

Creative Diagnostics Announces Enterovirus Mouse Model to Accelerate Drug and Vaccine Development

Creative Diagnostics launches its new Enterovirus Mouse Model platform for studying enterovirus infections.

NEW YORK, NY, UNITED STATES, September 16, 2025 /EINPresswire.com/ -- As an expert in providing solutions to assist virology and microbiology research, [Creative Diagnostics](#) has announced the launch of its new [Enterovirus Mouse Model](#) platform for studying enterovirus infections, including the highly pathogenic enterovirus 71, to expedite the development of effective drugs and vaccines. In addition, the company offers various preclinical research services to support enterovirus animal model studies.

The genus Enterovirus comprises a group of small, positive-sense RNA viruses and is divided into ten species of true enteroviruses and three species of rhinoviruses. Enterovirus 71 (EV71), also known as Enterovirus A71 (EV-A71), belongs to species group A of the Enterovirus genus within the Picornaviridae family. EV-A71 typically causes hand, foot, and mouth disease, as well as herpangina, which are self-limiting diseases. Its neurotropism for motor neurons in the spinal cord and brainstem, as well as other neurons, is mainly responsible for central nervous system damage.

These viruses cause the widest spectrum of severe and deadly epidemic diseases in higher vertebrates, including humans. Their ubiquitous distribution and high pathogenicity motivate an active search for countermeasures against enterovirus infections. Currently, there are no sufficiently effective drugs that target enteroviral diseases; thus, treatment is limited to supportive and symptomatic measures. Therefore, it is extremely urgent to develop drugs that directly affect enteroviruses and hinder their development and spread in infected organisms.

To comprehend the intricate mechanisms of enterovirus infection and develop effective interventions, advanced scientific tools are necessary for researchers and manufacturers. As a specialist service provider in infectious disease research, Creative Diagnostics offers enterovirus mouse models that provide invaluable resources for understanding the complexity of enterovirus infection. Its team assists clients in establishing ideal enterovirus infection mouse models by integrating techniques such as transgenic and gene knock-in approaches.

Creative Diagnostics continuously refines methodologies for constructing genetically modified

animal models with diverse receptor gene modifications. These models are standardized for the preclinical evaluation of vaccines and therapeutics, as well as for research into enterovirus immunopathological pathogenesis. These in vivo animal models offered include mouse models dependent on mouse-adapted EV71 strains, immunodeficient mouse models, and transgenic mouse models. These models are essential for characterizing and evaluating enterovirus neurovirulence, researching the precise mechanisms of enterovirus-mediated disease, and developing and evaluating experimental drugs and vaccines for treatment

In addition to the preclinical animal models that resemble the pathogenesis of enterovirus infection, Creative Diagnostics provides a comprehensive, custom-designed range of services to support enterovirus animal model studies. These services include the design and execution of studies, along with pathological analysis and immune response profiling. Creative Diagnostics also offers in vivo pharmacokinetic studies and pharmacodynamics/efficacy/toxicity evaluations. After each study, the company delivers interpretive data analysis and a summary report to clients.

Creative Diagnostics provides comprehensive support for enterovirus mouse model studies. By integrating scientific expertise, cutting-edge technology, and a commitment to ethical practices, the Creative Diagnostics team is dedicated to accelerating the discovery of novel therapeutic approaches and preventive strategies for enterovirus-related diseases.

For more information on these models and related innovative solutions, please visit <https://antiviral.creative-diagnostics.com/enterovirus-mouse-model.html>

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About Creative Diagnostics

Headquartered in New York, Creative Diagnostics is a consulting and experimental service provider specializing in virology and microbiology. The company provides comprehensive solutions to conquer obstacles in virology and microbiology research, from high-security infrastructure provision, biosafety regulation elucidation, to expert viral system assistance.

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