How To: Find an isolate you submitted

NCBI Pathogen Detection

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



At a glance

- Use the Pathogen Isolates Browser to locate your isolate https://www.ncbi.nlm.nih.gov/pathogens
- Check the exceptions report
- Check the Submission Portal
- Ask for help

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

Health > Pathogen Detection

Pathogen Detection **BETA**



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 supposetting *environmental/other* the Browser will no longer default to that value but in present as *NULL*. This means that the *min-same/min-diff* values for this isolate will as *n/a*, and other *min-same/min-diff* values for isolates clustered with this isolate change. Please see the <u>Help</u> text for more details.

1. Search the Isolates Browser

Search isolates:

Search

Examples

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

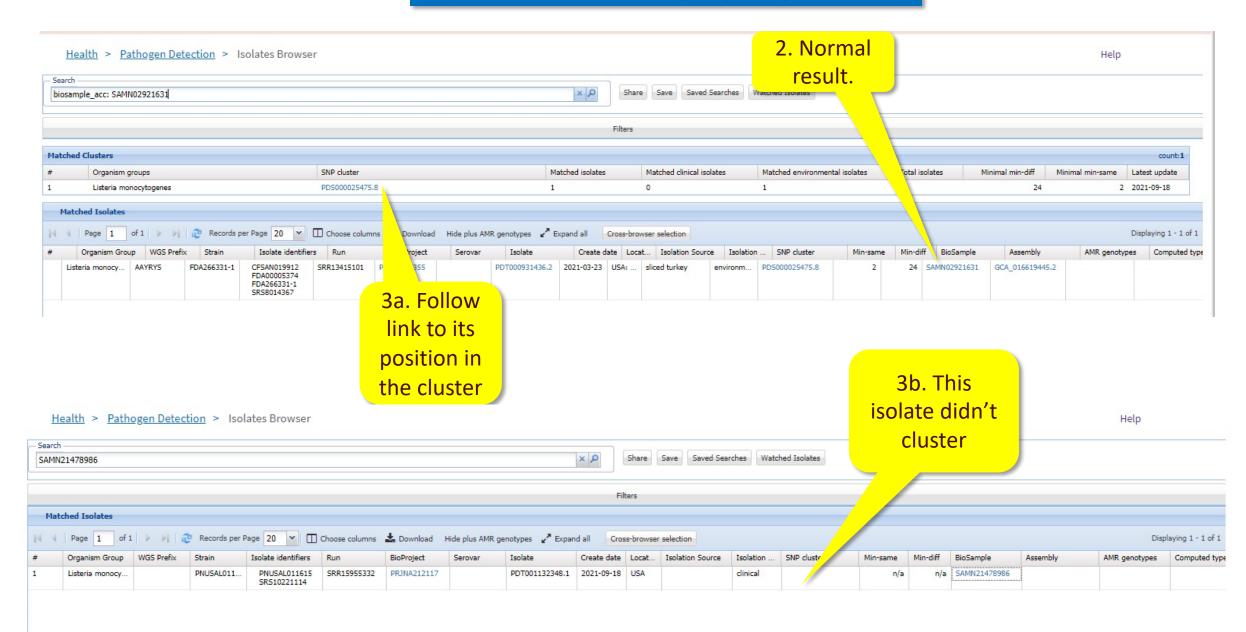
Searches:

By biosample	biosample_acc: SAMN02921631
By strain or isolate name	isolate_identifiers: CFSAN019912
By SRA run	Run: SRR13415101
By bioproject	bioproject_acc: PRJNA215355
By assembly	asm_acc: GCA_016619445.2 or wgs_acc_prefix: AAYRYS
By pathogen record creation date (when the record was received by Pathogen)	creation_date: [2021-03-23 TO 2021-03-25] or taxgroup_name:"Listeria monocytogenes" AND new:1

- Searches can usually be entered without the prefix <search term>:
- You can also drop lists of identifiers into the search box

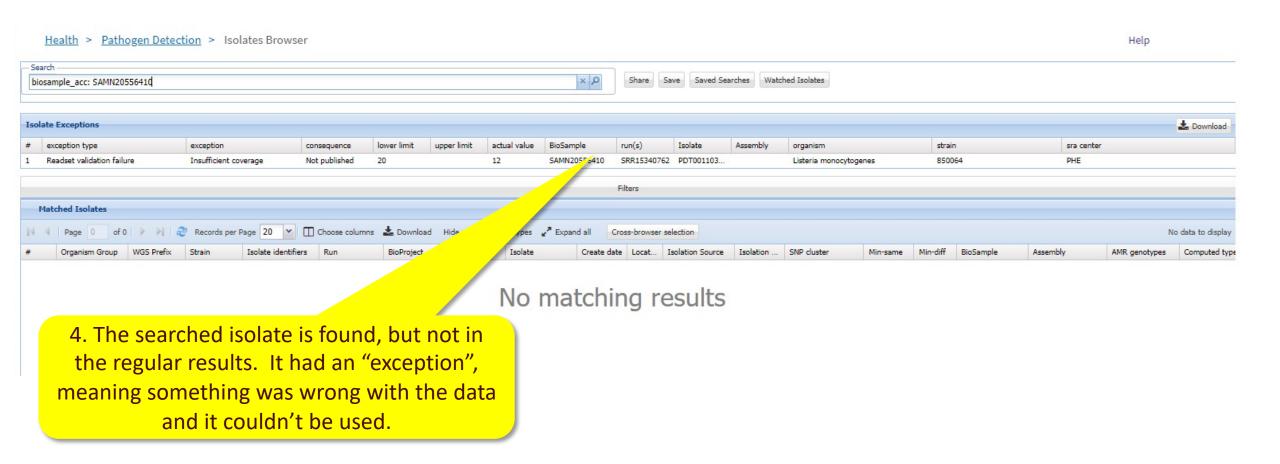
Isolate is found in Browser

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



Isolate is found in Browser - 2

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



More about pathogen isolate exceptions...

Isolate not found

Organism Groups

Species	Version	Publication Date [*]	Latest Isolate Creation Date*	Clusters	New Isolates	New Clinical Isolates	Environmer Isola		Total Isolates		
Salmonella enterica	PDG000000002.2298	2021-09-19 10:11	2021-09-16 19:31	18,965	5. C	heck	the La	tes	t Isolo	ate Creation Date,	
E.coli and Shigella	PDG000000004.2889	2021-09-19 14:31	2021-09-18 10:48	19,365						•	
<u>Campylobacter jejuni</u>	PDG000000003.1498	2021-09-18 08:31	2021-09-18 01:30		is it before the date when your isolate was submitted?						
Listeria monocytogenes	PDG000000001.2394	2021-09-18 07:52	2021-09-18 01:30	3,880							
Klebsiella pneumoniae	PDG000000012.1011	2021-09-20 08:14	2021-09-18 22:00	4,033							
Streptococcus pneumoniae	PDG000000074.38	2021-09-20 08:05	2021-09-16 06:51	3,738	If not then you should wait for the next						
Staphylococcus aureus	PDG000000073.170	2021-09-19 08:00	2021-09-18 07:51	3,126	ρι	ublica	tion.(Che	eck ba	ck on this page.	
Enterococcus faecium	PDG000000071.194	2021-09-18 08:23	2021-09-14 22:45	921	<u>15</u>	<u>5</u>		<u>10</u>	19,822		
Clostridioides difficile	PDG000000045.260	2021-09-17 06:31	2021-09-17 03:33	519	3	<u>3</u>		0	18,114		
<u>Neisseria</u>	PDG000000032.225	2021-09-07 07:43	2021-08-05 22:00	1,242	0	0		0	16,047		
Pseudomonas aeruginosa	PDG000000036.505	2021-09-18 08:31	2021-09-18 00:34	1,059	22	<u>21</u>		0	12,988		
Acinetobacter baumannii	PDG00000010.616	2021-09-18 08:40	2021-09-18 00:34	705	70	<u>69</u>		0	12,766		
Mycobacterium tuberculosis	PDG000000034.221	2021-09-09 06:56	2021-09-07 22:01	771	1	1		0	<u>8,504</u>		
Enterococcus faecalis	PDG000000072.173	2021-09-17 06:07	2021-09-17 01:32	991	<u>3</u>	0		3	7,254		
<u>Vibrio cholerae</u>	PDG000000055.226	2021-09-16 07:31	2021-09-16 02:33	206	<u>4</u>	4		0	<u>5,675</u>	Note: Saln	
<u>Enterobacter</u>	PDG000000028.515	2021-09-18 07:43	2021-09-18 00:34	595	<u>10</u>	<u>5</u>		3	<u>5,641</u>	take sever	
<u>Vibrio parahaemolyticus</u>	PDG000000023.485	2021-09-18 08:42	2021-09-17 21:34	396	3	3		0	4,698	take sever	
Legionella pneumophila	PDG000000026.129	2021-09-18 08:02	2021-09-14 14:27	199	1	<u>1</u>		0	4,406		
Staphylococcus pseudintermedius	PDG000000042.219	2021-09-18 08:14	2021-09-15 07:28	123	49	49		0	2,620		

Note: Salmonella in particular can take several days to recompute.

Isolate not found

Things to check if you still can't find it:

- Is the isolate found in NCBI Entrez BioSample?
- https://www.ncbi.nlm.nih.gov/biosample/SAMN21478986
- If not, then check the Submission Portal
- https://submit.ncbi.nlm.nih.gov/
- If so, then have you registered your bioproject with the Pathogen project? This is necessary for the system to "listen for" new isolates from your project.
 - To register send a request to <u>pd-help@ncbi.nlm.nih.gov</u>
- Still having problems? Write to <u>pd-help@ncbi.nlm.nih.gov</u>

More information

- For full help documentation of the Pathogen Isolates Browser: https://www.ncbi.nlm.nih.gov/pathogens/pathogens_help/#isolates-browser
- For Submission Portal documentation on SRA: <u>https://submit.ncbi.nlm.nih.gov/about/sra/</u>
- For Submission Portal documentation on WGS or Complete Genome submission: https://submit.ncbi.nlm.nih.gov/about/genome/

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