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## Advances in the Research on *Porphyromonas gingivalis* Infection

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Deadline for manuscript  
submissions:

**closed (31 January 2024)**

### Message from the Guest Editors

Dear Colleagues,  
*Porphyromonas gingivalis*, a keystone pathogen implicated in severe forms of periodontitis, expresses various virulence factors, including fimbriae, cysteine proteinases, hemagglutinins, and lipopolysaccharides, that together support its pathogenicity and biofilm formation. *P. gingivalis* invades periodontal tissues by colonizing the gingival sulcus and proliferating in the subgingival plaque by regulating a panel of virulence factors. It evades the host defense mechanisms by deregulating innate immune and inflammatory responses. In addition, bacterial cells and their products can enter blood circulation and contribute to the development and severity of systemic diseases, such as diabetes, rheumatoid arthritis, cardiovascular diseases, and preterm delivery.

In this Special Issue, we invite all submissions (original research article, review article, or short communication) related to the pathogenesis of *P. gingivalis*, including not only the microbiological and cellular aspects of *P. gingivalis* infections but also its clinical, immunological, and methodological aspects.

*Guest Editor*

Yoshiaki Hasegawa

Kiyoshi Nishikawa



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# Special Issue



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## Editor-in-Chief

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## 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.

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