
By Gonda et al., page 1804. Johne’s disease, caused by *Mycobacterium avium* ssp. *paratuberculosis*, costs the US dairy industry $200 to $250 million annually. This study investigated the extent to which *M. paratuberculosis* infection is inherited within families of US Holsteins. Two diagnostic tests (fecal culture and serum ELISA) from 4,603 cows in 238 herds were used to measure inheritance of Johne’s disease susceptibility within primarily 12 sire families. Our results estimated that 10.2% of variation in *M. paratuberculosis* infection is inherited when classifying cows with either a positive fecal culture or ELISA = 0.25 as infected. These results provide evidence that it is possible to select cows for decreased Johne’s disease susceptibility.