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Summary

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Potential and Pitfalls for Genomic Selection
Genomic Selection for Improved Fertility
with Emphasis on Cyclicity \u0026amp;

Pregnancy Use of genomic selection in
tropically adapted composite beef program
Genomics in the beef cattle industry

Dr. Kent Weigel \u0026amp; Dr. C. Michael
Cowan - Part 1, Genomic Selection of Dairy

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Cattle Genomic Selection In Dairy Cattle

Genomic selection has revolutionized dairy cattle breeding. Since 2000, assays have been developed to genotype large numbers of single-nucleotide polymorphisms (SNPs) at relatively low cost. The first commercial SNP genotyping chip was released with a set of 54,001 SNPs in December 2007.

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Genomic Selection in Dairy Cattle: The
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Application of Genomic Selection in
Females Genomic Testing. Many
progressive breeders are using genomic
testing for the majority of their cows and
heifers to... Advanced Reproductive

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Technologies. Once a breeder identifies genetically superior females using genomic testing, and... Sire Selection. ...

Genomic selection in dairy cattle:
Integration of DNA ...

A new technology called genomic selection is revolutionizing dairy cattle breeding.

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Genomic selection refers to selection decisions based on genomic breeding values (GEBV). The GEBV are calculated as the sum of the effects of dense genetic markers, or haplotypes of these markers, across the entire genome, thereby potentially capturing all the quantitative trait loci (QTL) that contribute to variation in a trait.

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Invited review: Genomic selection in dairy cattle ...

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A new technology called genomic selection is revolutionizing dairy cattle breeding.

Although the idea of... Accuracy of GEBV

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from Dairy Cattle Breeding Programs
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selection ...

Invited review: Genomic selection in dairy
cattle ...

Although genomic selection has allowed for
rapid acceleration of genetic progress, it has

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also resulted in a rapid accumulation of homozygosity in the dairy cattle population. Better understanding is needed to ensure that genetic progress is achieved while maintaining genetic variance.

Genomic selection in cows creates opportunities | Dairy ...

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Genomic selection uses DNA-based methods rather than progeny testing , and has been made possible by the bovine sequencing project and the associated development of powerful, low-cost genotyping tools (6, 7). Whatever the system, these procedures have been developed to improve returns for farmers by

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making farming systems more efficient, so it is not surprising that selection has been heavily weighted toward production traits that deliver more milk, or milk with a particular quality, e.g ...

The Ups and Downs of Genetic Selection in Dairy Cattle ...

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Cattle AQUAGENOME Applied Training
Workshop, Sterling Hans Daetwyler, The
Roslin Institute and R(D)SVS. Overview ...
Genetic Australia ' s 2003 progeny test team
with two genomic selection methods, BLUP
and a Bayesian method (BAYES). Trait
Records in reference population Number of

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SNPs used Sire pathway

Genomic Selection in Dairy Cattle
Dairy Cattle

The accuracy of genomic prediction of dry matter intake (DMI) and RFI has been estimated to be around 0.4 in beef and dairy cattle studies.

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Genomic selection for feed efficiency in dairy cattle

Genomic selection has increased the rate of improvement in economically important traits such as daughter pregnancy rate, productive life, and somatic cell score.

Progeny-tested sires remain in demand and

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continue to compete favorably with young genomic bulls, likely as a result of the critical mass of data generated via progeny test, which facilitates the accurate evaluation necessary for continued widespread use.

Genomic Selection Has Changed Dairy Sire Selection

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Sequencing the bovine genome has made genomic selection of dairy cows possible. Incorporating genomics into herd improvement schemes has markedly increased productivity and health traits. Rates of genetic change increased by 50 – 100% for milk production traits.

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Genomic Selection Accelerates
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Better understanding...
The USDA Experience

Genomic selection in dairy cows creates opportunities not ...

Review: Genetic and genomic selection as a methane mitigation strategy in dairy cattle - J. Lassen, G. F. Difford
Due to unplanned maintenance of the back-end systems

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supporting article purchase on Cambridge Core, we have taken the decision to temporarily suspend article purchase for the foreseeable future.

Review: Genetic and genomic selection as a methane ...

Genomic selection has been essential to

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improving dairy cattle around the world. It has helped to increase genetic diversity and increase the presence of traits with low heritability 6. Moreover, it has helped detect carriers of undesirable recessive characteristics 6.

Reproductive technology: genomic selection

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- Dairy Producer
The Usda Experience

Genomic selection (GS) has resulted in rapid rates of genetic gains especially in dairy cattle in developed countries resulting in a higher proportion of genomically proven young bulls being used in breeding. This success has been undergirded by well-established conventional genetic evaluation

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Frontiers | Genomic Selection and Use of Molecular Tools ...

Genomic selection in beef cattle. In some beef breeds, genomic selection is now applied on a large scale. For example, in the USA, more than 52,000 Angus animals have

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now been genotyped for GEBV evaluation (Lourenco et al., 2015). In general, however, accuracies of genomic predictions in beef cattle have been lower than in dairy cattle.

Genomic selection: A paradigm shift in animal breeding ...

One of the most important developments

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The U.S. Dairy Experience
resulting from the introduction of genomic testing for dairy cattle is the application of reasonably priced low-density single nucleotide polymorphism (SNP)...

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