

# Ph.D. Dissertation Presentation

## Studies on Mastitis Caused by Translocated- Bacterial Components in Ruminants

(反芻動物における細菌成分の移行による乳房炎に関する研究)

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Date : January 14, 2021 (Wed) 16:20~17:20

Place : Room C206

Mastitis is one of the most important diseases in ruminants. Knowledge of the causative pathogens is important to effectively control mastitis. Lipopolysaccharide (LPS), a Gram-negative bacterial component can translocate within the body and its presence can induce the inflammatory response, whereas the mechanism of its translocation is poorly understood. This study aimed to determine whether mastitis can be caused by bacterial components (LPS) through the endogenous pathway. The results of this study suggest that intrauterine-infused LPS can be translocated from uterus to the mammary glands and induced inflammatory response, particularly under the immunosuppressive condition.

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