P-XX

Ryo Nakao (Dep. of Collaboration and Education, CZC)

Studies on tick-borne zoonotic rickettsiosis

Development of LAMP assay for detection of Ehrlichia ruminantium

Purpose

✓ Development of rapid & sensitive detection method for *E. ruminantium*

Method

✓ LAMP: Loop-mediated isothermal amplification

Results

- √ 5 gene copies per reaction within 60 min
- ✓ No cross-reaction with other ehrlichial agents

A metagenomic survey of microbes in pathogen-transmissible ticks

Purpose

✓ Identification of bacterial symbionts in ticks

Method

✓ Pyrosequencing with the next generation sequencer

