

ICAR/Interbeef Genomics Workshop – Agenda.

Date & Time	Item	Comments.
Monday 24 November, 1 PM – 6 PM	Optional trip to ICBF Tully performance test centre, Kildare and Weatherby's genotyping laboratory, Kildare. <i>Note: this trip will be repeated on Wednesday PM to facilitate people looking to travel into Ireland on Monday afternoon/evening.</i>	<ul style="list-style-type: none"> • Overview of the ICBF GENE IRELAND Maternal beef breeding program, including how the performance testing of commercial beef cattle integrates into the overall program. • Opportunity to visit the Weatherby's genotyping laboratory, one of the highest throughput SNP genotyping laboratories in the world.
Tuesday 25 November, 8.30 AM – 12.45	ICAR/Interbeef Genomics Workshop, Session 1. Theme; Learning from others. <i>Chairperson; Japie van der Westhuizen, SA Studbook & ICAR board member.</i>	<ul style="list-style-type: none"> • 8.30. Welcome & opening remarks. <i>Brian Wickham, ICAR/Interbeef.</i> • 8.35. Organizational challenges and opportunities of genomic application in future breeding programs: feedback from the dairy experience. <i>Julie Labatut, INRA, France.</i> • 9.00. Technical challenges and opportunities of genomics in beef cattle; some experiences from dairy cattle breeding. <i>Erling Standberg, Interbull Centre.</i> • 9.20. Outcomes from ICAR/Interbeef survey of members. Will include; (i) an overview of status of genomics within ICAR/Interbeef member countries, (ii) key challenges being faced by members in roll-out of genomic programs (technical, political & financial), and (iii) opportunities for collaboration in the future. <i>Eric Venot, INRA & Interbeef Technical Committee.</i> • 9.40. General discussion. • 10.15. Tea/coffee break. • 10.45. Application of beef genomics within a number of ICAR member countries, including opportunity for more in depth understanding and discussion (5 * 20 minutes). <ul style="list-style-type: none"> ○ Australia; Rob Banks, AGBU, Australia. ○ France; Florence Phocas, INRA, France ○ Sweden; Hans Stallhammer, Viking Genetics, Sweden. ○ Ireland; Francis Kearney, ICBF, Ireland. ○ North America; Dorian Garrick, Iowa State, US. • 12.15. General discussion. • 1.00 Lunch.
Tuesday 25 November, 2.00 PM – 6.00 PM	ICAR/Interbeef Genomics Workshop, Session 2. Theme; Understanding the key challenges. <i>Brian Wickham, ICAR/Interbeef.</i>	<ul style="list-style-type: none"> • 2.00. Break-out workshops; Key national and international challenges to be identified, including reporting back. <i>(Challenge areas to be identified from responses to ICAR/Interbeef questionnaire).</i> • 3.15. Tea/coffee break. • 3.45. Break out workshop; Feedback.

		<ul style="list-style-type: none"> • 4.45. Free communication session I; application of genomics within national and international evaluations of beef cattle (4 * 10 minute talks). <ul style="list-style-type: none"> ○ “Progress on the establishment of a reference population for genomic selection in South African Bonsmara cattle”, Lydia Bosman, University Pretoria, South Africa. ○ “Using genomics to genetically improve Video Image Analysis (VIA) carcass traits in the UK Limousin population”. Kirsty Moore, SRUC, Scotland. ○ “Genome-wide association study for calving performance using HD genotypes in dairy and beef cattle”. Deirdre Puirfield, Teagasc, Ireland. ○ “Implementation of genomic selection in Uruguay”. Elly Ana Navajas, INIA, Uruguay. ○ “The Canadian Cattle Genome Project, John Crowley, University Alberta, Canada. • 5.30. General discussion & wrap-up. • 6.00. Close session.
Tuesday 25 November, 7.30 PM	ICAR/Interbeef Dinner.	<ul style="list-style-type: none"> • Kindly co-sponsored by event sponsors; ICAR, Illumina, Weatherby’s, Irish Cattle Breeding Federation and Irish Farmers Journal.
Wednesday 26 November, 8.30 AM – 12.30 PM.	ICAR/Interbeef Genomics Workshop, Session 3. Theme; Identifying solutions and moving forward. <i>Chairperson; Andrew Cromie, ICBF & Chairman Interbeef.</i>	<ul style="list-style-type: none"> • 8.30 AM. Free communication session II; application of genomics within national and international evaluations of beef cattle (6 * 10 minute talks for the session). <ul style="list-style-type: none"> ○ “Low density panels for dairy and beef cattle”. Michelle Judge, Teagasc, Ireland. ○ “Genomic pre-selection tool of beef ability for the 3 main beef breeds in France”, Romain Saintilan UNCEIA. ○ “Research on developments of international beef genetic evaluations for calving traits”. Zdenka Vesela, Institute of Animal Science, Prague, Czech Republic. ○ “Use of cross-bred data in international genetic evaluations”. Thierry Pabiou, ICBF. • 9.45 AM. Future genetic improvement programs; open question session for “key” thinkers; Dorian Garrick, Iowa State, Esa Mantysarri, MTT Finland, Theo Meuwissen, UMB Norway & Roel Veerkamp, WUR, the Netherlands. • 10.45 AM. Tea & coffee. • 11.15 AM. Open discussion forum to help establish next steps for ICAR/Interbeef and genomics; moving forward collectively. • 12.30. Close of workshop, including lunch.
Wednesday 26	Interbeef technical meeting.	<ul style="list-style-type: none"> • Meeting for members of the Interbeef technical committee.

November, 1.30 PM – 3.30 PM		
Wednesday 26 November, 4.00 PM – 6.00 PM	Interbeef working group meeting.	<ul style="list-style-type: none"> Meeting for members of the Interbeef working group (one of main objectives will be to deal with outcomes from workshop).
Wednesday 26 November, 1.00 PM – 6.00 PM	Optional trip to ICBF Tully performance test centre, Kildare and Weatherby's genotyping laboratory, Kildare (<i>Note: this event will be a repeat of the event run on Monday, to facilitate people looking to travel in on Monday afternoon/evening.</i>)	<ul style="list-style-type: none"> Overview of the ICBF GENÉ IRÉLAND Maternal beef breeding program, including how the performance testing of commercial beef cattle integrates into the overall program. Opportunity to visit the Weatherby's genotyping laboratory, one of the highest throughput SNP genotyping laboratories in the world.
Wednesday 26 November, 7.30 PM	Illumina Dinner.	<ul style="list-style-type: none"> Kindly sponsored by Illumina for people attending the Illumina workshop on Thursday 27 November.
Thursday 27 November, 9.30 AM – 4.00 PM	Optional Illumina "scientific summit"; The potential of sequence data for future genetic improvement programs.	<ul style="list-style-type: none"> This first ever Illumina "scientific summit" has been organised to run directly after Interbeef meeting (in the same venue). It will be designed specifically for those participants interested in understanding the potential role and application of sequence data in future genetic improvement programs.