

BV-BRC Test Report

D1. Overview Data Tab - Bacteria

Item to test	Overview Data Tab
URL	https://www.bv-brc.org/view/Bacteria/2
Prerequisites	None
References	https://www.bv-brc.org/docs/quick_references/organisms_taxon/overview.html
Tester(s)	Rebecca Wattam, Ron Kenyon
Test date	06-Jan-2022 (original-passed), 8-May-2022 (follow-up-passed)
Test result	Passed (1 minor issue reported)

Overview

- Test the bacterial data Overview Tabs.
- Verify that links from each group go to correct location.
- Check other links to verify correct operation.

Test Results

- Test results were verified by examination of returned data via inspection.
- All links went to correct locations on the website; one minor issue reported in GitHub.
 - Issue: From top menu, the link from Borreliella did not go to correct page.
 - Fix: The link was fixed.

Bacteria:

























Bacteria View
 Bacteria (570580 Genomes)

- Overview
- Phylogeny
- Taxonomy
- Genomes
- AMR Phenotypes
- Sequences
- Proteins
- Protein Structures
- Specialty Genes
- Domains and Motifs
- Epitopes
- Pathways

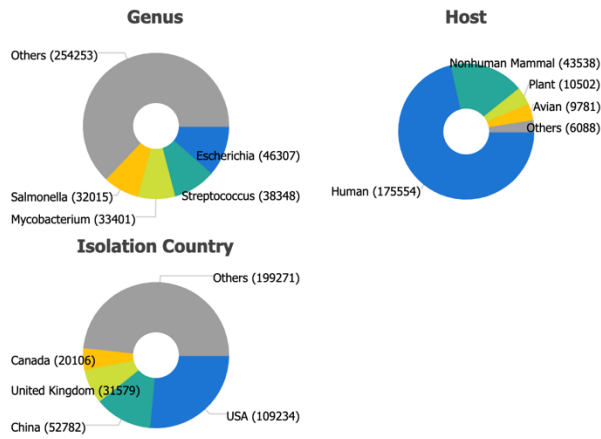
Bacteria Data Summary

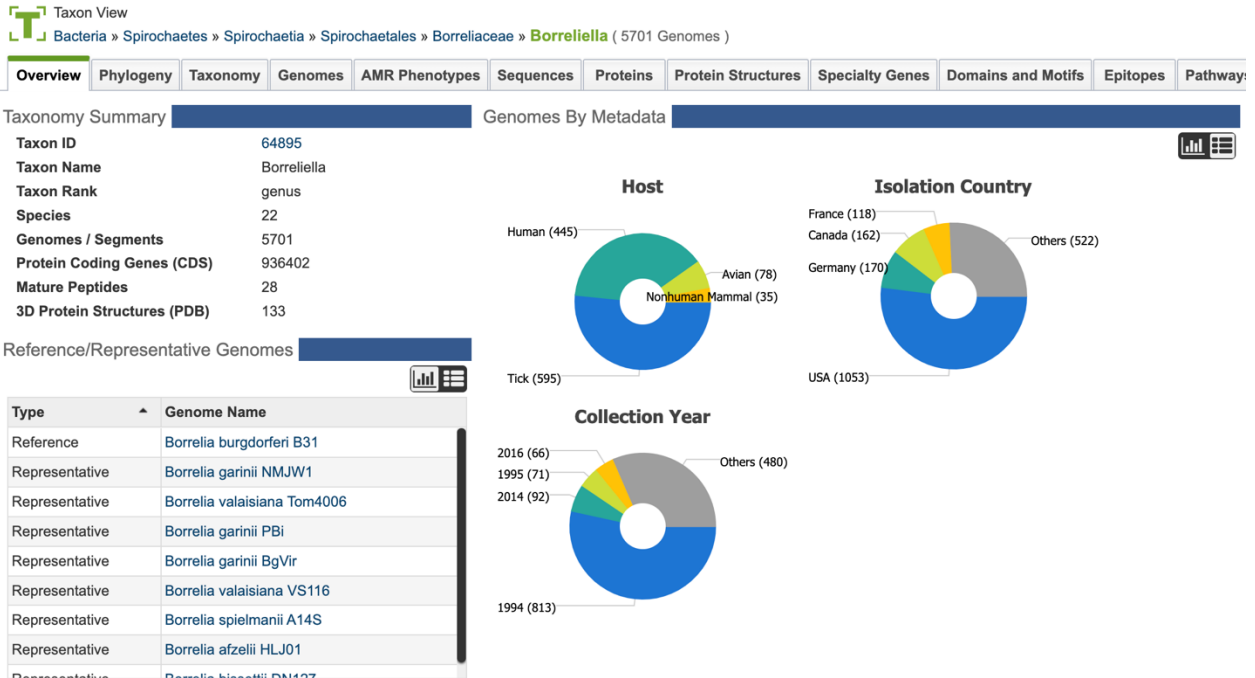
Families	594
Genera	3658
Species	58813
Genomes / Segments	570555
Protein Coding Genes (CDS)	3170771679
Mature Peptides	1961
3D Protein Structures (PDB)	58342

Bacteria Genera

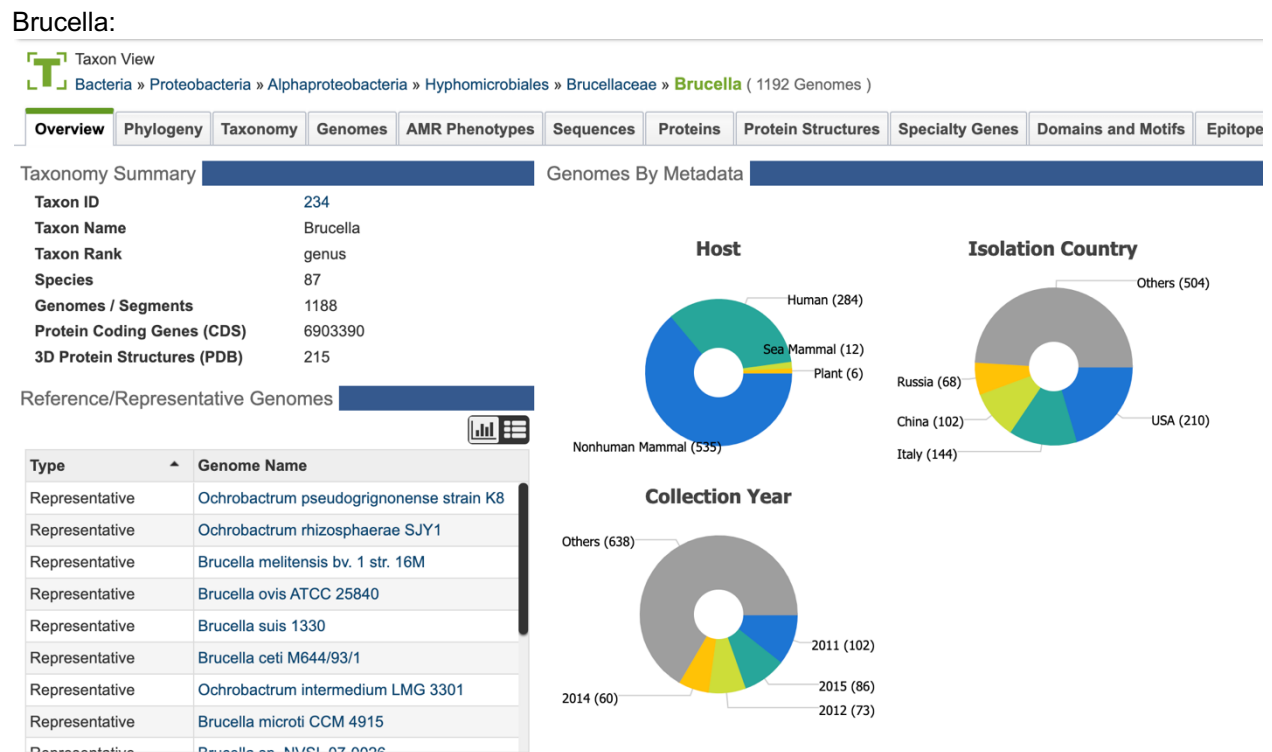
 <i>Acinetobacter</i>	 <i>Campylobacter</i>	 <i>Francisella</i>	 <i>Salmonella</i>
 <i>Bacillus</i>	 <i>Chlamydia</i>	 <i>Helicobacter</i>	 <i>Shigella</i>
 <i>Bartonella</i>	 <i>Clostridium</i>	 <i>Listeria</i>	 <i>Staphylococcus</i>
 <i>Borrelia</i>	 <i>Coxiella</i>	 <i>Mycobacterium</i>	 <i>Streptococcus</i>
 <i>Brucella</i>	 <i>Ehrlichia</i>	 <i>Pseudomonas</i>	 <i>Vibrio</i>
 <i>Burkholderia</i>	 <i>Escherichia</i>	 <i>Rickettsia</i>	 <i>Yersinia</i>

Bacteria By Metadata





Borrelia:
 Did not go to correct location – GitHub ticket issued

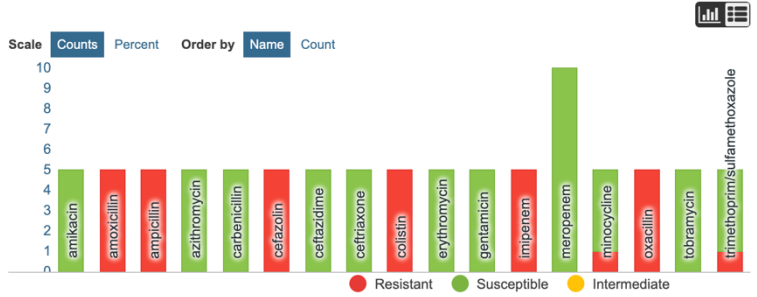


Burkholderia:

Taxonomy Summary

Taxon ID	32008
Taxon Name	Burkholderia
Taxon Rank	genus
Species	316
Genomes / Segments	5077
Protein Coding Genes (CDS)	65451950
3D Protein Structures (PDB)	685

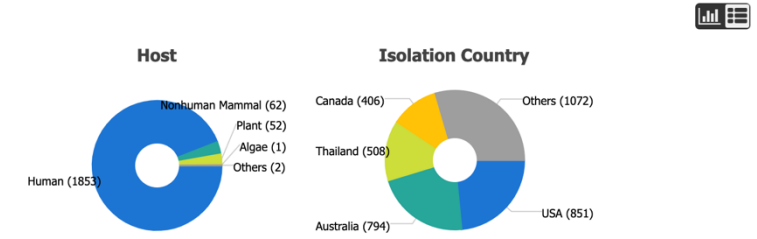
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Burkholderia mallei ATCC 23344
Reference	Burkholderia pseudomallei K96243
Representative	Burkholderia cepacia ATCC 25416
Representative	Burkholderia sp. TJI49
Representative	Burkholderia cepacia JBK9
Representative	Burkholderia glumae BGR1
Representative	Burkholderia pyrrocinia CH-67
Representative	Burkholderia sp. MR1
Representative	Burkholderia sp. JF20

Genomes By Metadata

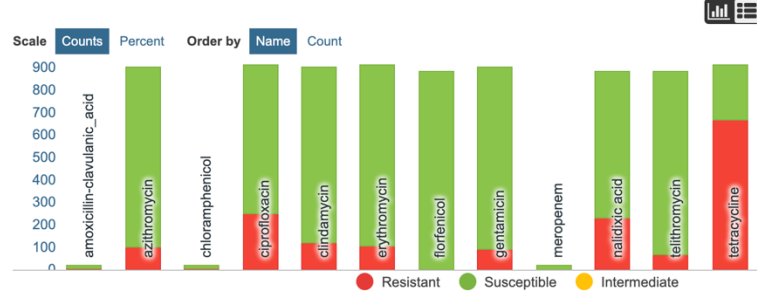


Campylobacter:

Taxonomy Summary

Taxon ID	194
Taxon Name	Campylobacter
Taxon Rank	genus
Species	270
Genomes / Segments	8526
Protein Coding Genes (CDS)	21619568
3D Protein Structures (PDB)	341

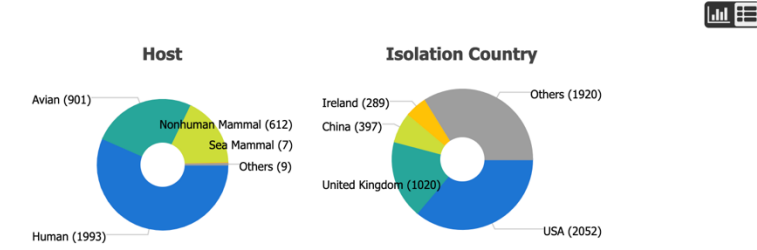
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Campylobacter jejuni subsp. jejuni NCTC 11168 = ATCC 700819
Representative	Bacteroides ureolyticus DSM 20703
Representative	Campylobacter coli RM4661
Representative	Campylobacter coli strain OR12
Representative	Campylobacter fetus subsp. fetus 82-40
Representative	Campylobacter gracilis RM3268
Representative	Campylobacter hominis ATCC BAA-381
Representative	Campylobacter mucosalis strain DSM 21682

Genomes By Metadata



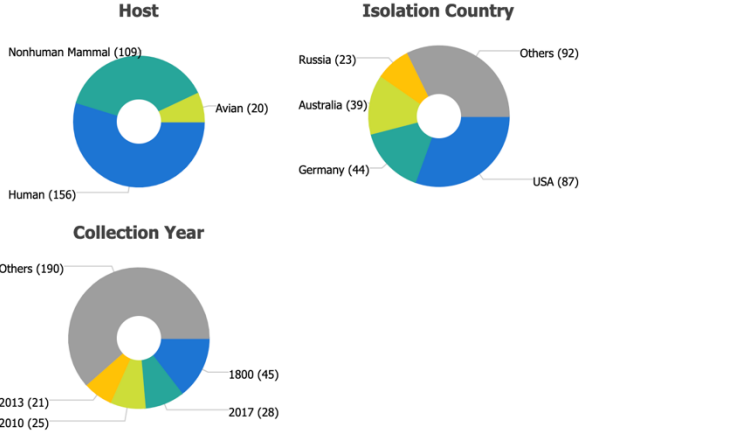
Chlamydia:

Taxonomy Summary Genomes By Metadata

Taxon ID	810
Taxon Name	Chlamydia
Taxon Rank	genus
Species	22
Genomes / Segments	600
Protein Coding Genes (CDS)	1041044
3D Protein Structures (PDB)	98

Reference/Representative Genomes

Type	Genome Name
Reference	Chlamydia trachomatis 434/Bu
Reference	Chlamydia trachomatis D/UW-3/CX
Reference	Chlamydia pneumoniae CWL029
Representative	Chlamydia psittaci 84-8471/1
Representative	Chlamydia sp. 10DC88
Representative	Chlamydiaceae bacterium 10-1398/6
Representative	Chlamydia abortus S26/3
Representative	Chlamydia felis Fe/C-56
Representative	Chlamydia muridarum Nle



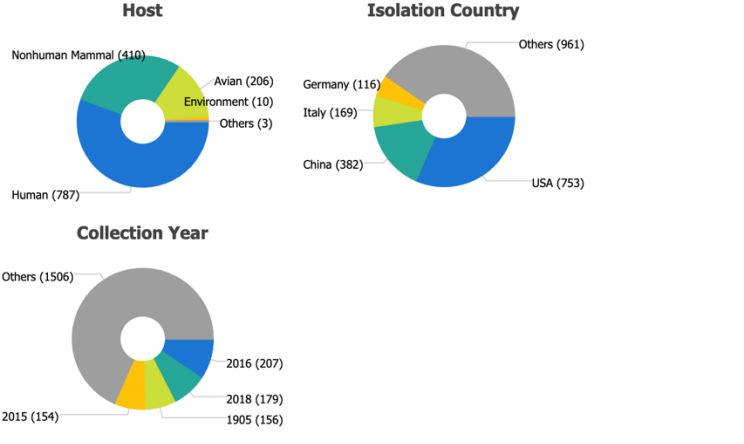
Clostridium:

Taxonomy Summary Genomes By Metadata

Taxon ID	1485
Taxon Name	Clostridium
Taxon Rank	genus
Species	439
Genomes / Segments	3868
Protein Coding Genes (CDS)	22847763
3D Protein Structures (PDB)	711

Reference/Representative Genomes

Type	Genome Name
Reference	Clostridium acetobutylicum ATCC 824
Reference	Clostridium botulinum A str. ATCC 3502
Reference	Clostridium botulinum A str. Hall
Representative	Clostridium akagii DSM 12554
Representative	Clostridium argentinense CDC 2741
Representative	Clostridium autoethanogenum DSM 10061
Representative	Clostridium baratii str. Sullivan
Representative	Clostridium bartlettii CAG:1329
Representative	Clostridium butyricum strain M111.00



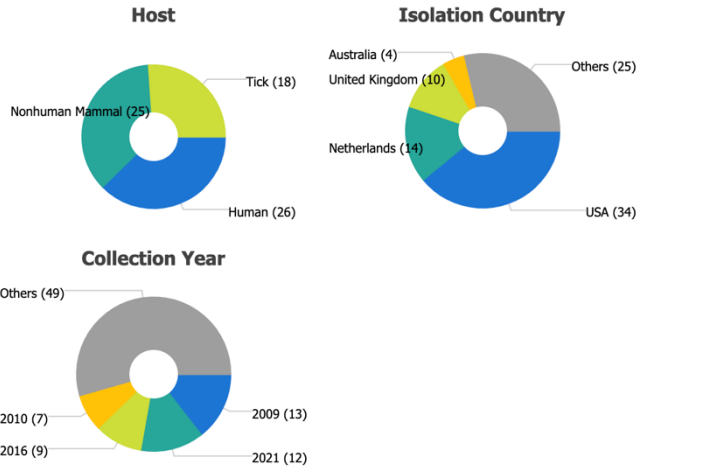
Coxiella:

Taxonomy Summary | Genomes By Metadata

Taxon ID	776
Taxon Name	Coxiella
Taxon Rank	genus
Species	12
Genomes / Segments	122
Protein Coding Genes (CDS)	362230
3D Protein Structures (PDB)	63

Reference/Representative Genomes

Type	Genome Name
Reference	Coxiella burnetii RSA 493
Representative	Coxiella endosymbiont of Amblyomma americanum C904



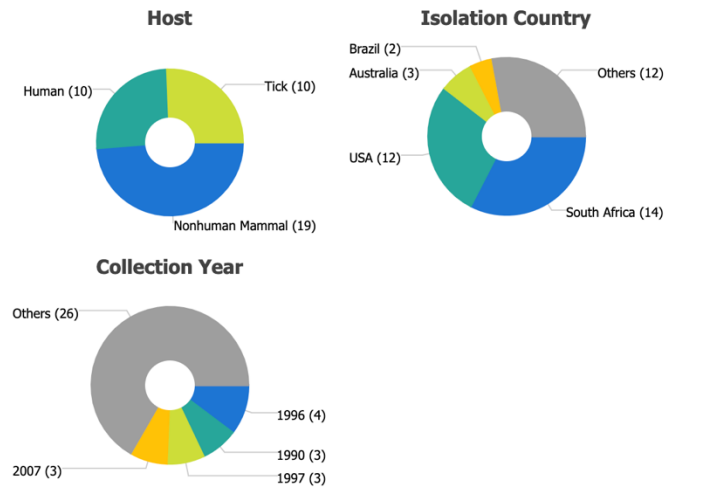
Ehrlichia:

Taxonomy Summary | Genomes By Metadata

Taxon ID	943
Taxon Name	Ehrlichia
Taxon Rank	genus
Species	7
Genomes / Segments	46
Protein Coding Genes (CDS)	99783
3D Protein Structures (PDB)	17

Reference/Representative Genomes

Type	Genome Name
Representative	Ehrlichia chaffeensis str. Arkansas
Representative	Ehrlichia muris AS145
Representative	Ehrlichia ruminantium str. Gardel
Representative	Ehrlichia canis str. Jake
Representative	Ehrlichia mineirensis UFMG-EV
Representative	Ehrlichia ruminantium str. Welgevonden
Representative	Ehrlichia ruminantium str. Welgevonden (Prj:9614)
Representative	Ehrlichia sp. HF



Escherichia:

Taxon View
 Bacteria » Proteobacteria » Epsilonproteobacteria » Campylobacteriales » Helicobacteraceae » **Helicobacter** (3037 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Su

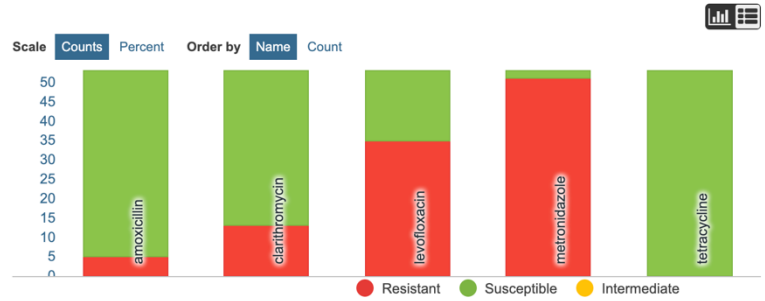
Taxonomy Summary

Taxon ID	209
Taxon Name	Helicobacter
Taxon Rank	genus
Species	89
Genomes / Segments	3037
Protein Coding Genes (CDS)	7650775
3D Protein Structures (PDB)	562

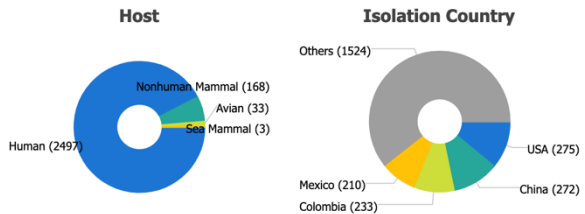
Reference/Representative Genomes

Type	Genome Name
Reference	Helicobacter pylori 26695
Representative	Helicobacter cetorum MIT 00-7128
Representative	Helicobacter bilis ATCC 43879
Representative	Helicobacter canadensis MIT 98-5491
Representative	Helicobacter canadensis MIT 98-5491 (Prj:30719)
Representative	Helicobacter canis NCTC 12740
Representative	Helicobacter fennelliae MRY12-0050
Representative	Helicobacter hepaticus ATCC 51449

Genomes By Antimicrobial Resistance



Genomes By Metadata



Listeria:

Taxon View
 Bacteria » Firmicutes » Bacilli » Bacillales » Listeriaceae » **Listeria** (5974 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Su

Taxonomy Summary

Taxon ID	1637
Taxon Name	Listeria
Taxon Rank	genus
Species	44
Genomes / Segments	5974
Protein Coding Genes (CDS)	33195984
3D Protein Structures (PDB)	418

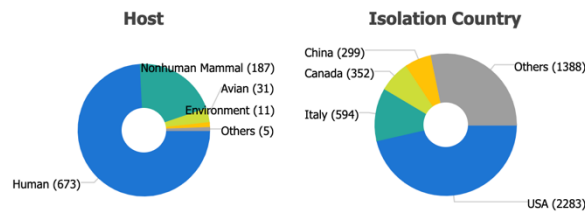
Reference/Representative Genomes

Type	Genome Name
Reference	Listeria monocytogenes EGD-e
Representative	Listeria grayi DSM 20601
Representative	Listeria ivanovii subsp. ivanovii PAM 55
Representative	Listeria weihenstephanensis FSL R9-0317
Representative	Listeriaceae bacterium FSL A5-0281
Representative	Listeria innocua Clp11262
Representative	Listeria welshimeri serovar 6b str. SLCC5334
Representative	Listeria seeligeri serovar 1/2b str. SLCC3954
Representative	Listeria malii FSL S4-128

Genomes By Antimicrobial Resistance



Genomes By Metadata



Mycobacterium:

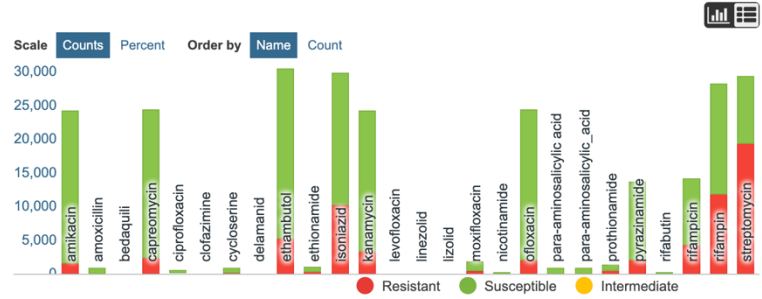
Taxon View
 Bacteria » Actinobacteria » Actinomycetia » Corynebacteriales » Mycobacteriaceae » **Mycobacterium** (33401 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Sub

Taxonomy Summary

Taxon ID 1763
 Taxon Name Mycobacterium
 Taxon Rank genus
 Species 312
 Genomes / Segments 33401
 Protein Coding Genes (CDS) 184532658
 3D Protein Structures (PDB) 3062

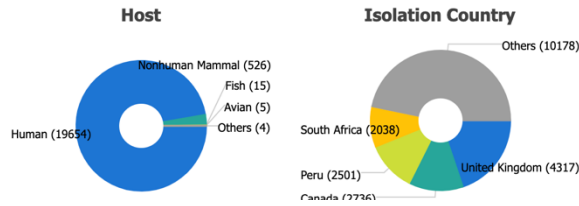
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Mycobacterium tuberculosis H37Rv
Reference	Mycobacterium leprae TN
Reference	Mycobacterium bovis AF2122/97
Representative	Mycobacterium xenopi RIVM700367
Representative	Mycobacterium simiae strain MO323
Representative	Mycobacterium smegmatis JS623
Representative	Mycobacterium sp. EPa45
Representative	Mycobacterium sp. VKM Ac-1817D
Representative	Mycobacterium goodii DSM 46225

Genomes By Metadata



Pseudomonas:

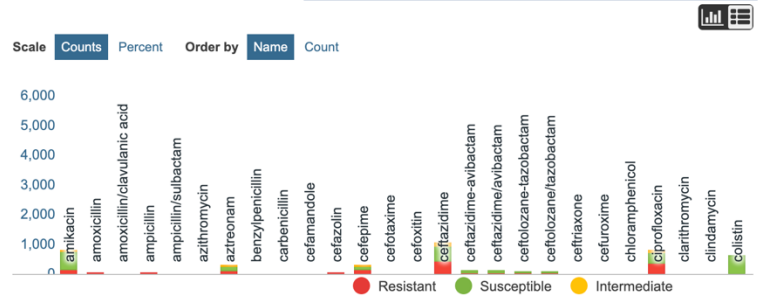
Taxon View
 Bacteria » Proteobacteria » Gammaproteobacteria » Pseudomonadales » Pseudomonadaceae » **Pseudomonas** (16249 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Subs

Taxonomy Summary

Taxon ID 286
 Taxon Name Pseudomonas
 Taxon Rank genus
 Species 1877
 Genomes / Segments 16248
 Protein Coding Genes (CDS) 151482005
 3D Protein Structures (PDB) 3749

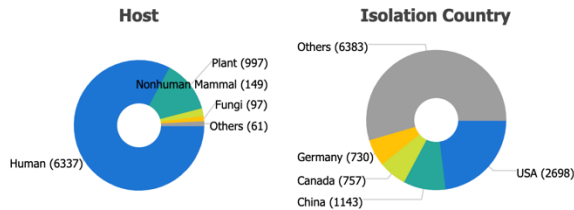
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Pseudomonas putida KT2440
Reference	Pseudomonas syringae pv. tomato str. DC3000
Reference	Pseudomonas aeruginosa PAO1
Reference	Pseudomonas syringae pv. syringae B728a
Representative	Pseudomonas avellanae BPIC 631
Representative	Pseudomonas plecoglossicida NB2011
Representative	Pseudomonas sp. M47T1
Representative	Pseudomonas viridiflava UASWS0038

Genomes By Metadata



Rickettsia:

Taxon View

Bacteria » Proteobacteria » Alphaproteobacteria » Rickettsiales » Rickettsiaceae » **Rickettsia** (197 Genomes)

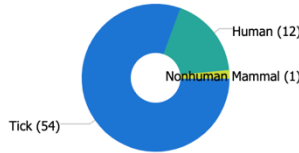
Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes

Taxonomy Summary

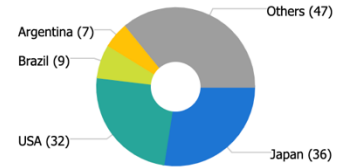
Taxon ID	780
Taxon Name	Rickettsia
Taxon Rank	genus
Species	52
Genomes / Segments	197
Protein Coding Genes (CDS)	383441
3D Protein Structures (PDB)	47

Genomes By Metadata

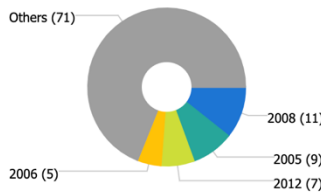
Host



Isolation Country



Collection Year



Reference/Representative Genomes

Type	Genome Name
Reference	Rickettsia prowazekii str. Madrid E
Representative	Rickettsia slovaca 13-B
Representative	Rickettsia conorii str. Malish 7
Representative	Rickettsia honei RB
Representative	Rickettsia sibirica 246
Representative	Rickettsia rhipicephali str. 3-7-female6-CWPP
Representative	Candidatus Rickettsia asemboensis NMRCii
Representative	Rickettsia peacockii str. Rustic
Representative	Rickettsia tarassovi str. AT 4

Salmonella:

Taxon View

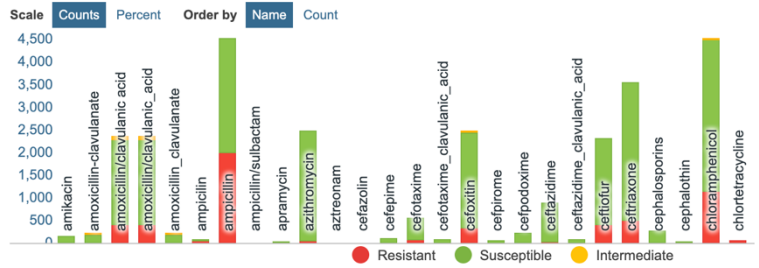
Bacteria » Proteobacteria » Gammaproteobacteria » Enterobacteriales » Enterobacteriaceae » **Salmonella** (32015 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Sub

Taxonomy Summary

Taxon ID	590
Taxon Name	Salmonella
Taxon Rank	genus
Species	305
Genomes / Segments	32015
Protein Coding Genes (CDS)	231741011
Mature Peptides	4
3D Protein Structures (PDB)	903

Genomes By Antimicrobial Resistance

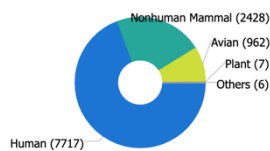


Reference/Representative Genomes

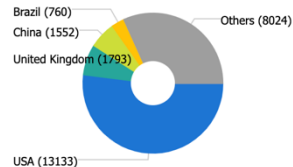
Type	Genome Name
Reference	Salmonella enterica subsp. enterica serovar Typhimurium str. LT2
Reference	Salmonella enterica subsp. enterica serovar Typhi str. CT18
Representative	Salmonella enterica subsp. enterica serovar Typhimurium str. 14028S
Representative	Salmonella enterica subsp. enterica serovar Paratyphi A str. ATCC 9150
Representative	Salmonella enterica subsp. enterica serovar Typhi str. Ty2

Genomes By Metadata

Host



Isolation Country



Shigella:

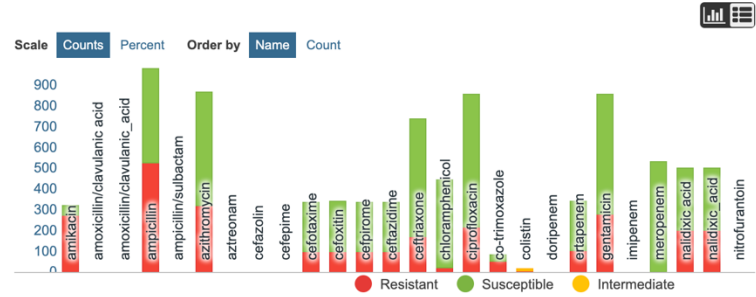
Taxon View
 Bacteria » Proteobacteria » Gammaproteobacteria » Enterobacteriales » Enterobacteriaceae » **Shigella** (5460 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Subs

Taxonomy Summary

Taxon ID	620
Taxon Name	Shigella
Taxon Rank	genus
Species	112
Genomes / Segments	5460
Protein Coding Genes (CDS)	38312923
3D Protein Structures (PDB)	189

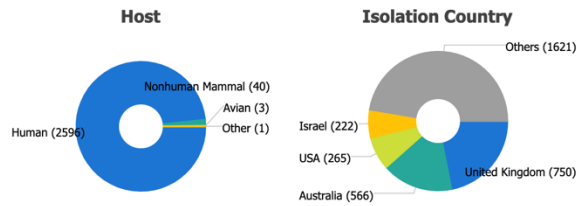
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Shigella dysenteriae Sd197
Reference	Shigella flexneri 2a str. 301
Representative	Shigella boydii Sb227
Representative	Shigella flexneri 1235-66
Representative	Shigella sonnei Ss046
Representative	Shigella sonnei strain H140920393

Genomes By Metadata



Staphylococcus:

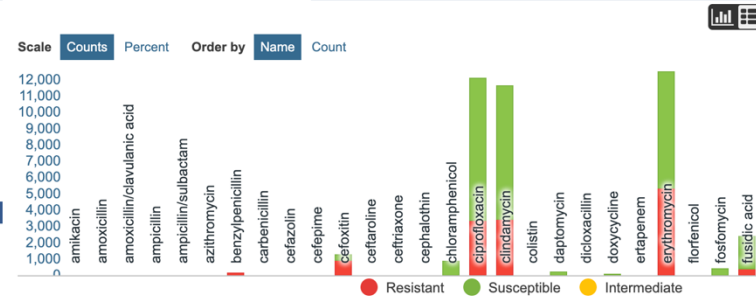
Taxon View
 Bacteria » Firmicutes » Bacilli » Bacillales » Staphylococcaceae » **Staphylococcus** (25266 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Sub

Taxonomy Summary

Taxon ID	1279
Taxon Name	Staphylococcus
Taxon Rank	genus
Species	578
Genomes / Segments	25266
Protein Coding Genes (CDS)	112472458
Mature Peptides	4
3D Protein Structures (PDB)	2224

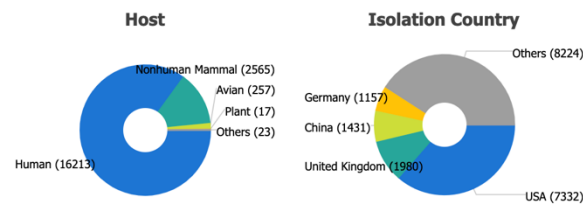
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Staphylococcus aureus subsp. aureus NCTC 8325
Reference	Staphylococcus epidermidis ATCC 12228
Representative	Staphylococcus aureus subsp. aureus DSM 20231
Representative	Staphylococcus aureus subsp. aureus N315
Representative	Staphylococcus capitis SK14
Representative	Staphylococcus capitis subsp. capitis strain AYP1020

Genomes By Metadata



Streptococcus:

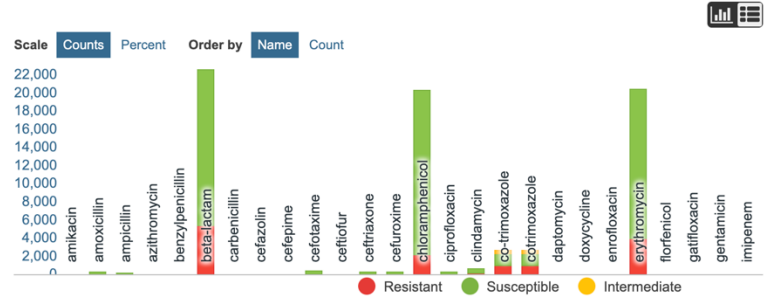
Taxon View
 Bacteria » Firmicutes » Bacilli » Lactobacillales » Streptococcaceae » **Streptococcus** (38348 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Sub

Taxonomy Summary

Taxon ID	1301
Taxon Name	Streptococcus
Taxon Rank	genus
Species	423
Genomes / Segments	38348
Protein Coding Genes (CDS)	123703999
3D Protein Structures (PDB)	1628

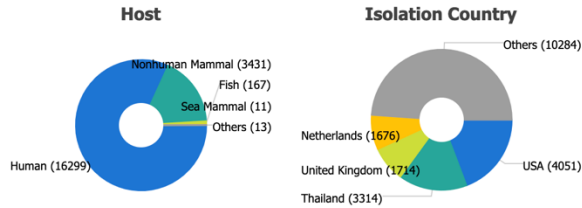
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Streptococcus mitis B6
Reference	Streptococcus mutans UA159
Reference	Streptococcus pyogenes M1 GAS
Reference	Streptococcus sanguinis SK36
Reference	Streptococcus suis BM407
Reference	Streptococcus pneumoniae R6
Reference	Streptococcus agalactiae 2603V/R
Representative	Streptococcus iniae IUUSA1
Representative	Streptococcus suis ATCC 39624

Genomes By Metadata



Vibrio:

Taxon View
 Bacteria » Proteobacteria » Gammaproteobacteria » Vibrionales » Vibrionaceae » **Vibrio** (6412 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | AMR Phenotypes | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathways | Sub

Taxonomy Summary

Taxon ID	662
Taxon Name	Vibrio
Taxon Rank	genus
Species	392
Genomes / Segments	6411
Protein Coding Genes (CDS)	50270563
3D Protein Structures (PDB)	998

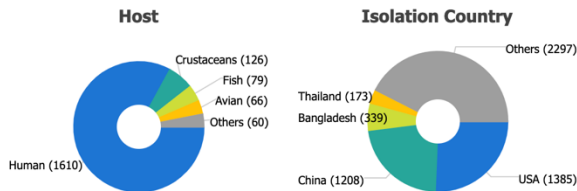
Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Vibrio cholerae O1 biovar El Tor str. N16961
Reference	Vibrio parahaemolyticus RIMD 2210633
Representative	Vibrio crassostreae strain Evh12
Representative	Vibrio scophthalmi LMG 19158
Representative	Vibrio tubiashii ATCC 19109
Representative	Vibrio alginolyticus NBRC 15630 = ATCC 17749
Representative	Vibrio breoganii 1C10
Representative	Vibrio campbellii DS40M4

Genomes By Metadata

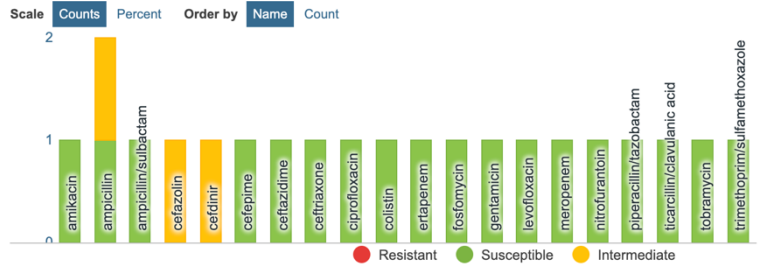


Yersinia:

Taxonomy Summary

Taxon ID	629
Taxon Name	Yersinia
Taxon Rank	genus
Species	29
Genomes / Segments	1537
Protein Coding Genes (CDS)	10881019
3D Protein Structures (PDB)	449

Genomes By Antimicrobial Resistance



Reference/Representative Genomes

Type	Genome Name
Reference	Yersinia enterocolitica subsp. enterocolitica 8081
Reference	Yersinia pestis CO92
Representative	Yersinia ruckeri strain Big Creek 74
Representative	Yersinia aldovae ATCC 35236
Representative	Yersinia bercovieri ATCC 43970
Representative	Yersinia enterocolitica LC20
Representative	Yersinia frederiksenii ATCC 33641
Representative	Yersinia intermedia ATCC 29909

Genomes By Metadata

