

NAPB Commercial Plant Breeding Committee

Genomic Selection: An Industry Perspective Sponsored by NAPB-Commercial Breeding Committee in Collaboration with The NAPB Education Committee.

The webinar was held on March 27th, 2023, and the 2 presenters were David Habier, a senior research scientist from Corteva, and Dr. Hsiao Yi Hung a Research Scientist – Quantitative Geneticist from Driscoll's. Webinar was facilitated by Dr. Chibwe Chungu (formerly with BASF at the time of the workshop).

The fourth Behavioral Based Interview workshop was held on Oct 24th, 2023 at the University of Nebraska, Lincoln with support from Lauren Kruger, the Administrative Coordinator from UNL. The BBI workshop was facilitated by Klaus Koehler (Corteva) and Chibwe Chungu (Banyan Tree Skills Academy) in collaboration with Dr. Tala Awada, Associate Dean & Associate Director Agricultural Research Division Professor.

Panelist for BBI included Klaus Koehler (Corteva), John Gill (AgReliant), Makram Geha (Corteva) and Chibwe Chungu. We had very engaged participants that contributed to the success of the workshop. Feedback obtained from the participant survey was very positive and encouraging with some areas of improvement.

Webinar on Genomic Selection: An Industry Perspective by the NAPB-Commercial Breeding Committee in Collaboration with The NAPB Education Committee.

To gain insights into the industry's application of Genomic Selection (GS), two distinguished Research Scientists—Dr. David Habier from Corteva and Dr. Hsiao-Yi Hung, both recognized experts in quantitative genetics—were invited to share their expertise during the Webinar presentation

Dr. Habier's presentation concentrated on advancing the understanding of genomic predictions in plant breeding, with a particular emphasis on enhancing predictability of genomic predictions in plant breeding. The 3 key aspects of his presentation included the following:

- Partitioning of predictability into causal components
- Describing sources of information for accuracy
- Showing how to optimize accuracy

On the other hand, Dr Hung examined GS in Berries outlining the following:

- Practical consideration of implementing genomic predictions
- Technical consideration regarding polyploidy
- Application of genomic predictions in clonal propagated crops
- Strategies in genomic prediction



Genomic Selection from the Industry Perspective 1:0



The webinar garnered an impressive turnout and proved to be exceptionally enlightening, providing a comprehensive insight into how the two companies showcased their perspectives on utilizing GS. The organizing committee extends profound gratitude to David and Hsiao-Yi for their impeccable contributions, acknowledging their pivotal role in not only delivering valuable information but also sparking a multitude of engaging questions from the enthusiastic participants. The high level of interest in this webinar further underscores its significance of addressing the industry's pertinent concerns.

Youtube link to Webinar

https://www.youtube.com/watch?v=UJd_SAqLKh0&t=232s

Workshops on Behavioral Based Interview (BBI) held at University Nebraska, Lincoln

October 24th, 2023

The workshop was planned in collaboration with Lauren Kruger, Administrative Coordinator from UNL Agricultural Research Division, who played a pivotal role in its coordination. A total of 29 enthusiastic Graduate and Postdoc participants were actively engaged in the workshop.



Photo of UNL Graduate student and postdoc BBI workshop participants during a panel discussion, photos taken by Klaus Koehler

The workshop component of the NAPB Commercial Plant Breeding Committee (NAPB-CPBC) represents a vital ongoing initiative dedicated to the training and enlightenment of graduate students and postdoctoral researchers—our future plant breeders and scientists in the industry. The primary objective of NAPB-CPBC is to establish collaborative partnerships with universities, fostering an environment that actively supports and enhances the educational experiences of students and postdocs aspiring to pursue careers in the plant breeding industry. Through this initiative, NAPB-CPBC strives to provide invaluable resources and knowledge, ensuring that emerging professionals are well-equipped with the skills and insights necessary to excel in their future roles within the plant breeding sector.

The workshop participants demonstrated exceptional engagement, actively contributing to highly valuable discussions that significantly enriched the learning experience. The insights shared and exchanged during these discussions were instrumental in enhancing the overall understanding and knowledge acquisition of the participants.

Stay tuned for our next BBI Workshop in Spring of 2024