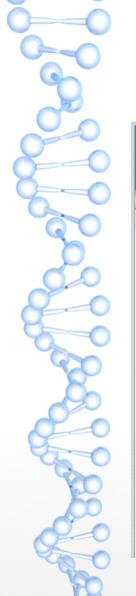


GEO Deposit





Club Bioinfo 07 Novembre 2019 Jean-Baptiste Claude



GEO Deposit



GEO Publications

FAO

MIAME

Email GEO

NCBI » GEO » Info » Submitting data

Login

Submitting data

GEO accepts many categories of high-throughput functional genomic data, including all array-based applications and some high-throughput sequencing data.

We aim to make data deposit procedures as straightforward as possible and will provide as much assistance as you require to get your data submitted to GEO. If you have problems or questions about submission, e-mail us with a brief description of the type of data you are trying to submit, and one of our curators will quickly get back to you.

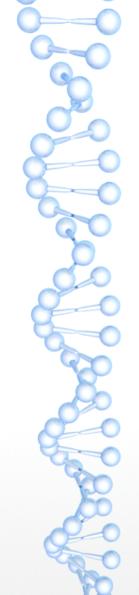
Data types

Submit microarray

Submit high-throughput sequencing

Submit other (includes NanoString, RT-PCR, traditional SAGE)

WARNING: If you are submitting human data, it is your responsibility to comply with Human Subject Guidelines.



Requirements

- You must have a MyNCBI account
- GEO requires raw data, processed data and metadata.
- Submit with GEOarchive spreadsheet is strongly recommended

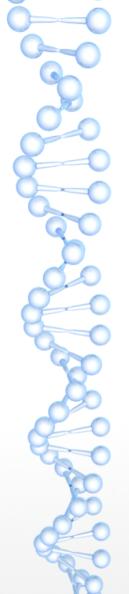
NCBI Account Settings

Email

jean-baptiste.claude@ens-lyon.fr (confirmed)

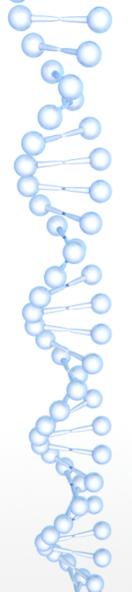
This email is used for delivery of saved searches and recovery of password for your native NCBI account.

Change



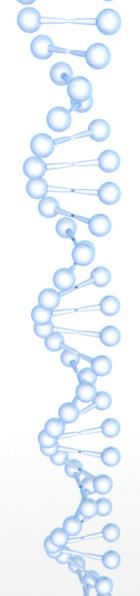
Accessibility

- 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.



How do I create a GEO account?

- You will need both a My NCBI account and an accompanying My GEO Profile to submit data.
- Submitters are asked to complete a My GEO Profile form that provides the contact information to be used by GEO curators
- The My NCBI account can be used to submit additional data in the future



NGS deposit

Submitting high-throughput sequence data to GEO

- Assembling your submission
 - Metadata spreadsheet
 - Processed data files
 - Raw data files
- Uploading your submission
- General Information
 - Data provisions, standards and administration
 - Categories of sequence submissions accepted by GEO



Submission

Uploading your submission

There are two steps for submission:

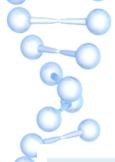
1. Transfer all your files to the GEO FTP server

Transfer Files

2. After the FTP transfer is complete, notify GEO using the Submit to GEO web form

Notify GEO





FTP

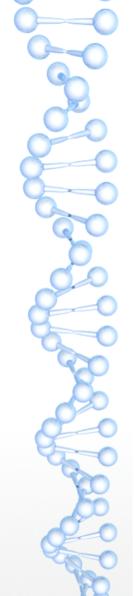
GEO File Transfer Protocol (FTP)

Step 1. Your personalized upload space is: uploads/claude_jb_eBy1K8Wo

Step 2. Transfer files to your personalized upload space according to FTP upload instructions below

Transfer Files





Step 2. Transfer files to your personalized upload space according to FTP upload instructions below

Transfer Files

- a. Create a new folder on your computer that has a meaningful name (e.g. geo_submission_march13) and place all of your submission files into the folder. If your submission is comprised of several datasets (e.g. ChIPseq, RNAseq, RRBS, etc) it is OK to organize the files for each data type into its own subfolder (e.g. geo_submission_mar13/ChIPseq).
- b. Confirm the size of your folder and contact us **if your submission exceeds 1 terabyte in size**. Please do not proceed with an upload larger than 1 terabyte until you hear back from GEO.
- c. For PC/Mac OS users we recommend transferring files with the free third-party software, FileZilla Client. Please see below for detailed examples and other options.
- d. 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.
- e. Our FTP server credentials are:

host address	ftp-private.ncbi.nlm.nih.gov
username	geoftp
password	rebUzyi1

- f. After connecting, you must navigate to your personalized upload space: uploads/claude jb eBy1K8Wo
- g. After navigating to your personalized upload space, transfer the meaningfully-named submission folder from your computer to our server.
- h. Notify us (Step 3) and list the meaningfully-named folder in your notification. Do not proceed to Step 3 (below) until your transfer has completed.

Submit to GEO

You are logged in under the **claude_jb** account. Messages from GEO regarding your submission will be sent to the following email address(es): **jean-baptiste.claude@ens-lyon.fr**. If necessary, visit your account to edit your contact information. See submitter accounts for more details.

Use this form to either:

No, I need help

O Notify GEO about your FTP file transfer (suitable for high-throughput sequencing or large microarray submissions and updates)

Is your FTP file transfer to GEO complete? Yes, all my data have finished transferring
Do not proceed with this form until all components of your submission are fully transferred and ready for us to process.
Name(s) of the directory or files deposited
Submission kind
O new
update or revision
When this submission should be released to the public (more information about release dates)
Release immediately following curation
Release on specified date (up to 3 years from today)
Comment to GEO staff (optional) Submit



seq_template_v2.1.xls

- # High-throughput sequencing metadata template (version 2.1).
- # All fields in this template must be completed.
- # Templates containing example data are found in the METADATA EXAMPLES spreadsheet tabs at the foot of this page.
- # Field names (in blue on this page) should not be edited. Hover over cells containing field names to view field content guidelin
- # Human data. If there are patient privacy concerns regarding making data fully public through GEO, please submit to NCBI's db

SERIES	
#This section describes the overall experim	nent.
	•
title	downregulation of DDX5 and DDX17
summary	RNAseg: MCF-7 cells were transfected with siRNA targeting both DDX5 and DDX17
overall design	siRNA control (2 replicates) + siRNA DDX5/DDX17 (2 replicates)
contributor	Cyril,Bourgeois
contributor	Didier, Auboeuf
contributor	Clara, Benoit-Pilven
contributor	Sophie, Terrone
supplementary file	
SRA_center_name_code	[optional]

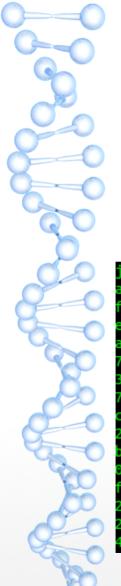




SAMPLES	1			1					Ţ
# This section lists and describes each of	the biological San	nples under inve	stgation, as well	as any protocols	that are spe	cific to individ	dual Samples.		
# Additional "processed data file" or "raw fi									
Sample name	title	source name	organism	characteristics	molecule	description	processed data	raw file	raw file
Sample 1	siCTL_N1	cells	Homo sapiens	MCF7	total RNA			siCTL_N1_GGCTAC_R1.fastq.gz	siCTL_N1_GGCTAC_R2.fastq.gz
Sample 2	siCTL_N2	cells	Homo sapiens	MCF7	total RNA			siCTL_N2_CTTGTA_R1.fastq.gz	siCTL_N2_CTTGTA_R2.fastq.gz
Sample 3	siDDX5_17_N1	cells	Homo sapiens	MCF7	total RNA			siDDX5_17_N1_AGTCAA_R1.fast	siDDX5_17_N1_AGTCAA_R2.fastq.gz
Sample 4	siDDX5_17_N2	cells	Homo sapiens	MCF7	total RNA			siDDX5_17_N2_AGTTCC_R1.fasto	siDDX5_17_N2_AGTTCC_R2.fastq.gz
PROTOCOLS									
# Any of the protocols below which are app	licable to only a s	subset of Sampl	es should be incl	uded as additiona	l columns of	the SAMPLE	S section instea	d.	
growth protocol	•								
treatment protocol	MCF-7 cells we	re transfected w	ith <u>siRNA</u> targetir	ng both DDX5 and	DDX17 RN	A helicases			
extract protocol	total RNA were	extracted as de	scribed previously	(Dardenne Cell I	Rep 2014)				
library construction protocol	RNA libraries we	ere prepared for	sequencing using	standard Illumin	a protocols.	rRNA were de	epleted with the "	TruSeg Stranded Total RNA with Ri	o⊡Zero Gold" kit.
library strategy	RNA-Seq 2x125	ibp							
DATA PROCESSING PIPELINE									
# Data processing steps include base-calling	ng, alignment, filte	ering, peak-calli	ng, generation of	normalized abund	ance measi	irements etc.			
# For each step provide a description, as w									
# Include additional steps, as necessary.									
data processing step	Data generated	with an Illumina	HiSeg 2500 platf	orm					
data processing step	Sequenced read	ls were trimmed	for adaptor sequ	ence with cutada	t and low q	uality bases (Q<20) with prins	eq	
data processing step	Mapping and co	unt with Tophat							
data processing step	Splicing analys	is with FARLINE	pipeline (publica	tion in progress)					
data processing step	•								
genome build	hg18								
processed data files format and content	excel file contai	ning splicing ev	ents differentially	observed in DDX	5-17 Vs con	trol (events :	acceptor, donor,	mutually exclusive, multi exon skip	ping)



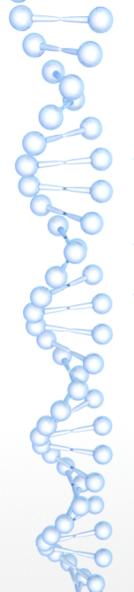
# For each file listed in the "processed data	a file" columns of	the SAMPLES section, provide additional	l information belo	w.		
PROCESSED DATA FILES						
file name	file type	file checksum				
analyse_stat_siDDX5_17-siCTL_recap.xls	xls	c21f2fed706da474e31ca18eb63fbf97				
# For each file listed in the "raw file" colum	ns of the SAMPL	 ES section, provide additional information	n below.			
RAW FILES						
file name	file type	file checksum	instrument mo	read length	single or	aired-end
siCTL_N1_GGCTAC_R1.fastq.gz	fastq	5936438dc15c3418b889c7a56a738303	Illumina HiSeg	125	paired-end	
siCTL_N1_GGCTAC_R2.fastq.gz	fastq	e64aefff34eb6cf8e329226bc422ee00	Illumina HiSeg	125	paired-end	
siCTL_N2_CTTGTA_R1.fastq.gz	fastq	8ccc9415642d2a796d6ed1df506d7738	Illumina HiSeg	125	paired-end	
siCTL_N2_CTTGTA_R2.fastq.gz	fastq	761e2f8faf96d0f06e1dd782e90155af	Illumina HiSeg	125	paired-end	
siDDX5_17_N1_AGTCAA_R1.fastq.gz	fastq	63863d50b0b3e8678a0ba8fd3d1a8b26	Illumina HiSeg	125	paired-end	
siDDX5_17_N1_AGTCAA_R2.fastq.gz	fastq	6eafb63a1a9c34c17f5c6cfc5a3a7e11	Illumina HiSeg	125	paired-end	
siDDX5_17_N2_AGTTCC_R1.fastq.gz	fastq	f5e06e037e03935e9306efe9f78411ef	Illumina HiSeg	125	paired-end	
siDDX5_17_N2_AGTTCC_R2.fastq.gz	fastg	d6ace64f9e5a3a507d79da66d8f752d9	Illumina HiSeg	125	paired-end	
# For paired-end experiments, list the 2 ass	sociated raw files.	and provide average insert size and star	ndard deviation, if	known. For SOI	iD experime	nts. list the
PAIRED-END EXPERIMENTS			,			,
file name 1	file name 2	average insert size	standard deviat	tion		
siCTL_N1_GGCTAC_R1.fastq.gz	siCTL_N1_GGC	TAC_R2.fastq.gz				
siCTL_N2_CTTGTA_R1.fastq.gz	,,,,,,	GTA_R2.fastq.gz				
siDDX5_17_N1_AGTCAA_R1.fastq.gz	,	AGTCAA_R2.fastq.gz				
siDDX5_17_N2_AGTTCC_R1.fastq.gz		AGTTCC_R2.fastq.gz				



create checksum

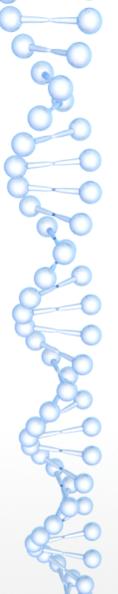
- cd [yourDirectory]
- md5sum * > md5sum.csv

```
eanbaptiste@Schrodinger:~/Desktop/Club bioinfo GEO deposit 20191109$ md5sum *
a74be9479873edfd81466714c417ed48
                                 1200px-US-NLM-NCBI-Logo.svq.pnq
                                  20170125 Depot siCTL siDDX5-27 seq template v2.1.xls
61bc77f055f091544702037f1041e94
                                  Club bioinfo GEO 20191109.odp
638332d686cd330fa31f6e3a7c7c70e
a848f76948b9b3eba61e15955e735f29
                                 geo main.gif
7b0090a6644518c4867368d0fb2c414
                                  Screenshot from 2019-11-07 11-30-05.png
8e42553e35a26fbac210065eb03064ec
                                  Screenshot from 2019-11-07 12-13-47.png
79b45674f7e0bb6389af3cbd99ffd425
                                  Screenshot from 2019-11-07 12-17-03.png
:171dc1f2c85a8c99edce7daf8bfaebb
                                 Screenshot from 2019-11-07 12-20-02.png
5c8ec3e6c2d0d6006342fabab54ad38
                                  Screenshot from 2019-11-07 12-24-09.png
fe025b4fb5d89f4c942998715f48e28
                                  Screenshot from 2019-11-07 12-25-04.png
0194392ff09b919356c1690ce9741179
                                  Screenshot from 2019-11-07 12-26-29.png
                                 Screenshot from 2019-11-07 12-28-58.png
d5b563c820e41ee91034c8c07287f1a
255aabf6d0d6448c3a94350f7ff4ef86
                                  Screenshot from 2019-11-07 12-32-02.png
29a6d1159e0f624bfea51db44a374be8
                                  Screenshot from 2019-11-07 12-33-47.png
4241944e79c083b00bc55e337b24babd
                                 seq template v2.1.xls
```



Data File Compression

- gzip and bzip2 (i.e. files ending with a .gz or .bz2 extension).
- Never compress binary files (e.g., BAM, bigWig, bigBed)
- DO NOT upload ZIP archives (files with a .zip extension).



SRA

• (...) We process all components of your study, including the samples, project description, processed data files, and we submit the raw data files to the Sequence Read Archive (SRA) on your behalf.