id	Genename
1	ACBD5	41	HIF1A	81	TBC1D5	121	PEX13
2	AKT1S1	42	HSPD1	82	TBK1	122	PSEN1
3	AMBRA1	43	KIF5B	83	TECPR1	123	PTPN2
4	ATG10	44	LAMP1	84	TFEB	124	RETREG1
5	ATG101	45	LAMP2	85	TIMM23	125	SLC33A1
6	ATG12	46	MAP1LC3A	86	TOMM20	126	SMS
7	ATG13	47	MAP1LC3B	87	TP53INP2	127	SMURF1
8	ATG14	48	MAP1LC3B2	88	TSC1	128	SNX14
9	ATG16L1	49	MAP1LC3C	89	TSC2	129	SPG11
10	ATG16L2	50	MFN1	90	ULK1	130	TCIRG1
11	ATG2A	51	MFN2	91	ULK2	131	TECPR2
12	ATG2B	52	MLST8	92	ULK3	132	TMEM230
13	ATG3	53	MTOR	93	USO1	133	VPS13D
14	ATG4A	54	NBR1	94	USP30	134	WAS
15	ATG4B	55	OPTN	95	UVRAG	135	ZFYVE26
16	ATG4C	56	PHB2	96	VAMP8		
17	ATG4D	57	PIK3C3	97	VDAC1		
18	ATG5	58	PIK3R4	98	VMP1		
19	ATG7	59	PINK1	99	WDFY3		
20	ATG9A	60	PLEKHM1	100	WDR45		
21	ATG9B	61	PRKAA1	101	WDR45B		
22	BCL2	62	PRKN	102	WIPI1		
23	BECN1	63	RAB11A	103	WIPI2		
24	BNIP3	64	RAB1A	104	ZFYVE1		
25	BNIP3L	65	RAB24	105	ZKSCAN3		
26	CALCOCO2	66	RAB33B	106	APP		
27	COX4I1	67	RAB5A	107	ATP6AP2		
28	CTSB	68	RAB7A	108	C9orf72		
29	CTSD	69	RB1CC1	109	CLEC16A		
30	CTSL	70	RICTOR	110	CTNS		
31	DEPTOR	71	RPTOR	111	ERBB2		
32	DNM1L	72	RUBCN	112	GBA		
33	DRAM1	73	SH3GLB1	113	GPR65		
34	DRAM2	74	SIRT1	114	GRN		
35	EPG5	75	SNAP29	115	HTT		
36	FIS1	76	SQSTM1	116	IRGM		



37	FUNDC1		77	STX17		117	LRRK2		
38	GABARAP		78	TAX1BP1		118	MECP2		
39	GABARAPL1		79	TBC1D15		119	MEFV		
40	GABARAPL2		80	TBC1D17		120	MTMR3		

assigned id	tumor	full
1	BLCA	Bladder Cancer
2	BRCA	Breast Cancer
3	CESC	Cervical Cancer
4	COAD	Colon Cancer
5	ESCA	Esophageal Cancer
6	GBM	Glioblastoma
7	HNSC	Head and Neck Cancer
8	KICH	Kidney Chromophobe
9	KIRC	Kidney Clear Cell Carcinoma
10	KIRP	Kidney Papillary Cell Carcinoma
11	LAML	Acute Myeloid Leukemia
12	LGG	Lower Grade Glioma
13	LIHC	Liver Cancer
14	LUAD	Lung Adenocarcinoma
15	LUSC	Lung Squamous Cell Carcinoma
16	OV	Ovarian Cancer
17	PAAD	Pancreatic Cancer
18	PCPG	Pheochromocytoma & Paraganglioma
19	PRAD	Prostate Cancer
20	READ	Rectal Cancer
21	SKCM	Melanoma
22	STAD	Stomach Cancer
23	THCA	Thyroid Cancer
24	UCEC	Endometrioid Cancer
25	UCS	Uterine Carcinosarcoma