How To: Find the latest Salmonella in the Isolates Browser

NCBI Pathogen Detection   https://www.ncbi.nlm.nih.gov/pathogens

NIH U.S. National Library of Medicine
National Center for Biotechnology Information

How do I find the latest Salmonella in the Isolates Browser?

- Method 1:
  - Select "New Isolates" for *Salmonella enterica* on the Pathogen Detection home page
  - Download table

- Method 2:
  - Use the "new:1" syntax in the [Isolates Browser](#) search window
  - Use filters or search to select Organism Group "Salmonella enterica "
  - Download table

Pathogen Detection BETA

ℹ️ To assist the National Database of Antibiotic Resistant Organisms (NDARO), NCBI Pathogen Detection identifies the antimicrobial resistance, stress response, and virulence genes found in bacterial genomic sequences. This enables scientists to track the spread of resistance genes and to understand the relationships between antimicrobial resistance and virulence.

NCBI Pathogen Detection integrates bacterial pathogen genomic sequences originating in food, environmental sources, and patients. It quickly clusters and identifies related sequences to uncover potential food contamination sources, helping public health scientists investigate foodborne disease outbreaks.

⚠️ There has been a change to the *Isolation type / epi_type* attribute that affects *min-same/min-diff* computation. Now where an isolate has no information to support the setting *environmental/other* the Browser will no longer default to that value but instead present as *NULL*. This means that the *min-same/min-diff* values for this isolate will present as *n/a*, and other *min-same/min-diff* values for isolates clustered with this isolate may change. Please see the Help text for more details.

Search isolates:

[   ] [**Search**]

Examples:
1. Search for isolates encoding a mobile colistin resistance gene and a KPC beta-lactamase search: AMR_genotypes:mcr* AND AMR_genotypes:blaKPC*
2. Search for Salmonella isolates from the USA geo_loc_name: USA AND taxgroup_name:"Salmonella enterica"

Explore the Data

Species	New Isolates	Total Isolates
Salmonella enterica	208	392,329
E.coli and Shigella	224	197,448

Learn More

About

FAQ

Browser Factsheet

Antimicrobial Resistance Factsheet

Antimicrobial Resistance

Contributors

Help

Data Resources

Isolates Browser

Microbial Browser for Identification of Genetic and Genomic Elements (MicroBIGG-E)

Reference Gene Catalog

NEW Reference HMM Catalog

Isolates with antibiotic resistant phenotypes

Download analysis results (FTP)

Submit

How to submit data

How to submit antibiotic resistance phenotypes

How to submit beta-lactamases

NCBI Submission Portal

1. Click "208" in the New Isolates column

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National Center for Biotechnology Information

pd-help@ncbi.nlm.nih.gov

NCBI

Search

taxgroup_name:"Salmonella enterica" AND new:1

Share Save Sa

Filters

Matched Clusters

#	Organism gr...		Matched isolates	Matched clinical isolates	Matched environmental isolates
1	Salmonella e...		2	2	0
2	Salmonella e...		1	1	0
3	Salmonella enterica	PDS...4.25	126	126	0
4	Salmonella enterica	PDS00000...	1	0	1
5	Salmonella enterica	PDS000012191.1...	12	0	12
6	Salmonella enterica	PDS000001796.19	1	1	0
7	Salmonella enterica	PDS000046794.7	24	24	0

2. Click Download

Matched Isolates

|◀ ◀ Page 1 of 11 ▶ ▶| ⟳ Records per Page 20 ▾ | ▦ Choose columns 📥 Download Show all AMR genotypes ⤢ Expand all Cross-browser selection

#	Strain	AMRFind...	Source type	PD Ref Gen...	Organism Group	Isolation ...	Scientific name	AMR genotyp...	Stress genoty...	Virulence gen...	AMRFinde
1	1469894	3.10.11		2021-08-11.1	Salmonella ente...	clinical	Salmonella ente...	NONE	Complete (3) arsR golS golT	Complete (3) iroB iroC sinH	NUCLEOT
2	1469871	3.10.11		2021-08-11.1	Salmonella ente...	clinical	Salmonella ente...	Complete (4) blaCTX-M-15 catA1 dfrA7 Point (1) gyrA_S83F Show all 5 genes	Complete (5) merC merP merR Show all 5 genes	Complete (3) cdtB iroB iroC Mistranslation (1) sinH	NUCLEOT
3	1469891	3.10.16		2021-08-11.1	Salmonella ente...	clinical	Salmonella ente...	Complete (2) aph(3')-Ia tet(A)	Complete (5) golS golT merC	Complete (3) iroB iroC sinH	COMBINE

Search

taxgroup_name:"Salmonella enterica" AND new:1

Share | Save | Sa...

Filters

Matched Clusters

#	Organism groups	SNP cluster	Matched isolates	Matched clinical isolates	Matched environmental isolates
1	Salmonella enterica	PDS000002867.662	2	2	0
2	Salmonella enterica	PDS000073471.62	1	1	0
3	Salmonella enterica	PDS000027384.25	126	126	0
4	Salmonella enterica	PDS000002469.10	1	0	1
5	Salmonella enterica	PDS000012191.14	12	0	12
6	Salmonella enterica	PDS000001796.19	1	1	0
7	Salmonella enterica		24	24	0

Matched Isolates

Page 1 of 1... | □ Choose columns | 📥 Download | Show all AMR genotypes | ↗ Expand all | Cross-browser selection

3. Click Download to get data in tab-delimited format

Download ✕

Data type: Table ▼

Type: Tab-delimited (.tsv) ▼

...me: isolates.tsv

208 isolate record(s)

Download | Cancel

#	Strain	AM...		Organ...		typ...	Stress genoty...	Virulence gen...	AMRFind...
1	1469894	3.10.11		2021	Salmo		Complete (3) arsR golS golT	Complete (3) iroB iroC sinH	NUCLEOT
2	1469871	3.10.11		2021-08-11.1	Salmo	(4) -M-15	Complete (5) merC merP merR Show all 5 genes	Complete (3) cdtB iroB iroC Mistranslation (1) sinH	NUCLEOT
						83F 5 genes			
3	1469891	3.10.16		2021-08-11.1	Salmonella ente... clinical	Salmonella ente...	Complete (2) aph(3')-Ia tet(A)	Complete (5) golS golT merC	Complete (3) iroB iroC sinH	COMBINE

https://www.ncbi.nlm.nih.gov/pathogens

Pathogen Detection BETA

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Browser Factsheet

Antimicrobial Resistance Factsheet

Antimicrobial Resistance

To assist the National Database of Antibiotic Resistant Organisms (NDARO), NCBI Pathogen Detection identifies the antimicrobial resistance, stress response, and virulence genes found in bacterial genomic sequences. This enables scientists to track the spread of resistance genes and to understand the relationships between antimicrobial resistance and virulence.

Contributors

Help

NCBI Pathogen Detection integrates bacterial pathogen genomic sequences originating in food, environmental sources, and patients. It quickly clusters and identifies related sequences to uncover potential food contamination sources, helping public health scientists investigate foodborne disease outbreaks.

4. Click Isolate Browser

Data Resource

Isolates Browser

There has been a change to the *Isolation type / epi_type* attribute that affects *min-same/min-diff* computation. Now where an isolate has no information to support the setting *environmental/other* the Browser will no longer default to that value but instead present as *NULL*. This means that the *min-same/min-diff* values for this isolate will present as *n/a*, and other *min-same/min-diff* values for isolates clustered with this isolate may change. Please see the Help text for more details.

Microbial Browser for Identification of Genetic and Genomic Elements (MicroBIGG-E)

Reference Gene Catalog

NEW **Reference HMM Catalog**

Feedback

Health > Pathogen Detection > Isolates Browser   Help

5. Use the syntax "new:1" in the search bar

Search
new:1   Share Save Saved Searches Watched Isolates

Filters **1**

Available filters		Search		
Filter		**Organism Group**	**Count**	
☐ Strain		☐ E.coli and Shigella	224	
☐ AMRFinderPlus version		☑ Salmonella enterica	208	
☐ Source type		☐ Pseudomonas aeruginosa	51	
☐ PD Ref Gene Catalog version		☐ Staphylococcus pseudintermedius	37	
☑ Organism Group		☐ Clostridium perfringens	29	
☐ Isolation type		☐ Listeria monocytogenes	18	
☐ Scientific name		☐ Vibrio cholerae		
☐ AMR types core		☐ Enterobacter	14	
☐ Stress g...		☐ Clostridioides difficile	10	
☐ Virulence g...		☐ Citrobacter freundii	9	
☐ AMR...		☐ Campylobacter jejuni	7	
☐ Ho...		☐ Staphylococcus aureus	7	
☐ SN...		☐ Klebsiella oxytoca	6	
☐ Bi...		☐ Vibrio vulnificus	6	
☐ Ru...		☐ Vibrio parahaemolyticus	4	
☐ AS...		Unique values: 26		

6. Click Filters bar to show filters

7. Click Organism Group and Isolation Type to show organism group and isolation type filters

8. Select Salmonella enterica

9. Click Download button

Matched

#	Organism groups	SNP cluster	Matched isolates	Matched clinical isolates	Matched environmental isolates	Total isolates	Minimal min-diff	Minimal min-same	Latest
1	Salmonella enterica	PDS000002867.662	2	2	0	4510	1	0	2021-0
2	Salmonella enterica	PDS000073471.62	1	1	0		1	1	2021-0
3	Salmonella enterica	PDS000027384.25	126	126	0			0	2021-0
4	Salmonella enterica	PDS000002469.10	1	0	1			0	2021-0
5	Salmonella enterica	PDS000012191.14	12	0	12			1	2021-0
6	Salmonella enterica	PDS000001796.19	1	1	0			6	2021-0
7	Salmonella enterica	PDS000046794.7	24	24	0			0	2021-0

Matched Isolates

|◀ ◀ Page 1 of 11 ▶ ▶| 🔄 Records per Page 20 ▾ ⊞ Choose columns ⬇ Download Show all AMR genotypes ↗ Expand all Cross-browser selection   Displaying

#	Strain	AMRFind...	Source type	PD Ref Gen...	Organism Group	Isolation ...	Scientific name	AMR genotyp...	Stress genoty...	Virulence gen...	AMRFinderPlus ...	Host	SNP cluster	BioProject	Run
1	1469894	3.10.11		2021-08-11.1	Salmonella ente...	clinical	Salmonella ente...	NONE	Complete (3) arsR golS	Complete (3) iroB iroC	NUCLEOTIDE	Homo sapie...	PDS000073471.62	PRJNA248792	SRR160771

☐	AMRFinderPlus version		

☑	Salmonella enterica	208
☐	Pseudomonas aeruginosa	51
☐	Staphylococcus pseudintermedius	37
☐	Clostridium perfringens	29
☐	Listeria monocytogenes	18
☐	Vibrio cholerae	16
☐	Enterobacter	14
☐	Clostridioides difficile	10
☐	Citrobacter freundii	9
☐	Campylobacter jejuni	7
☐	Staphylococcus aureus	7
☐	Klebsiella oxytoca	6
☐	Vibrio vulnificus	6
☐	Vibrio parahaemolyticus	4

☐	Source type
☐	PD Ref Gene Catalog version
☑	Organism Group
☐	Isolation type
☐	Scientific name
☐	AMR genotypes core
☐	Stress genotypes
☐	Virulence genotypes
☐	AMRFinderPlus analysis type
☐	Host
☐	SNP cluster
☐	BioProject
☐	Run
☐	AST phenotypes

Total unique values: 26

Matched Clusters

#	Organism groups		Matched isolates	Matched clinical isolates	Matched environmental isolates
1	Salmonella enteric		2	2	0
2	Salmonella enteric		1	1	0
3	Salmonella enterica		126	126	0
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5	Salmonella enterica	PDS000012191.	12	0	12
6	Salmonella enterica	PDS000001796.19	1	1	0
7	Salmonella enterica	PDS000046794.7	24	24	0

10. Click Download

Matched Isolates

|◄ ◄ Page [1] of 11 ► ►| 🔁 Records per Page [20 ▼] 📋 Choose columns ⬇ Download   Show all AMR genotypes ⤢ Expand all   [Cross-browser selection]

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1	1469894	3.10.11		2021-08-11.1	Salmonella ente...	clinical	Salmonella ente...	NONE	Complete (3) arsR golS	Complete (3) iroB iroC	NUCLEOT

11. Click Download to get data in tab-delimited format

More information

- For full help documentation of the Reference Gene Catalog see:
  https://www.ncbi.nlm.nih.gov/pathogens/pathogens_help/#reference-gene-catalog

- For details about filters see:
  https://www.ncbi.nlm.nih.gov/pathogens/pathogens_help/#refgene-filters

- For details about the table downloads see:
  https://www.ncbi.nlm.nih.gov/pathogens/pathogens_help/#refgene-access-download

Questions and further help: email pd-help@ncbi.nlm.nih.gov