Barbados Joint Workshop

Germplasm & Breeding and Molecular Biology

Dates: 9–13 November 2026 | Location: Barbados, WICSCBS

Monday, 9 November

Theme: Germplasm Diversity Phenotyping and Enviromics

Time	Session / Activity	Chair(s)
08:30 – 09:00	**Registration**	—
09:00 – 10:30	**Opening Ceremony** Chairman of WICSCBS, Research Director of WICSCBS	—
10:30 – 11:00	*Coffee Break*	—
11:00 – 11:30	**GB · Terajima et al.** Miscanthus hybridization for low-temperature adaptation	Danilo Cursi
11:30 – 12:00	**GB · Sushir et al.** Erianthus for climate-resilient varieties	Danilo Cursi
12:00 – 12:30	**GB · Pinto et al.** RIDESA Global Germplasm Exchange	Danilo Cursi
12:30 – 13:30	*Lunch*	—
13:30 – 14:00	**GB · Baisakh et al.** Genetic Evaluation of the West Indies Central Sugarcane Breeding Station Germplasm Collections	Danilo Cursi
14:00 – 15:00	**Discussion 1** **Variety Exchange**	Andrew Stoute
15:00 – 15:30	*Coffee Break*	—
15:30 – 16:00	**GB · Wang et al.** SPCane-YOLOv8 for high throughput stalk phenotyping	Andrew Stoute
16:00 – 16:30	**GB · Alvarenga et al.** Enviromics for predicting yield of sugarcane genotypes under restrictive environments	Andrew Stoute

Tuesday, 10 November

Theme: Genomic Selection Databases and Variety Notes

Time	Session / Activity	Chair(s)
08:30 – 09:30	**Plenary Keynote: Lee Hickey** The Predictive Breeding Toolkit: What's Working, What's Next and What It Means for Sugarcane	George Piperidis, John Riascos
09:30 – 10:00	**MB · Racedo et al.** Genomic selection and parental distance for family prediction	Olivier Garsmeur
10:00 – 10:30	**MB · Rio et al.** Genomic prediction across breeding populations	Olivier Garsmeur
10:30 – 11:00	*Coffee Break*	—
11:00 – 11:30	**MB · Ali and Rouse** Genetic diversity, population structure and QTL	Olivier Garsmeur
11:30 – 12:30	**Discussion 2** **Implementing Genomic Selection Challenges**	Francisca Perera, John Riascos
12:30 – 13:30	*Lunch*	—
13:30 – 14:00	*Networking / Flexible Time*	—
14:00 – 14:30	**GB · Carrasco et al.** Cross planning and germplasm traceability	Marvellous Zhou
14:30 – 15:00	**GB · Pachter et al.** Breedbase in the Florida–Barbados breeding program	Marvellous Zhou
15:00 – 15:30	**GB · Hulse-Kemp et al.** Sugarcane Trait Ontology and harmonized phenotype descriptors	Marvellous Zhou
15:30 – 16:00	*Coffee Break*	—
16:00 – 17:00	**Discussion 3** **Variety Notes**	George Piperidis
18:00	**Coach to WIRD for ISSCT Dinner**	—
18:30	**ISSCT dinner**	—

Wednesday, 11 November

Field Tours & Social Program

07:30	**Departure from hotel**
Morning	**WICSCBS Field Tour**
12:30 – 13:30	*Group Lunch*
Afternoon	**Rum Distillery Tour**

Thursday, 12 November

Theme: Genome Structure Traits and Breeding Prediction

Time	Session / Activity	Chair(s)
09:00 – 09:30	**MB · Piperidis et al.** Oligo-FISH and chromosome transmission	Nathalie Piperidis
09:30 – 10:00	**MB · Zhu et al.** Female restitution and unreduced gametes	Nathalie Piperidis
10:00 – 10:30	**MB · Abdallah et al.** Chromosome pairing, haplotype mapping and cytogenetics	Nathalie Piperidis
10:30 – 11:00	*Coffee Break*	—
11:00 – 11:30	**MB · Aitken et al.** Genetic control and NIR phenotyping of biomass	Francisca Perera
11:30 – 12:00	**MB · Umeda et al.** Markers, pathogen quantification and RNA-seq for smut resistance	Francisca Perera
12:00 – 12:30	**MB · Echeverry-Rubiano et al.** GWAS for Diatraea resistance	Francisca Perera
12:30 – 13:30	*Lunch*	—
13:30 – 14:00	**GB · Rouse et al.** Restructuring Florida Sugarcane Variety Breeding and Selection to Drive Innovation	Jean-Yves Hoarau

Time	Session / Activity	Chair(s)
14:00 – 14:30	**GB · Zhou** Genetic gains and breeding program efficiency	Jean-Yves Hoarau
14:30 – 15:00	**GB · Kimbeng** Family merit from historical advancement records	Jean-Yves Hoarau
15:00 – 15:30	**GB · Orozco and Quemé** Cultivar replacement and sugar yield trends in Guatemala	Jean-Yves Hoarau
15:30 – 16:00	*Coffee Break*	—
16:00 – 17:00	**Discussion 4** **Integrating Sugarcane Genomic Knowledge**	Olivier Garsmeur, Nathalie Piperidis

Friday, 13 November

Theme: Transformation Editing and Breeding Applications

Time	Session / Activity	Chair(s)
08:30 – 09:00	**MB · Hernandez-Garcia et al.** Transformation and multi-allelic CRISPR platforms	John Riascos
09:00 – 09:30	**MB · Garcia et al.** CRISPR HDR targeting ALS for herbicide tolerance	John Riascos
09:30 – 10:00	**MB · Pinoti et al.** Prime editing, ALS editing and ScGAI deletions	John Riascos
10:00 – 10:30	*Coffee Break*	—
10:30 – 11:00	**MB · Enrique et al.** HAHB11 transgenic sugarcane for drought tolerance	John Riascos
11:00 – 11:30	**MB · Sun et al.** Physiological and Molecular Mechanisms of ScVDE- and ScZEP-Mediated High Photosynthetic Efficiency	John Riascos
11:30 – 12:00	*Contingency*	—
12:00 – 13:00	*Lunch*	—
13:00 – 13:20	**ISSCT Presentation: Mike Butterfield** Organization and Outlook for the 2028 Congress	—
13:20 – 14:20	**Business Meeting**	—
14:20 – 14:35	**Closing Remarks**	—