



Unraveling Chlamydial Pathogenesis

Guest Editors:

Dr. Karthika Rajeev

1. Department of Biomedicine,
Aarhus University, 8000 Aarhus,
Denmark
2. Rajiv Gandhi Centre for
Biotechnology, Kerala 695585,
India

Dr. Cindrilla Chumduri

Biocenter, University Wurzburg,
97070 Wurzburg, Germany

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editors

Dear Colleagues,

Chlamydiae are evolutionarily adapted to an obligate intracellular lifestyle with a small genome of 1Mb. They invade the host cell and replicate in the host-derived intracellular vacuole. The phylum Chlamydiae have diverged into different species that have a wide range of hosts from mouse to human and a broad range of tissue tropism from the eyes to the genital tract. As a pathogen, this bacterium contributes to different disease pathologies: trachoma, pneumonia, pelvic inflammatory, and infertility. Moreover, the spontaneous development of inflammatory diseases like reactive arthritis (RA) has been observed after chlamydia infection. Chlamydia is also claimed as the etiological agent in the development of coronary artery disease and atherosclerosis. Most recently, persistent infection has also been related to the development of ovarian cancer.

In this Special Issue, we intend to cover a range of topics under the various pathogenicity mechanisms of Chlamydia: How the pathogen drives immunomodulation and remain undetected, how the bacteria contribute to different disease pathologies and how persistent infection might lead to malignancy in the infected tissue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lawrence S. Young

Warwick Medical School,
University of Warwick, Coventry
CV4 7AL, UK

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*General Immunology and Microbiology*)

Contact Us

Pathogens Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pathogens
pathogens@mdpi.com
[X@Pathogens_MDPI](https://twitter.com/Pathogens_MDPI)