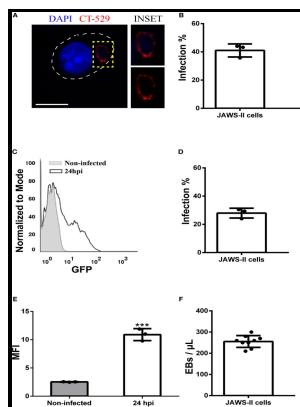


Identification and analysis of host cell responses to infection with Chlamydia trachomatis

University of Birmingham - Chlamydia infection promotes host DNA damage and proliferation but impairs the DNA damage response



Description: -

- Identification and analysis of host cell responses to infection with Chlamydia trachomatis
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Chlamydia trachomatis Infection Alters Host Cell Transcription in Diverse Cellular Pathways

We are currently investigating this mechanism experimentally.

Chlamydia infection promotes host DNA damage and proliferation but impairs the DNA damage response

Background Enteroendocrine cells EEC are highly specialized cells producing signalling molecules vital to the normal functions of the gut. As neutrophils are usually the first immune cells recruited to the site of infection, and are generally short-lived , , it is likely that the primary role for neutrophils is to reduce chlamydial infection and to limit it from spreading. In the under-25 age group in the UK 7—8% of men and women are infected.

Identification of immunodominant linear B

GABAA receptor-associated protein like 1 GABARAPL1 was up-regulated during persistent infection in both cell lines. The RNS in turn induces nitrosative stress, which adds to the pro-inflammatory burden of ROS. The infection state of the two sorted populations was confirmed using a polyclonal anti-chlamydial EB antibody.

Chlamydia trachomatis

Coverslips were mounted on microscope slides using Prolong Gold antifade reagent Invitrogen. Paradoxically, although there is strong evidence that NF_KB responses are inhibited in Chlamydia-infected cells *in vitro* ,,, animal and human studies indicate that a proinflammatory response is a hallmark of C.

Chlamydia trachomatis

The proteins were eluted into 5X SDS-PAGE sample buffer, separated by 12% SDS-PAGE gel for immunoblotting.

A review on infection with Chlamydia trachomatis

Indeed, it has been shown that macrophages within the testis exist in direct contact with Leydig cells, forming specialized contact sites known as digitations,. These nucleic acid amplification methods also are used to detect N. In order for Chlamydia to invade these cells, they must induce their uptake by actively remodeling the cortical actin cytoskeleton and manipulating the endocytic machinery to facilitate the phagocytosis of infectious elementary bodies EBs.

Chlamydia Trachomatis

The fourth involves the inhibition of activated STAT1 nuclear import and can be seen in infections by Ebola virus , porcine reproductive and respiratory syndrome virus and severe acute respiratory syndrome coronavirus. Reverse transcription was carried out in a 20- μ L reaction volume with final concentration of 1 \times first-strand buffer Life Technologies , 10 mM Cy3-dCTP or Cy5-dCTP, and 0.

Chlamydia Biology: From Genome to Disease

Antisera were diluted in PBS containing 5% guinea pig serum complement. The majority of infections are observed within the Western Pacific Region and the Region of the Americas. Sorting purity was evaluated using a polyclonal antibody against chlamydial EBs, which detects a protein that migrates ~17 kD.

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