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micro scoop



ATCC® Multidrug-resistant *Pseudomonas aeruginosa*

Pseudomonas aeruginosa is one of the leading causes of nosocomial infections among critically ill patients. With the increasing frequency of multidrug-resistant *P. aeruginosa* (MDRPA) strains, and the lack of effective antimicrobial therapies, these infections have become challenging to treat.

Pseudomonas aeruginosa.
Photo courtesy of Janice Haney Carr, CDC.

To aid in the development and evaluation of novel therapeutic drugs, ATCC has made available seven clinical MDRPA strains isolated from human sputum samples. These strains were thoroughly tested against a variety of drug classes, including the penicillins, cephalosporins, carbapenems, quinolones, and aminoglycosides, and were found to exhibit resistance to as many as 15 antibiotics

[Learn more](#)



Webinar: Drug-resistant *Acinetobacter baumannii* – A growing superbug population

In recent years, natural and societal selective pressures have led to the emergence of numerous antibiotic-resistant microbial strains, including

multidrug- and pan drug-resistant strains of *Acinetobacter baumannii*. These strains have become a significant cause of nosocomial infection among immunologically compromised individuals, resulting in increased morbidity and mortality. This presentation will provide an overview of this escalating problem, and will explore the current techniques used to identify drug-resistant *A. baumannii* strains, available therapies, and remaining concerns.

Register for a session - [10:00 AM \(EST\)](#) or [3:00 PM \(EST\)](#).

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Publications

ATCC Multidrug Resistant & Antimicrobial Reference Strains

A selection guide featuring clinical and environmental microorganisms that exhibit antimicrobial-resistance.

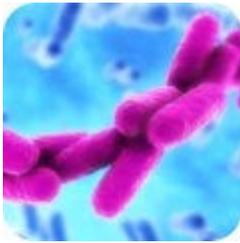
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ATCC® Microbiology Culture Guides

Culture guides offering tips and techniques on the cultivation of:

- Bacteria
- Yeasts & Fungi
- Protozoa & Algae
- Viruses

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ATCC® Carbapenem-resistant Enterobacteriaceae (CRE)

Carbapenem-Resistant Enterobacteriaceae (CRE) strains have been attributed to numerous infections worldwide, resulting in mortality rates exceeding 40%. To support the field of CRE research, ATCC has acquired and authenticated various clinical isolates, including NDM and KPC strains, which exhibit resistance to carbapenem antibiotics and other antimicrobial agents.

[Find strains](#)



ATCC® Crossword Puzzle

Test your microbial expertise with the ATCC crossword puzzle!

[Download the Puzzle](#)

Still puzzled? [View the answers to last month's puzzle](#)



Quiz The Scientist

I am a vector-borne pathogen that is occasionally resistant to pyrimethamine. Can you guess what I am?

[Click here for more clues](#)

FAQs

Q: How does ATCC test for antibiotic resistance/susceptibility?

A: ATCC only tests those bacterial strains considered to be “quality control strains” by the Clinical Laboratory Standards Institute (CLSI). CLSI lists breakpoint limits for antibiotics which are considered to be clinically relevant for each quality control strain. ATCC employs a variety of methods for detecting susceptibility/resistance to antibiotics, including Kirby-Bauer, the Modified Hodge Test (MHT), disk diffusion, and Vitek. Which test(s) used is dependent on the strain.

[Have more questions?](#)

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