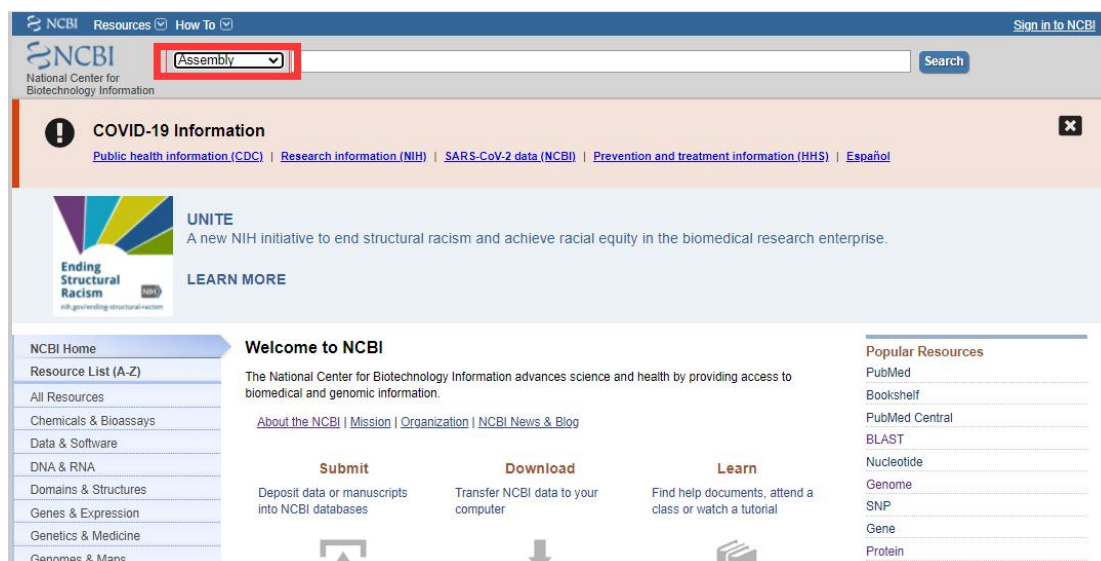


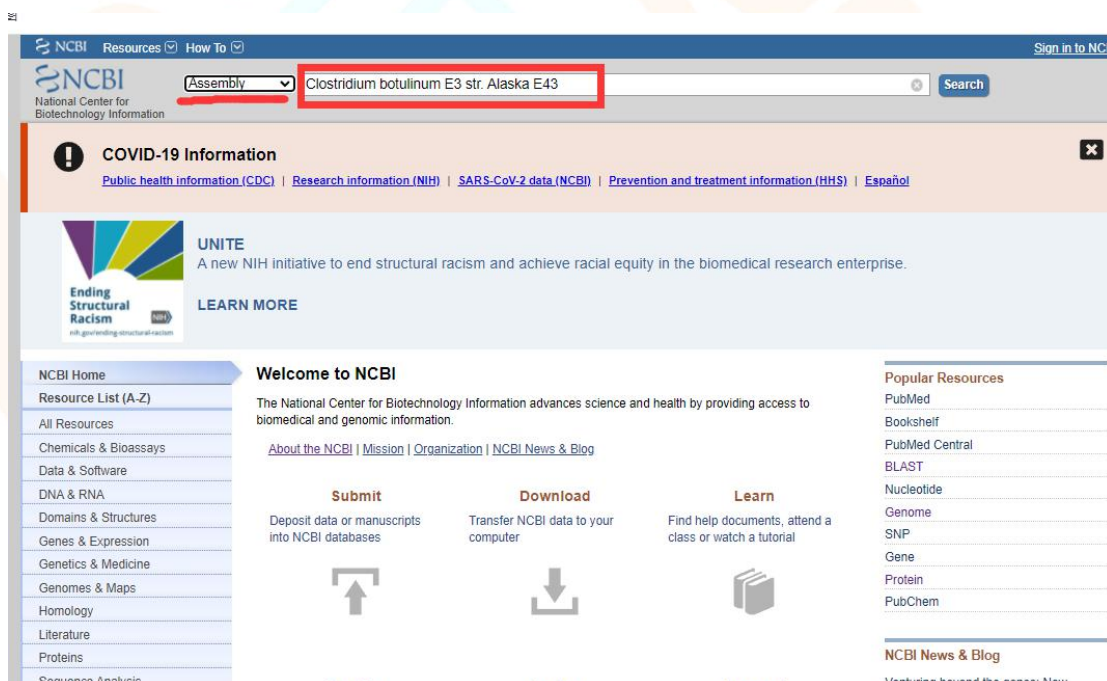
1、进入 NCBI

进入 NCBI (<https://www.ncbi.nlm.nih.gov/>)，选择 Assembly。



2、搜索基因组

输入基因组名字（如填入 Clostridium botulinum E3 str. Alaska E43）或者 id 搜索基因组。



3、找到基因组并获取链接

搜索基因组后检查结果是否准确。核对结果无误后在右边找到对应的 RefSeq 数据库链接（也有 Genbank 的链接，建议尽量用 RefSeq）。

NCBI Resources How To Sign in to NCBI

Assembly Assembly Advanced Browse by organism Search Help

COVID-19 Information
[Public health information \(CDC\)](#) | [Research information \(NIH\)](#) | [SARS-CoV-2 data \(NCBI\)](#) | [Prevention and treatment information \(HHS\)](#) | [Español](#)

Full Report Send to Download Assembly

ASM2028v1
 Organism name: **Clostridium botulinum E3 str. Alaska E43 (firmicutes)**
 Taxonomy check: [Inconclusive](#)
 Intraspecific name: Strain: Alaska E43
 BioSample: [SAMN02603537](#)
 BioProject: [PRJNA28855](#)
 Submitter: Los Alamos National Laboratory
 Date: 2008/05/16
 Assembly type: na
 Assembly level: Complete Genome
 Genome representation: full
 GenBank assembly accession: GCA_000020285.1 (latest)
 RefSeq assembly accession: GCF_000020285.1 (latest)
 RefSeq assembly and GenBank assembly identical: yes
 IDs: 41328 [UID] 21088 [GenBank] 41328 [RefSeq]
[History \(Show revision history\)](#)

Comment
 The authors wish to acknowledge the Intelligence Technology Innovation Center for funding the sequencing and the NIH/NIAD for funding the annotation at the Pathema Bioinformatics Resource Center.
 For more information about this strain contact Theresa Smith, Integrated Toxicology, United States ... [more](#)

[Genome Annotation Data](#)

Global statistics

| | |
|--|-----------|
| Total sequence length | 3,659,644 |
| Total ungapped length | 3,659,644 |
| Total number of chromosomes and plasmids | 1 |

Access the data
 Full sequence report
 Statistics report
FTP directory for RefSeq assembly
FTP directory for GenBank assembly
 NCBI Datasets

Assembly Information
 Assembly Help
 Assembly Basics
 NCBI Assembly Data Model

Related Information
 BioProject
 BioSample
 Genome
 Nucleotide INSDC
 Nucleotide RefSeq
 Taxonomy

4、打开链接下载基因组和注释信息等

打开链接，浏览器下面就有链接，提供给我们就可以了。

https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/020/285/GCF_000020285.1_ASM2028v1/

Index of /genomes/all/GCF/000/020/285/GCF_000020285.1_ASM2028v1

| Name | Last modified | Size |
|---|------------------|------|
| Parent Directory | | - |
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| GCF_000020285.1_ASM2028v1_translated_cds.faa.gz | 2021-09-11 19:47 | 737K |
| README.txt | 2020-09-02 16:26 | 43K |
| annotation_hashes.txt | 2021-09-11 19:47 | 410 |
| assembly_status.txt | 2022-01-22 00:01 | 14 |
| md5checksums.txt | 2021-09-11 19:47 | 1.1K |

[Vulnerability Disclosure](#)