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Identification, Characterization and

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Immunogenicity of an ...

The material that the macrophage acquired appears to include a *F. tularensis* bacterium based on shape and electron density. *F. tularensis* is typically identified in TEM images by of the characteristic electron translucent capsule

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surrounding the bacteria, which this bacterium lacks (Steele et al., 2013) (Example in Figure 5). The fragmentation of the bacterium and lack of capsule suggests that ...

Francisella Tularensis - an overview
| ScienceDirect Topics

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Abstract. *Francisella tularensis* is the causative agent of tularemia, a category A bioterrorism agent. The lipopolysaccharide (LPS) O antigen (OAg) of *F. tularensis* has been considered for use in a glycoconjugate vaccine, but conjugate vaccines tested so far

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have failed to confer protection
necessary against aerosolized
pulmonary bacterial challenge. .
When *F. tularensis* OAg was
purified under ...

Electrochemical detection of
Francisella tularensis ...

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Introduction "The causative agent of tularemia, *Francisella tularensis*, is one of the most infectious pathogenic bacteria known...." (Dennis et al 1.) The proximity of household pets and the current view that pets are "family members" within households 2

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place pet owners and the general public increasingly at risk for exposure to various zoonotic diseases.

First European report of Francisella tularensis subsp ...

La tularemia, o fiebre de los

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conejos, es una enfermedad infecciosa zoonótica, potencialmente grave causada por la bacteria *Francisella tularensis*. Endémica en Norteamérica, Europa y Asia. Reservorio: Animales infectados como roedores, liebres, ardillas, castores, aves, gatos,

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perros y especialmente los conejos.
Vectores: Artrópodos e insectos
(garrapatas, mosquitos). Huésped:
El ser humano.

A serological and molecular study
on Francisella ...
Tularemia case is diagnosed in

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Minnesota. On June 27, 2016, the Minnesota Department of Health (MDH) Public Health Laboratory (PHL) was notified of a suspected *Francisella tularensis* isolate cultured at a hospital laboratory. The isolate was confirmed as *F. tularensis* type B at MDH PHL by

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reverse transcription–polymerase chain reaction, culture, and direct fluorescent antibody testing.

Understanding the notorious infectivity of Francisella ...

Tularemia is a severe infectious disease in humans caused by the

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Gram-negative bacterium
Francisella tularensis (Ft). Because
of its low infectious dose, high
mortality rate, and the threat of its
large-scale dissemination in
weaponized form, development of
vaccines and immunotherapeutics
against Ft is essential. Ft

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lipopolysaccharide (LPS), which contains the linear graded-length saccharide ...

Epidemiological Review of
Francisella Tularensis: A Case ...
Learn more about tularemia, a
disease caused by the bacterium

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Francisella tularensis, known to infect animals and people. Skip directly to site content Skip directly to page options Skip directly to A-Z link. Centers for Disease Control and Prevention. CDC twenty four seven. Saving Lives, Protecting People.

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Tularemia | CDC

Francisella tularensis (Ft) is a category A biothreat agent for which there is no Food and Drug Administration-approved vaccine. Ft can survive in a variety of habitats with a remarkable ability to

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adapt to changing environmental conditions. Furthermore, Ft expresses distinct sets of antigens (Ags) when inside of macrophages (its in vivo host) as compared to those grown in vitro with Mueller ...

Glycoconjugate vaccine using a

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genetically modified O ...

1. Introduction. In Iran, tularemia is an emerging zoonosis, which causative agent is a gram-negative bacterium called *Francisella tularensis*, a pathogen reported in more than 250 animal species, including Lagomorphs, squirrels, a

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variety of rodents, birds and amphibians [].In addition to countries formerly belonging to the Soviet Union, tularemia has been reported in many regions of the USA ...

Evidence Suggesting That

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Francisella tularensis O-Antigen ...
Francisella tularensis is an aerobic,
gram-negative coccobacillus
causing tularemia, a zoonotic
infection primarily observed in the
Northern Hemisphere . The
bacterium can be transmitted via
direct contact with infected animals,

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arthropod bites, and by ingestion or inhalation.

Notes from the Field: Francisella
tularensis Type B ...

Francisella tularensis has been considered to express a capsular antigen but none has been isolated

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or characterized. We have developed a monoclonal antibody, 11B7, which recognizes the capsular polysaccharide of *F. tularensis* migrating on Western blot as a diffuse band between 100 kDa and 250 kDa.

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Francisella Tularensis (Tularemia)
Francisella tularensis, a Gram-negative, nonspore-forming, nonmotile, aerobic rod-shaped coccobacillus, is the causative agent of tularemia. Two distinct biovars are recognized: Francisella tularensis tularensis (type A), a

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highly virulent form and found only in North America, and a less virulent Francisella tularensis holarctica (type B), which is thought to be endemic throughout the Northern ...

A Typical Preparation of Francisella

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tularensis O -Antigen ...

Francisella tularensis is composed of a number of subspecies with varied geographic distribution, host ranges, and virulence. In view of these marked differences, comparative functional genomics may elucidate some of the

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molecular mechanism(s) behind these differences. In this study a shared probe m ...

Francisella tularensis enters a double membraned ...

"Understanding the notorious infectivity of Francisella tularensis:

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Fresh approach to an old problem yields clues to tularemia virulence." ScienceDaily. ScienceDaily, 9 November 2016. <www ...

Comparative Transcriptional Analyses of Francisella ...
Solid-phase isothermal DNA

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amplification was performed exploiting the homology protein recombinase A (recA). The system was primarily tested on maleimide activated microtitre plates as a proof-of-concept and later translated to an electrochemical platform. In both cases, forward

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primer for Francisella tularensis
holarctica genomic DNA was
surface immobilised via a thiol or
an amino moiety and ...

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Francisella tularensis is a

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pathogenic species of Gram-negative coccobacillus, an aerobic bacterium. It is nonspore-forming, nonmotile, and the causative agent of tularemia, the pneumonic form of which is often lethal without treatment. It is a fastidious, facultative intracellular bacterium,

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which requires cysteine for growth. Due to its low infectious dose, ease of spread by aerosol, and high ...

Francisella tularensis - Wikipedia
Francisella tularensis, the Gram-negative bacterium that causes tularemia, produces a high

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molecular weight capsule that is immunologically distinct from Francisella lipopolysaccharide but contains the same O-antigen tetrasaccharide. To pursue the possibility that the capsule of Francisella live vaccine strain (LVS) has a structurally unique lipid

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anchor, we have metabolically
labeled ...

Francisella tularensis bacteraemia
causing multi-organ failure
Francisella Tularensis (Tularemia)
Fact Sheet as PDF Introduction: F.
tularensis is considered to be a

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serious potential bioterrorist threat because it is one of the most infectious pathogenic bacteria known-inhalation of as few as 10 organisms can cause disease-and it has substantial capacity to cause serious illness and death.

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Differential Cultivation of
Francisella tularensis Induces ...
Francisella tularensis subsp.
holarctica is a select agent causing
life-threatening tularemia. It has
been isolated from humans and
animals, mainly lagomorphs and
rodents, rarely other wild carnivore

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species. Increasing numbers of human tularemia cases have been reported during the last 5 years in Switzerland. Here we report the first isolation of *Francisella tularensis* subsp. *holarctica* from ...

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