

Abstract by Gary Evans - Enhancement of Bovine LD BeadChip and Bovine SNP50 for consolidation of genotype information and improved utility in different cattle breeds

Widespread BovineSNP50 genotyping of dairy bulls with high reliability EPDs and EBVs has led to development of genomic predictions and incorporation of genomic information into dairy cattle evaluations. Following official release of such evaluations in 2009, the design of a lower density GoldenGate Bovine 3K Genotyping BeadChip and development of imputation algorithms enabled cost effective genotyping of lower value animals. Recent development of the 7K Bovine LD Infinium BeadChip has led to further improvements and, since its introduction in September 2011, the 7K Bovine LD BeadChip has become widely adopted due to its improved genotyping robustness and enhanced imputation accuracy compared with the 3K GoldenGate array.