



TECHNOLOGY

Production of Novel Bovine Respiratory Syncytial Viruses from cDNAs

OVERVIEW

Bovine Respiratory Disease virus plays a major etiological role in the bovine respiratory disease. BRSV causes severe respiratory tract disease in calves and feedlot cattle leading to high morbidity and mortality. This disease is the single most important cause of disease in cattle. The disease caused by BRSV causes serious economic losses to the cattle industry. Economic losses in the U.S. cattle industry due to pneumonia have been estimated to be \$ 500 million. Current methods to use a vaccine against the respiratory ailments in calves have not been very successful.

A researcher at the College of Veterinary Medicine at the University of Maryland, using recent technological advances has developed a technique that makes it possible to design a genetically engineered live attenuated vaccine for BRSV infections. Also, the vaccine virus seed can be stored as cDNAs and thus production of uniform vaccines will be possible.

A patent is pending for this technology. For additional information please contact Gayatri Varma, Office of Technology Commercialization, University of Maryland, College Park, MD 20742. Phone (301) 405-3947. E-mail: gayatri@umd.edu.

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Additional Information

INSTITUTION

University of Maryland, College Park

PATENT STATUS

Patent(s) pending

LICENSE STATUS

Available for exclusive license

CATEGORIES

- Vaccines
- Biologics

EXTERNAL RESOURCES

- [US Patent 6,908,618](#)

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