2017-2018 for CDCB

• Extremely positive
  • Demand for services continues to increase
  • Many goals successfully achieved
  • Advances in policies and procedures
  • Objective handling of challenges
2019: Ten years of genomic evaluations in U.S.

The complete genome sequence of *Bos taurus* by the Bovine Genome Sequencing Consortium has been published in the April 24, 2009 issue of the journal *Science*.

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2019: Ten years of genomic evaluations in U.S.

Changes to evaluation system (January 2009)

Genomic evaluations become official

*By Paul VanRaden*, *George Wiggans*, *Tad Sonstegard†*, *Curt Van Tassel†*, and *Leigh Walton* *

*Animal Improvement Programs Laboratory, †Bovine Functional Genomics Laboratory*
Consequences of genomic selection

- Large reference populations closely connected to predicted individuals
- Drastic reduction in generation interval
- Early genotyping vs. progeny testing schemes
- Evaluation turnaround
Consequences of genomic selection

• Consolidation and concentration
• Genotyping: new business
• Phenotypes more valuable than ever
• Nucleus herds concentrate bull dams
• Genomics as a management tool

Consequences of genomic selection

• New products:
  • Parentage verification & discovery
  • Haplotypes & recessive mutations
  • Low heritable traits
  • Traits difficult to measure
What level of involvement do dairy farmers wish to have in U.S. dairy genetics moving forward?

Would we be content with moving toward a more integrated breeding program as in poultry or swine genetics?

What is the value of a cooperator database with performance, management and genomic data?

How can such database support optimal decision-making in dairy herds?
How do we leverage new technologies to provide performance data and phenotypes to the cooperator database?

How can we maintain sustainable genetic progress to satisfy dairy customers and consumers?
What is the importance of independent research and genetic evaluations to provide innovation and empower dairy farmers to shape their business models?
First steps

• CDCB Innovation Director - Javier Burchard
• CDCB & Innovation Center for U.S. Dairy: business plan to foster and coordinate U.S. research and development
• Direct investments in research and the generation of feed efficiency data
2019 EVENTS: MARK YOUR CALENDARS!

CDCB will host two symposiums to honor the first decade of genomic selection and foster an open dialogue about dairy genetics for the next decade and beyond.

- **Monday, February 25**, with Western Dairy Management Conference in Reno, Nev.
- **Monday, June 24**, in association with the American Dairy Science Association and Interbull meetings in Cincinnati, Ohio

Thank you!

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