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## ***Mycobacterium avium* Subspecies Paratuberculosis Infection in Ruminants—Agent, Disease, Diagnosis, and Control**

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### **Message from the Guest Editors**

Dear colleagues,

Paratuberculosis, or Johne's disease, caused by *Mycobacterium avium* subspecies *paratuberculosis* (MAP) infections, is spread worldwide and may provoke a major health problem in affected dairy, beef, and sheep herds, as well as in goat and red deer farming. Because the disease is untreatable in animals, strategic disease control is essential. The characteristics of the infectious agent, a specific pathogenesis with a long-lasting incubation period and the, to date, not completely understood interactions with the hosts immune system result in delayed humoral responses and delayed onset of fecal shedding, hampering early identification of infected animals and, consequently, control strategies.

Despite long-lasting research, there are still numerous knowledge gaps that motivate ongoing scientific activities regarding this disease. This Special Issue aims to gather high-quality original research and review articles that will be of interest to scientists working in this field. Its scope comprises all aspects of microbiology, immunology, diagnosis, epidemiology, and control of MAP infections in ruminants.

Dr. Karsten Donat  
Dr. Heike Köhler  
*Guest Editors*



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# Special Issue



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## Message from the Editor-in-Chief

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