

# Vaccine Candidates Against Johne's Disease

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**WARF: P05446US** 

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing potential vaccine candidates for Johne's disease.

### Overview

Johne's disease is a contagious, chronic and usually fatal wasting disease that primarily affects the small intestine of ruminants. It is a worldwide problem with no known treatment and infects 25 to 50 percent of dairy cattle in the United States. Although a vaccine for Johne's disease exists, it does not protect against severe infection or transmission of the disease.

#### The Invention

A UW-Madison researcher has developed potential vaccine candidates for Johne's disease. The disease is caused by the slow-growing bacterium Mycobacterium avium subspecies paratuberculosis, or M. paratuberculosis. The inventor identified several Mycobacterium strain-specific genes that may contribute to the pathogenicity of M. paratuberculosis. These genes could be used to design vaccines against pathogenic subspecies of M. avium, including M. paratuberculosis. In a recent study, vaccine preparations based on these sequences helped protect rodents against infection with M. paratuberculosis.

# **Applications**

· Prevention and treatment of Johne's disease

## **Key Benefits**

- · May enable the development of improved vaccines for Johne's diease
- · May lead to methods for preventing and treating Johne's disease in ruminants and Crohn's disease in humans, which may be linked to Johne's disease

## Additional Information

#### For More Information About the Inventors

Adel Talaat

#### **Related Intellectual Property**

- View Continuation Patent in PDF format.
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