



Foot and Mouth Disease Virus and Novel Vaccines Developments

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Message from the Guest Editor

Dear Colleagues,

Foot-and-mouth disease (FMD) is a contagious vesicular disease caused by a highly variable RNA virus (FMDV) affecting cloven-hoofed animals with severe social and economic consequences worldwide. Chemically inactivated whole virus vaccines have been used to contain the disease, but are slow acting and do not always permit distinction between infected and vaccinated animals. New rapid vaccines and emergency response measures, such as therapeutics, need to be developed to allow for rapid containment of future FMDV outbreaks in addition to methods that distinguish between infected and vaccinated animals.

This Special Issue will cover FMDV determinant of replication and pathogenesis and how this information has facilitated next-generation FMDV vaccine and biotherapeutic developments. We particularly encourage the submission of manuscripts focused on improved control strategies addressing important gaps of the current inactivated FMDV vaccine including, but not limited to, duration of immunity, crossreactivity, correlates of protection, early protection, antigen load, immunization responses, and safer marker vaccines.





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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

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