

RNA-seq原始数据 上传到GEO数据库详细步骤

陈明杰 202411



GEO数据提交流程





提交前的准备

- •1, 创建用户账号 <u>https://www.ncbi.nlm.nih.gov/account/</u>
- •2, FTP上传软件
 - 推荐winscp: <u>https://winscp.net/eng/index.php</u>

•3, 三类文件

- Raw data: gz压缩的FASTQ原始文件
- Metadata:元数据表格(下载并填写)
- Processed data: 表达谱数据(count矩阵, FPKM矩阵或者TPM矩阵等)



注册账号

https://account.ncbi.nlm.nih.gov/signup/

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An official website of the United States government Here's how you know v		
NIH National Library of Medicine National Center for Biotechnology Information		
	Signup	
	using	
	RA Commons	
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	D ORCID	
	Cogin.gov	
	Microsoft	
	NIH Account	•
	more sign up options	

请勿使用163, QQ邮箱, 建议ORCid或者Microsoft 创建新账号, 接收邮件并点击激活链接, 激活





- GEO accession numbers are normally approved within 5 business days after completion of submission. If you do
 not receive an e-mail from us within 5 business days of your submission, please first check your spam or junk email folders because some systems recognize GEO e-mail correspondence as spam, then e-mail us to inquire about
 your submission.
- Your GEO submissions can remain private until a manuscript citing the data is published.
- You can allow reviewers anonymous access to your private records.
- You can update or edit your existing GEO records at any time.
- GEO supports MIAME- and MINSEQE-compliant data submissions.



S NCBI	
Gene Expression On	In GEO Publications FAQ MIAME Email GEO
BI » GEO » Info » Submitting high-throughput sequence data to GEO	Login
Submitting high-throughput sequence data to	GEO
 Submission instructions You The Metadata spreadsheet REQUIRED Processed data files REQUIRED Raw data files REQUIRED Tutorial video Data file compression Single-cell studies 	
 NanoString GeoMx Digital Spatial Profiling (DSP) Organizing your submission 	Step 1. Check that GEO accepts your data type.
 Uploading your submission General information Data provisions, standards and administration 	Step 2. Gather raw files.
Categories of sequence submissions accepted by GEO	Step 3. Gather processed data files.
WARNING: If you are submitting human data, it is your response	Step 4. Download metadata spreadsheet and fill in Metadata tab for your study. Use one spreadsheet per data type (e.g., ChIP-seq, RNA-seq).
Submission instructions	
GEO accepts next generation sequence data that examine quantita other aspects of functional genomics using methods such as RNA- seq, HiC-seq, methyl-seq, etc. We process all components of yo	ative { Step 5. In the metadata spreadsheet file, list the MD5 checksum for all raw and processed data files in the 'MD5
processed data files, and we submit the raw data files to the Seque	Step 6. Create single folder on your computer that contains all raw and processed data files for your experiment. If you have multiple data types, please use one folder per experiment.
	Step 7. Transfer your data to GEO by FTP using these instructions. ftp账号密码、路径等信.
	Step 8. After FTP transfer has completed, submit metadata file(s) on the Submit to GEO page.



More information on required components:

Metadata spreadsheet

Download metadata spreadsheet 元数据表格(用前下载,保持最新)

Metadata refers to descriptive information about the overall study, individual samples, all protocols, and references to processed and raw data file names. Information is supplied by completing all fields of a metadata template spreadsheet. Guidelines on the content of each field are provided within the spreadsheet.

Processed data files

GEO requires that submitters deposit the processed data that support the findings of their study. The processed data should have a quantitative component, such as gene abundances or other count data. Please do not submit alignment files (e.g., BAM, SAM, BED) as processed data, as these are considered intermediary files and do not include a quantitative component. When standard alignments are the only processed data available, please write to us to inquire about whether your data are suitable for submission to GEO.

Processed data format and content will depend on the data type: RNA-seq processed data can include raw and/or normalized counts (FPKM, TPM, etc) of sequencing reads for the features of interest (protein-coding genes, IncRNA, miRNA, circRNA, etc).

ChIP-Seq and ATAC-seq processed data can include peak files with quantitative data, tag density files, etc. Common formats include WIG, bigWig, bedGraph. Please leave files in native format and do not paste peak data into Excel.

Raw data files

Raw data are a required part of GEO submissions. The raw data files should be the original files containing reads and quality scores, as generated by the sequencing instrument. Edited files may not be processed correctly by SRA.

Raw data for high throughput sequencing studies submitted to GEO will be brokered to SRA for you.

Raw data can instead be submitted directly to SRA. After you have received the SRA accessions, please see above for instructions and specific template for this case. Please submit the metadata and processed data to GEO.





1,实验设计,人员信息

8 STUDY														
9 # This section describes the overall study.														
10 # information provided in this section will be displayed in a GE	O Series (GSE record) on public web pages.													
11 *title														
12 *summary (abstract)														
13 *experimental design														
14 contributor														
15 contributor														
16 contributor														
17 contributor						_								
18 supplementary file						-								
19	Legend:													
20	* = required field													
21	** = one of these	fields must be completed.						(
22	Include addition	al columns to thoroughly describe the	samples: strain, genotype, sex,	cultivar,				All processed	file names and raw file	e names must be liste	d here so that the Sample	records can be linked t	o the correct files.	
23	breed, disease ,	etc.						The file name	es must exactly match t	he submitted file nam	nes (include extensions).			
26	Include addition	al columns to describe experimental va	ariables: treatment, time, antib	odv.	Conselete all sel	man in the CALADIEC and	****	Raw file nam	es can only be listed on	nce in the SAMPLES se	ction.			
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27 SAMPLES														
28 # information provided in this section will be displayed in GEO	Samples (GSM records) on public web pages.													
29 # A GEO Sample record will be created from each row in this se	ction.													
30 # Biological replicates of the same sample: if provided, should	d be listed on different rows and titled accordingly (bloi rep 1	biol rep 2, and so on).												
31 # Technical replicates, eg, the same libraries were run in differe	nt lanes of a flow cell or sequenced multiple times: if provid	d, list all raw files in the same row, adding	more "raw file" columns as needed 1	to accommodate all raw file	98.									
32 # All library names, titles and raw files must be unique.					_	_			-		_		_	_
33 *library name *title	*organism **tissue	cell line **cell type	genotype treatment	*molecule	*single or paired-end	*instrument model	description	*processed data file	processed data file	*raw file	raw file	raw file	raw file	
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42 PROTOCOLS														
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45 treatment protocol														
46 *extract protocol														
47 *ilbrary construction protocol														
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50 DAIRED END EXDERIMENTS														
60 # if "naired-end" experiments are included, list the files for each	ch paired-end run in a row. Each row will become one sequen	ling run on a GEO sample (GSM record)												
61 # Sinole-cell data; if applicable, list index files //1 /2 etc.) in "fil	le name 3", "file name 4" columns.	and the original second s												
62 # Please make sure all raw files listed here are also listed in the "	"raw file" columns in the above SAMPLES section.													
63 file name 1 file name	e 2 file name 3 file name 4													
64														
		We usually expect only two files in	each row in the "PAIRED-END E	XPERIMENTS" section.										
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PROCESSED DATA FILES

• 表达谱矩阵(txt或者excel格式都行)

mRNA	Expres	sion	Profili	ing.xlsx

2020/2/20 8:45 Microsoft Excel ... 12,947 KB

	А	В	С	D	Е	F	G
1	Symbol	A1	A2	A3	B1	B2	B3
2	Ndrg4	154	167	164	25	41	13
3	Kcnk6	11	13	15	84	64	18
4	Ppp3r1	22	21	13	1	2	3
5	Nrip1	2	9	5	1	1	5
6	Agtpbp1	3	0	0	2	0	0
7	Parp6	33	33	3	1	1	0
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建议标明注释版本



原始文件及md5值

gz压缩的FASTQ文件

A_R1.fastq.gz	2018/9/11 6:54	WinRAR 压缩文	3,333,257
A_R2.fastq.gz	2018/9/11 6:58	WinRAR 压缩文	3,880,918
B_R1.fastq.gz	2018/9/11 7:02	WinRAR 压缩文	3,432,598
B_R2.fastq.gz	2018/9/11 7:07	WinRAR 压缩文	4,080,836
E_R1.fastq.gz	2018/9/11 7:11	WinRAR 压缩文	3,256,546
E_R2.fastq.gz	2018/9/11 7:14	WinRAR 压缩文	3,897,603
D_R1.fastq.gz	2018/9/11 7:18	WinRAR 压缩文	3,301,864
D_R2.fastq.gz	2018/9/11 7:22	WinRAR 压缩文	3,924,098
E_R1.fastq.gz	2018/9/11 7:25	WinRAR 压缩文	3,344,490
E_R2.fastq.gz	2018/9/11 7:29	WinRAR 压缩文	4,004,335
F_R1.fastq.gz	2018/9/11 7:32	WinRAR 压缩文	3,478,879
F_R2.fastq.gz	2018/9/11 7:36	WinRAR 压缩文	4,154,313

校验文件正确性	seqkit stats -a *.gz	_
校验文件完整性	Win10系统: Certutil -hashfile sample.fastq.gz md5 Linux系统: md5sum sample.fastq.gz Mac系统: md5 sample.fastq.gz	对 暗 号

https://mp.weixin.qq.com/s/teEbS3Nbcd4Y-XDQFHgTRw



用户信息表 (GEO页面上的信息)

My GEO Profile

Investigator

Use this section to provide details about the primary investigator. This information will be displayed on GEO records.

First name*

Jimmy Middle name

last	name*	

cabe manne
Chen

You may choose not to display your email or phone on GEO records by unchecking the corresponding checkbox.

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ding@bioinformatics.com.cn

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☑ Phone

13917006049 Show phone

Organization name* Shanghai Newcore Biotechi	nol
Department	
Lab	
Street address*	54
City*	J4
shanghai State/province	

ZIP/Postal code*	
200000	
Country*	
China	•

Submitter (Account manager)

If the person responsible for submitting the data to GEO is different from the Investigator, use this section to provide alternative contact information. This situation typically arises when the submitter is, e.g., microarray facility personnel, but the contact details to display with the data are that of the principal investigator.

Both the Investigator and the Submitter will receive e-mail correspondence from GEO.

Name	
jimmy2	
E-mail(s)	
ding2@bioinformatics.com.cn	
	1.
Phone	

Preview how contact information will be displayed on GEO records. Edits to contact information will be applied immediately to all existing GEO records submitted under that account.

Preview Save

New submission

此信息在页面上实时更新



S NCBI	Gene El	xpression Omnibus
		GEO Publications EAO MIAME Email GEO
		GEO Fublications TAQ MIAME Enfance
NCBI » GEO » INTO » G	EO FIIe Transfer Protocol (FTP)	User: User
GEO File Tra	nsfer Protocol (FTP)	
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Step 1. Your per	sonalized upload space is: uploads/x	上传路径
Select data typ High-through Microarray and 	•: 数据类型 Iput sequencing nd other (NanoString, RT-PCR, etc.)	
Step 2. Transfer instructions below Transfer Files	r all your raw and processed data files w. Do not upload the metadata file b 上传ftp队户信	s to your personalized upload space according to FTP upload by FTP.
Step 3. After F Metadata page. Upload metada	TP transfer of raw and processed data 	files is complete, upload Excel metadata file on the Submit

e. For LINUX/UNIX users, we recommend transferring files with 'ncftp' or 'lftp', but you can also use 'ftp', 'sftp', or 'ncftpput'. Please see below for detailed examples.



f. Our FTP server credentials are:

host address	ftp-private.ncbi.nlm.nih.gov	
username	geoftp	
password		

Do not share these log-in credentials. Do not include these log-in credentials on a public page. These credentials are changed regularly, as per our security policies.

g. After connecting, you must navigate to your personalized upload space:

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右侧点鼠标右键新建一个文件夹,例如raw_data 双击进去raw_data,然后左侧点鼠标右键上传 速度:每个线程越1.5G/h



通知GEO

Submit to GEO



You are logged in under the **second second** account. Messages from GEO regarding your submission will be sent to the following email address(es): **ding@bioinformatics.com.cn**, **congyangzunygenuoos.com**. If necessary, visit your account to edit your contact information. See submitter accounts for more details.

Use this page to upload Excel metadata file for a new sequence submission. Instructions with metadata template file for submitting sequence submissions to GEO are available here. This page can accept only a single Excel metadata file at a time. If you have multiple Excel metadata files to upload, submit the second file after the first file has been successfully loaded, and so on.

Select upload subfolder

Choose the subfolder that contains the raw and processed data files listed in the metadata file that you will upload below.

rawdata

Excel metadata file to upload

选择文件 seq_template.xlsx

Submission release date (YYYY-MM-DD) (more information about release dates)



后续可以通过邮件让工作人员帮助修改

Comment to GEO staff (optional)



Submit



GEO回复的邮件

S NCBI	My NCBI Sign Out
GEO Home Documentation 💌 Query & Browse 💌 Email GEO	My GEO Submissions
ubmit to GEO	GEO submission summary 📕 🏱 🛇 🖶
You are logged in under the home structure general account. Messages from GEO regarding your submission will be sent to the following email address(es): ding@bioinformatics.com.cn , home structure . If necessary, visit your account to edit your contact information. See submitter accounts for more details.	发件人: geo <geo@ncbi.nlm.nih.gov> 收件人: 金属的 and and and and and and and and and and</geo@ncbi.nlm.nih.gov>
Submission Summary Your metadata file has been successfully uploaded. Thank you for using the GEO Submission form.	[sent to: "sengyangwanyi@owilsihaams" "ding@bioinformatics.com.cn"]
Transferred files have been placed into the processing queue and will be reviewed within 5 business days. Expect to receiv curators with your GEO accession numbers, or questions about your submission. We can be contacted at geo@ncbi.nlm.ni from us within the allotted time, or if you require additional assistance.	an email from GEO Your metadata file has been successfully uploaded. Thank you for using the GEO Submission form. gov if you do not hear
Incomplete or incorrectly formatted submissions cannot be processed. A complete submission consists of:	Transferred files have been placed into the processing queue and will be reviewed within 5 business days. Expect to receive an emai accession numbers, or questions about your submission. We can be contacted at geo@ncbi.nlm.nih.gov if you do not hear from us withi
1. Uploaded metadata file (Thank you!) 2. Raw data 3. Processed data	additional assistance.
Please be aware that we do not have the resources to store files for incomplete submissions. If a submission has r within two weeks, files will be removed from our servers.	t been completed Incomplete or incorrectly formatted submissions cannot be processed. A complete submission consists of:
Metadata file name seg template xisx	1. Uploaded metadata file (Thank you!)
User ID Public release date 2028-09-01	2. Raw data 3. Processed data
Upload space subfolder uploads	Please be aware that we do not have the resources to store files for incomplete submissions. If a submission has not been completed removed from our servers.

Upload another metadata file





GEO审核 (一般5个工作日)

[geo] Your GEO Submission (Commence of Commence of Com

发件人: (GEO - Katherine H. Phillippy<geo@ncbi.nlm.nih.gov>) (由 geort-bounces@ncbi.nlm.nih.gov 代发)

收件人: + 我<ding@bioinformatics.com.cn>

时间: 2024年09月30日 01:36 (星期一)

◆ 邮件已被回复 查看详情

----- MESSAGE BODY. YOU MAY CHANGE IT OR ADD COMMENTS ABOVE ------

Dear Submitter(s),

Thank you for your recent submission to the GEO repository.

However, the following files are corrupt:

rawdata ______1.fq.gz unpigz: skipping: /panfs/traces01.be-md.ncbi.nlm.nih.gov/aspera/geo/v corrupted -- crc32 mismatch

rawdata/onamo_e.fq.gz unpigz: skipping: /panfs/traces01.be-md.ncbi.nlm.nih.gov/aspera/geo/v corrupted -- crc32 mismatch unpigz: abort: internal threads error

GEO computed: a04bc6f0267b7373e83b5a98daadbef5 meta sum: f6e9bc2bd739917af2445912af647688



Thank you for the files. The records have been assigned GEO accession numbers as detailed below.

The records are scheduled to be publicly available on:

Sep 01, 2028

To change this release date, or to make other changes, please see: https://www.ncbi.nlm.nih.gov/geo/info/update.html

*** It is your responsibility to keep track of the release date and to change it, when necessary change the release date of your private records are provided at https://www.ncbi.nlm.nih.gov/geo

*** If GEO accession numbers are quoted in any publicly available manuscript (including journal records must be released for public access, regardless of the scheduled release date (https://www.access.com/acce

You can assist in keeping GEO up-to-date by informing us when any of your GEO accession numbers PubMed links and release data that is still private.

* You may view your GSE278 study at: https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE278





Reviewer token

S NCBI	Gene Expression Omnibus
HOME SEARCH SITE N	GEO Publications FAQ MIAME Email GEO
NCBI > GEO > Acce	Ession Display 2 Contact: Contact: My submissions 2 Sign Out 2
Scope. Seir V	Format: HTML V Amount: Quick V GEO accession: GSE278398
Series GSE2783	898 UPDATE Reviewer access
Status	Private until Sep 01, 2028
Title	AMPK related of circRNA expression in C57 male mice myocardium
Organism	Mus musculus
Experiment type	Non-coding RNA profiling by high throughput sequencing
cumury	circular RNA (circRNA) that was differentially expressed in the mouse myocardial ischaemia-reperfusion injury (MIRI) model, and map the AMPK- related circRNA network to provide novel insights for the prevention and treatment of MIRI.
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Series GSE27839	08 UPDATE Reviewer access
Status	Private until Sep 01, 2028
Title	AMPK related of circRNA expression in C57 male mice myocardium
Organism	Mus musculus



总结

- •文件不完整会email告知,重新传,直到全部OK
- 全部传好后分配GSE123456编号
- GEO页面信息在user account中修改(实时更新)
- •最长5年不公开数据
- Reviewer, 给个token
- •时差、周末不上班
- 上传后会移到SRA中,抹去read name信息
- GEO不检查内容, 仅检查形式



其他上传数据库

GSA国家生物信息中心

GSA e.g., CRA000112; CRX000656; SRX10535559; human 教報空 教部效 在自检索 教報校社 香助和支持- MARKAY 在自检索 基础校社 香助和支持- Market Agge and	rs Color
数据控文 数据操文 数据统计 市助和交持+ MOSEA Moree Organogenesis Spatiotemporal Transcription: Allas (MOSTA), provides the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions in each entry or supprise along the spatial maps along the open expression, and equiptions concerning mammalian development. Agg My H/I/F Mose Organogenesis Spatial expression, and equiptions concerning mammalian development. Mose Organogenesis Spatial expression, and equiptions concerning mammalian development. Importance in the spatial expression and equiptions concerning mammalian development. Mose Organogenesis Spatial expression, and equiptions in each entry or supprise along the spatial expression, and equiptions concerning mammalian development. Importance in the spatial expression and equiptions concerning mammalian development. Mose Organogenesis Spatial expression and equiption of tempstanding questions concerning mammalian development. Importance in the spatial expression and equiption of tempstanding questions concerning mammalian development. Mose Organogenesis Spatial expression and equiption of tempstanding questions concerning mammalian development. Importance in the spatial temps expresis and equiption the spatial temps expre	
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原始数据归档库 原始数据归档库(Genome Sequence Archive)是提学原始数据汇交、存读、管理与共享系统,是国内首个被国际 人可的组学数据发布平台,目前已整合INSDC组学数据,提供统一检索、数据下载及数据导向服务。 接文 下载 浏览 文档	11
原始数据归档库(Genome Sequence Archive)是组学原始数据汇交、存储、管理与共享系统,是国内首个被国际 认可的组学数据发布平台,目前已整合INSDC组学数据,提供统一检索、数据下载及数据导向服务。 現文 下载 浏览 文档	Re R
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CNSA Data Resources Sample Resources Scientif	tific Database
Text Statistics A Patential (المعالية المعالية معالية المعالية المعا	us EMBL-EBI
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ArrayExpress - Functional Genomics Data

The functional genomics data collection (ArrayExpress), stores data from high-throughput functional genomics experiments, and provides data for reuse to the research community. In line with community guidelines, a study typically contains metadata such as detailed sample annotations, protocols, processed data and raw data. Raw sequence reads from highthroughput sequencing studies are brokered to the European Nucleotide Archive (ENA), and links are provided to download the sequence reads from ENA. Data can be submitted to the ArrayExpress collection through its dedicated submission tool, Annotare. For more information about submissions, see our submission guide.

