



April 2016

Share:



# microscoop



## Zika virus reference materials

Zika virus is a vector-borne pathogen that is spread among humans primarily through the bite of infected *Aedes* mosquitoes. With an active outbreak occurring throughout regions in Central and South America, preventing the spread of this disease has become a top priority.

To help support vaccine efficacy testing and the development of detection assays, ATCC has expanded its collection of Zika virus reference materials to include *in vivo* and tissue culture-adapted strains, genomic and synthetic nucleic acid preparations, and supporting products.

### ATCC Zika virus reference materials

| ATCC® No.                  | Product Description   |
|----------------------------|---|
| <a href="#">VR-84™</a>     | Zika virus strain MR 766 (Original)                                 |
| <a href="#">VR-1838™</a>   | Zika virus strain MR 766 (Tissue culture-adapted from ATCC® VR-84™) |
| <a href="#">VR-1839™</a>   | Zika virus strain IBH 30656   |
| <a href="#">VR-1843™</a>   | Zika virus strain PRVABC59  |
| <a href="#">VR-1838DQ™</a> | Quantitative Genomic RNA from Zika virus strain MR 766              |
| VR-3252SD™                 | Quantitative Synthetic Zika virus RNA – <i>Coming soon!</i>         |

### Supporting products

| ATCC® No.                 | Product Description                     |
|---------------------------|---|
| <a href="#">CCL-81™</a>   | Vero Cells                              |
| <a href="#">CRL-1586™</a> | Vero C1008                              |
| <a href="#">30-2003™</a>  | Eagle's Minimum Essential Medium (EMEM) |
| <a href="#">30-2020™</a>  | Fetal Bovine Serum (FBS)                |

Each of our strains and nucleic acid preparations are authenticated and backed by polyphasic testing – ensuring the consistency and reliability you have come to trust from ATCC.

Browse our growing collection of [Zika virus reference materials](#) today! For additional information on other vector-borne diseases available from ATCC, visit us online at [www.atcc.org/vectorborne](http://www.atcc.org/vectorborne).



## Vector-borne disease panels

ATCC offers panels comprising synthetic Dengue viral RNA or genomic DNA isolated from medically relevant species of *Leishmania*.

- *Leishmania* Genomic DNA Panel ([ATCC® MP-13™](#))
- Synthetic Dengue Viral RNA Panel ([ATCC® MP-22™](#))

These products are ideal for assay development, verification, validation, monitoring of day-to-day test variation, and lot-to-lot performance of molecular-based assays for vector-borne disease research.

[Order your panels today!](#)



## Synthetic nucleic acids for vector-borne research

ATCC has developed quantitative synthetic molecular standards that support vector-borne research on difficult-to-culture and high containment microorganisms, including:

- Dengue virus serotypes I-IV
- Chikungunya virus
- Zika virus – *Coming soon!*
- West Nile virus
- Eastern equine encephalitis virus
- St. Louis encephalitis virus

These preparations are produced under ISO 13485:2003 and comprise short conserved fragments that represent clinically relevant regions of the genome.

[Explore our collection.](#)



## Webinar: A Tale of 3 Mummies: A Microbiome Analysis of Life in the Peruvian Andes 1,000 Years Ago

Raul Cano, Ph.D.



## Webinar: Carbapenem-resistant

## Enterobacteriaceae (CRE) – A Growing Superbug Population

Cara N. Wilder, Ph.D.  
Technical Writer, ATCC

*Director, Microbiome Research, ATCC-CTM and Professor Emeritus, California Polytechnic State University*

The natural mummification process is a rare and unique process resulting from low temperatures and oxygen levels, and dry weather conditions. In the present study, we characterized the gut microbiome of three pre-Columbian Andean mummies using 16S rRNA gene high-throughput sequencing and metagenomics to understand the preservation and evolution of commensal and pathogenic microorganisms, antimicrobial resistance genes, diet, and the metabolic processes during the natural mummification of the human gut.

April 14, 2016  
10:00 AM or 3:00 PM ET

Register Now

The discovery of antibiotics in the early twentieth century has revolutionized the treatment of infectious diseases, saving millions of lives and easing the suffering of many. However, as the structure and function of antibiotics have evolved through the efforts of biotech and pharma companies, prokaryotic species have adapted in parallel, exchanging genetic information and optimizing effective methods to avoid therapeutic killing. In the last several decades, this concern has become more pronounced with the emergence of multidrug-resistant organisms in both community- and hospital-acquired infections, resulting in increased morbidity, mortality, and health-care expense. In this presentation, we will discuss the emergence of multidrug-resistant infections with a particular emphasis on the emergence and global spread of carbapenem-resistant Enterobacteraeae strains.

May 5, 2016  
10:00 AM or 3:00 PM ET

Register Now



## Quiz the Scientist

I am a vector-borne Phelbovirus that causes febrile infection. I am prevalent in regions around the Mediterranean Sea. Can you guess what I am?

[Click here for more clues.](#)

ATCC  
Puzzle

Test your

Publications

- [ATCC Culture Guides](#)
- [Synthetic Nucleic Acids](#)



microbial expertise with the ATCC puzzle!

[Download the puzzle](#)

Still puzzled?

[View the answers to last month's puzzle.](#)

for the Development and Evaluation of In Vitro Diagnostic Devices Designed to Detect Dengue, Chikungunya, and Zika

- Development and Use of Synthetic Molecular Standards for Dengue Virus Serotypes 1-4
- Synthetic Nucleic Acids



## Frequently Asked Questions

Q: Who can obtain Zika virus from ATCC?

A: Zika virus is classified as a biological safety level (BSL) 2 pathogen. In order to request Zika virus from ATCC, requestors and their institutions must demonstrate that they have appropriate facilities and safety programs (in accordance with Biosafety in Microbiological and Biomedical Laboratories (BMBL) guidelines) in place for the level of the material requested. Only qualified researchers and laboratories are eligible to order and receive Zika virus from ATCC.

[Have more questions?](#)

Quality Control

---

Assay Development

---

Multidrug Resistance

---

Microbiology Resources

---

View from the Petri Dish

ATCC - 10801 University Boulevard, Manassas, VA 20110

© 2016 American Type Culture Collection. The ATCC trademark and trade name, and any other trademarks listed in this publication are trademarks owned by the American Type Culture Collection unless indicated otherwise.

To receive emails from ATCC, please take a few minutes to update your profile [click here](#).

To Unsubscribe, [click here](#).

[Privacy Policy](#).

