Heritability of Immune Response to Paratuberculosis Infection. By Mortensen et al., page 2108. The heritability of the ability to establish an immune response to paratuberculosis was calculated based on antibody detection. A significant heritability of 0.10 was estimated, whereas the genetic correlation between milk production and antibody production was found nonsignificant. Transmission of paratuberculosis during pregnancy was found nonsignificant based on the methods used, indicating that only late-stage infection may result in this transmission route. It should be possible to create paratuberculosis indices for selection of cow’s ability to establish immunity against infection.