

To prioritize, design, and execute clinical research that will reduce the public health threat of antibacterial resistance

ARLG Project Spotlight

Virtual Biorepository - Strain Catalogue

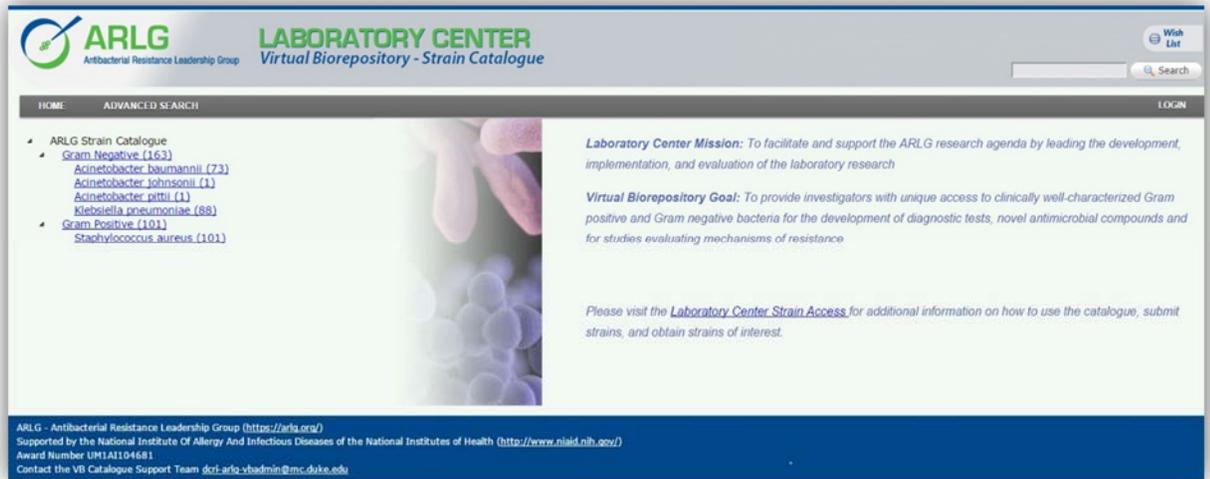
The ARLG Laboratory Center (LC) and Leadership and Operations Center (LOC) are proud to announce the deployment of the Virtual Biorepository (ARLG-VB) - Strain Catalogue website [arlgcatalogue.org]. The web-based system provides ARLG investigators with a convenient resource of well-characterized Gram-positive and Gram-negative bacterial strains published by and maintained in the laboratories of contributing ARLG members.

ARLG Update

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The catalogue project (system development and process requirements) is a result of a coordinated effort between Carol Bova Hill, PhD, ARLG Project Leader at the Duke Clinical Research Institute, the Laboratory Center (ARLG-LC) manager Claudia Manca, PhD, of the Public Health Research Institute at Rutgers University. Peggy Arias, Keri Baum, Nancie Deckard, Anne Heath (DCRI) as well as Emily Hecker (Duke's Division of Infectious Diseases) also contributed to the catalogue's success.



Claudia Manca, PhD

Thanks to the team's hard work, the catalogue will become a valuable and frequently used resource for antibacterial resistance researchers. "...Strains come in all flavors, and it's a free service we provide to the scientific community," Manca commented. The catalogue currently lists approximately 300 individual strains, with more added regularly. "This project is all about coordinating the resources that are already out there," Hill said. "There's a lot of good science being done, and we just want to make it easier for people to find it."

The ARLG-LC, with support of the ARLG-LOC, is responsible for further developing and maintaining the ARLG-VB resource with oversight by the ARLG Executive Committee. The website is managed by the ARLG-LC and supported by the National Institute of Allergy and Infectious Diseases of the National Institutes of Health.

The ARLG-LC is a leadership resource led by Barry Kreiswirth, PhD, Public Health Research Institute at Rutgers University and Robert Bonomo, MD, Case Western Reserve University.



Carol Bova Hill, Ph.D

For more information about the ARLG, its leaders, or its current projects, please visit arlg.org

ARLG Project Spotlight

Virtual Biorepository – Strain Catalogue *continued*

Please visit arlgcatalogue.org to review our carefully selected strains for potential use in your research. Frequently Asked Questions (FAQ) and Quick Reference Cards (QRC) are available on the ARLG website to assist you in: Accessing the Catalogue, and searching, selecting, or requesting strains of interest.

Finding Strains

- Browse by species of Gram stain
- Simple search by strain names or species, comma delimited—OR logic
- Advanced search for more options and narrowing of search criteria

| TYPE | Genetic Characterization | Result | PubMed ID |
|-------------------------|--------------------------|-----------|-----------|
| MLST Clonal Complex | | 30 | 23284028 |
| MLST Sequence Type (ST) | | 30 | 23284028 |
| Phage Lineage | | SCW1 | 23284028 |
| SCCmec type | | PIISA | 23284028 |
| spa Repeats (eGenomic) | | W9KKAQAMQ | 23284028 |
| spa type (Stam) | | t318 | 23284028 |
| spa type (eGenomic) | | 291 | 23284028 |

Reviewing Strains

- View a detailed strain description
- Hypertext link to PubMed articles
- Add strains of interest to Wish List

Exporting and Requesting Strains

- Visitors can add strains to Wish List to export or e-mail
- ARLG members can add strains to Wish List to export or request strains
- Navigate to the list by clicking the icon at the top of the catalogue page

| ARLG ID | Lab Strain ID | Accession | Species | References |
|-----------|---------------|------------------------|-----------------------|------------|
| ARLG-1001 | 1-41 | 21195, Cowan I | Staphylococcus aureus | 23284024 |
| ARLG-1002 | BK21285 | 21285, NCT05571_1MS204 | Staphylococcus aureus | 23284024 |

For details, please visit:
<https://www.arlg.org/laboratory-center-strain-access>