



IV MULTI-OMIC INTEGRATION FOR AI GENOMIC PREDICTION BREEDING

PROGRAM

July 06-10, 2026 | Gainesville, FL

<https://agronomy.ifas.ufl.edu/moiai/>



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WI-FI INFORMATION
Network: ufguest



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Name Badge

Your name badge serves as your admission to all networking functions, so be sure to wear it throughout the short course.

WELCOME ATTENDEES!

Thank you for joining us for the IV Multi-Omic Integration for AI Genomic Prediction Breeding Short Course!

Dear Participants,

It is my great pleasure to welcome you to the **4th Multi-Omic Integration for AI Prediction Breeding Short Course**, taking place July 6–10, 2026, at the **UF-NVIDIA Malachowsky Data Science & Technology Hall**. We are truly excited to have you join us for this unique opportunity to explore the latest advances at the intersection of genomics, multi-omics, and artificial intelligence in breeding.

This state-of-the-art facility provides an inspiring environment for learning, collaboration, and innovation. We are proud to host this short course in a space that reflects the cutting-edge nature of the research and applications we will explore throughout the week.

We are especially grateful for the generous support of our sponsors. We would like to extend our sincere thanks to **Bayer** at the **Gold Level**, **Prime Agri Resources** at the **Silver Level**, and **Fall Creek Nursery**, **GDM Seeds** and **Living Models** at the **Bronze Level**, as well as **Heritable Agriculture** as a **contributor** to the course. We would also like to offer special thanks to **Dr. David Norton, Vice President for Research at the University of Florida**, and to acknowledge **Dr. John Davis, Associate Dean for Research at UF/IFAS**, for his continued support of the short course. Their support is a reflection of how strongly these organizations and leaders understand the importance of investing in this frontier of research and innovation. Their partnership plays a vital role in making this short course possible and in advancing the future of AI-driven breeding. We also wish to recognize **Dr. Jason Ferrell, Chair of the UF/IFAS Agronomy Department**, for his steadfast support of this short course.

This year's program features an exceptional lineup of speakers and instructors, bringing expertise from academia and industry. Their insights will provide you with both foundational knowledge and practical perspectives on multi-omic integration and AI-based prediction methods. We encourage you to actively engage, ask questions, and connect with fellow participants to maximize your experience.

Thank you for being part of this exciting event. We look forward to a stimulating, collaborative, and impactful short course.

Sincerely,



Diego Jarquín

On behalf of the organizing committee

GUEST SPEAKERS



Dr. John Davis

Associate Dean for Research
UF/IFAS Office of The Dean For Research

John leads the research enterprise at UF/IFAS, supporting faculty in Gainesville and at our research and education centers who address challenges facing agriculture, natural resources and human systems. He also oversees operations at the Plant Science Research and Education Unit and the Ordway-Swisher Biological Station.

John Davis specialized in forest ecosystem health, tree-pathogen coevolution, forest genomics, and is tenured in the School of Forest, Fisheries, and Geomatics Sciences. He earned his Ph.D. in plant breeding and genetics-forestry from Michigan State University in 1989 and has been a faculty member in UF/IFAS since 1992. Prior to serving in the Dean for Research Office, he maintained a 60 percent research, 20 percent teaching, and 20 percent administrative appointment since 2011. In March 2016, he transferred to the Dean for Research Office as Associate Dean and in February 2024 he became Interim Dean and Director of Florida Agricultural Experiment Station.



Dr. Jason Ferrell

Professor & Department Chair
UF/IFAS Agronomy Department

Dr. Ferrell joined the University of Florida as an Assistant Professor in 2004 with responsibilities in weed management and herbicide stewardship. In the time since, he has attained the rank of Associate Professor (2009) and Professor (2014). Dr. Ferrell became the Director of the UF/IFAS Center for Aquatic and Invasive Plants in 2017 where he helps coordinate and promote invasive plant research and extension activities throughout the state. In 2019 to 2024, he served as Director of the UF/IFAS Pesticide Information Office which directs pesticide licensing/testing and extension outreach activities for pesticide safety and compliance. In 2024, he was named Chair of the Agronomy Department and provides direction to 36 faculty programs located across 8 statewide units.

COURSE INSTRUCTORS



Dr. Diego Jarquín

Assistant Professor
UF/IFAS Agronomy
Integration and Application of AI and Omics
in Plant Breeding

One of the biggest challenge of the humanity is to ensure the current and future food supply chain of a growing population in a world that is facing more often and extreme environmental variations. The contributions of Dr. Jarquín research program are relevant to the society because these are helping to the development of improved (more productive, resistant to biotic and abiotic stress, etc.) genotypes by the integrating artificial intelligence (AI) methods and multi-omics analyses in plant breeding. Dr. Jarquín's program is focused on the development of interpretable AI methods and related disciplines (biostatistics, quantitative genetics, and modeling) that can be applied to large multi-omics data sets for providing solutions to complex plant breeding and plant systems biology questions.



Dr. Hiroyoshi Iwata

Professor
Biometry and Bioinformatics
University of Tokyo

Dr. Hiroyoshi Iwata is a Professor in the Graduate School of Agricultural and Life Sciences at the University of Tokyo, where he leads research in biometrics, bioinformatics, and quantitative genetics. He earned his B.A., M.A., and Ph.D. in Agriculture from the University of Tokyo, where he developed a strong interdisciplinary foundation spanning statistics, genetics, and data science.

Dr. Iwata's research focuses on advancing crop genetic improvement through the integration of statistical modeling, genomic analysis, and emerging data-driven technologies. His work applies methods from biometrics, population genetics, and information science to better understand complex biological systems and accelerate plant breeding.

A central theme of his research is the development of innovative approaches for genomic prediction and phenomics, including the use of high-throughput data such as genomic, environmental, and imaging datasets. By combining these data sources with machine learning and optimization techniques, his work aims to improve the accuracy and efficiency of breeding programs and support sustainable increases in agricultural productivity.



Dr. Charlie Messina

**Professor & Director of Crop
Transformation Center
UF/IFAS Horticultural Sciences
Predictive Breeding**

Charlie Messina is Professor in the Department of Horticultural Sciences at the University of Florida. His teaching and research program focuses on how to harmonize crop improvement and AI efforts for agricultural systems to regenerate the environment while providing nutrition security, improve human health and adapt to climate change. His team evaluates and applies novel prediction methods and systems within operational breeding programs. During his tenure at Corteva Agriscience he contributed to the development of drought tolerant maize in the U.S. and Brazil, which is now grown in >10MM acres.



Dr. Paulino Pérez-Rodríguez

**Professor
Statistics and Data Science
Colegio de Postgraduados**

Dr. Pérez-Rodríguez did his MS and Doctoral degrees in Statistics from the Colegio de Postgraduados, México. In 2011/12 he completed a 1-year postdoc at the University of Wisconsin-Madison under the supervision of Dr. Daniel Gianola and in 2012/2013 he became a visiting scholar at the Section on Statistical Genetics of the Biostatistics Department of University of Alabama at Birmingham where he worked in collaboration with Dr. Gustavo de los Campos. In 2019/2020 he was a visiting scholar at the Epidemiology and Biostatistics of Michigan State University where he worked in collaboration with Dr. Gustavo de los Campos. Dr. Pérez-Rodríguez has a vast experience as an industry consultant both in plant and animal breeding. Currently he is a Professor of Colegio de Postgraduados in México in the department of Statistics and Data Science. His research interests include Statistical computing, Bayesian statistics, high throughput computing and software development for prediction of complex traits in plants and animals.



Dr. Niranjn Baisakh

**Associate Professor
Functional Genomics
Louisiana State University**

Dr. Niranjn Baisakh is an Associate Professor in the School of Plant, Environmental and Soil Sciences at the Louisiana State University Agricultural Center, where he leads an innovative research program in plant molecular biology and functional genomics. His work focuses on developing a comprehensive understanding of the genetic and molecular mechanisms that govern plant responses to environmental stressors, with the overarching goal of improving agronomic performance in major crop species.

Dr. Baisakh's research integrates molecular biology, genomics, and biotechnology to investigate how crops respond to abiotic stresses such as drought and salinity. By studying these processes at the tissue, cellular, and molecular levels, his work identifies key genetic networks and physiological pathways that contribute to stress tolerance.

A central component of his program is translating fundamental discoveries into practical tools for crop improvement. His team applies approaches such as genetic engineering, functional genomics, and marker-assisted breeding to develop climate-resilient crops with enhanced productivity and adaptability. These efforts span multiple crops, including rice, sugarcane, and other economically important species, supporting both food and bioenergy systems.



Dr. Hsiao-Yi Hung

**Quantitative Geneticist
Driscoll's Inc**

Dr. Hsiao-Yi Hung is a quantitative geneticist at Driscoll's. He received his Ph.D. in plant breeding and genetics from North Carolina State University. His research focuses on experimental design, quantitative/statistical genetics, genetic evaluation and statistical modeling. He has been working on implementing prediction framework in various crops for more than ten years



Dr. Léonard Strouk

**Co-Founder & CTO
Living Models**

Dr. Leonard Strouk is Co-Founder and Chief Technology Officer at Living Models | Programming Life with AI. Trained as a biochemist, his work began with a focus on understanding life at the molecular level. He later transitioned toward artificial intelligence to apply that foundational knowledge in practical and transformative ways.

At Living Models, Dr. Strouk develops advanced computational systems designed to read, interpret, and ultimately improve biological processes. His work sits at the intersection of deep scientific inquiry and cutting-edge AI, where he focuses on building models that bridge fundamental biology with real-world applications.

Dr. Strouk is driven by the belief that the most impactful innovations emerge at the boundary of disciplines. By integrating biochemistry with frontier AI technologies, he is dedicated to advancing how we understand and shape the living world.



Dr. Julián García-Abadillo

**Postdoctoral Assistant
Quantitative Gen., GxE, AI**

Dr. Julián García-Abadillo is a quantitative geneticist with a background in biotechnology (BSc) and Artificial Intelligence (MSc). His expertise is on the use of predictive models for plant breeding applications, including genomic selection, genotype-by-environment interactions, and multi-omics integration. He is also interested in trait prediction from a machine learning standpoint, particularly in the interpretability and usability of models in real-world scenarios. He is the current maintainer of CHiDO, a platform for multi-omics integration in genomic selection pipelines.



Dr. Jorge Hidalgo

Assistant Professor
University of Georgia
Animal Breeding and Genetics

Dr. Jorge Hidalgo focuses on the application and development of statistical methods for large-scale genomic evaluations in livestock populations. The most advanced breeding programs gather millions of pedigrees, genotypes, and phenotypes, leading to more accurate prediction of the animals' genetic merit and a deeper understanding of the genetic basis of production, health, and efficiency traits. The data dimensionality also brings computational challenges, making the development of more efficient statistical methods and their application crucial. Specific research topics include 1) genomic evaluation for crossbred and beef on dairy populations, 2) genetic analysis of categorical traits (diseases, mortality, calving ease, etc.), 3) genetic analysis including social interaction models, and 4) genomic evaluations for heat tolerance.



Dr. Vincent Cabeli

Research Scientist
Living Models

Dr. Vincent Cabeli is an AI researcher and computational biologist with a PhD in causal inference, supported by interdisciplinary training in both biology and computer science. His research focuses on leveraging data-driven approaches to better understand complex diseases and improve the efficiency and effectiveness of drug discovery pipelines.

Dr. Cabeli's work lies at the intersection of artificial intelligence and quantitative biology, where he develops methods to extract meaningful insights from large-scale biological data. He is particularly driven by the potential of these approaches to translate into tangible advances in patient outcomes. Through his research, he aims to bridge theory and application, advancing tools and methodologies that can make a real impact in biomedical science and healthcare.



Dr. Caio Canella Vieira

**Assistant Professor
University of Arkansas
Soybean Breeding and Genetics**

Dr. Caio Canella Vieira is an Assistant Professor of soybean breeding at the University of Arkansas, currently leading the University's soybean breeding program. Before joining the University of Arkansas, Dr. Canella Vieira obtained his master's and Ph.D. in Plant Breeding, Genetics, and Genomics at the University of Missouri. He was involved in the development and release of over 20 soybean cultivars in Missouri and led the modernization of the soybean breeding program by prioritizing the use of data analytics and prediction models. His program in Arkansas targets the development and release of high-yielding conventional and herbicide-tolerant soybean cultivars with broad biotic and abiotic stressors tolerance, as well as improved seed composition. The program puts efforts into identifying and incorporating economic-important traits from genetically diverse accessions into modern, high-yielding genetic backgrounds. Substantial efforts are also made on maximizing the efficiency of the soybean breeding program through the implementation of genomic prediction and high-throughput phenotyping strategies throughout all stages of the pipeline.



Ms. Sehijpreet Kaur

**Ph.D. Student
Graduate Research Assistant
University of Florida/IFAS**

Sehijpreet Kaur is a Ph.D. student in the Agronomy Department at UF/IFAS. Her research focuses on plant breeding and quantitative genetics, with an emphasis on integrating genomic prediction, high-throughput phenotyping, and artificial intelligence to accelerate crop improvement.

Her work explores the use of advanced statistical and of dynamic (temporal traits) machine learning models to enhance selection accuracy in breeding programs, particularly through the integration of multi-omics data and hyperspectral remote sensing technologies. She has contributed to research applying AI-driven approaches to crop systems such as strawberries, wheat, and potatoes, aiming to improve genetic gain and optimize agricultural productivity. She is a 2025 NAPB Borlaug Scholar, reflecting her commitment to advancing innovation in plant breeding and agricultural sciences.



Dr. Iván M. Ayala-Díaz

Research Assistant
Corporación Centro de Investigación en Palma
de Aceite (CENIPALMA)

Dr. Ivan M. Ayala-Diaz is a plant breeding leader at the Colombian Center for Oil Palm Research (CENIPALMA), where he leads research efforts focused on improving crop performance through the integration of plant physiology, conventional breeding, and genomic tools. With over two decades of experience in applied agricultural research, his work has significantly contributed to advancing oil palm breeding and supporting the sustainability and productivity of the agricultural sector. Dr. Ayala-Diaz earned his Ph.D. in Plant Breeding and Crop Physiology from Iowa State University and holds a degree in Agronomy from the Universidad Nacional de Colombia. His research emphasizes the development of more efficient and resilient cultivars, combining biological insight with modern data-driven approaches to address real-world challenges in crop production.



Dr. Shatabdi Deb Proma

Research Assistant
Genomic Prediction | Multi-Omics
UF/IFAS Agronomy

Dr. Shatabdi Deb Proma from the University of Florida conducts research at the intersection of genomic prediction, multi-omics integration, and the application of artificial intelligence to improve crop performance across diverse environments.

Her current research explores the use of advanced statistical and machine learning models to predict the performance of crops such as *Miscanthus* in multi-environment trials, with the goal of increasing selection efficiency in perennials and accelerating genetic gain in breeding programs. Driven by a strong interdisciplinary background spanning animal science, genomics, and data science, Shatabdi Deb Proma is committed to developing innovative, data-driven methodologies that enhance crop improvement and contribute to sustainable agricultural systems.



Dr. Joshua A. Sleper

Quantitative Genetics & Breeding
UF/IFAS Strawberry Breeding Program

Dr. Sleper is a quantitative genetics researcher in the Horticultural Sciences Department at the University of Florida. He has worked on the UF/IFAS strawberry breeding team since 2023 leading efforts to improve genomic selection capabilities and develop phenomics-aided breeding methods. Prior to his work at UF, he worked for a decade in industry, heading the development of a global genomic selection breeding pipeline for maize and leading a breeding technology team exploring new methods to optimize plant breeding processes. A major focus of his research is developing high-throughput methods to improve genetic gain and bringing his industry experience in maize breeding to the UF strawberry breeding program.



Dr. Mark Porter

Strawberry Molecular Genetics
UF/IFAS
Gulf Coast Research and Education Center

Dr. Mark Porter is a Postdoctoral Researcher at the University of Florida, specializing in strawberry molecular genetics within the Strawberry Breeding Program. His research focuses on understanding the genetic and biochemical mechanisms underlying fruit quality traits, with particular emphasis on flavor compounds and their role in crop improvement.

Dr. Porter's work bridges molecular biology and applied breeding, integrating laboratory research with field-based evaluation to support the development of high-quality, high-performing crop varieties. His interdisciplinary background and commitment to translational research continue to contribute to advancements in horticultural science and sustainable agriculture.

Detailed Agenda

Monday, July 6, 2026

**THE MALACHOWSKY HALL FOR DATA SCIENCE & INFORMATION TECHNOLOGY
NVIDIA-MALACHOWSKY AUDITORIUM**

7:30AM–8:15AM

Registration

8:30AM–8:40AM

Welcome and Introduction from Dr. Ferrell Chair of the Agronomy Department, and Associate Dean for Research at UF/IFAS Dr. John Davis

8:40AM–9:50AM

Before You Genomic Predict: Experimental Design and Data Analysis
Dr. Hsiao-Yi Hung

9:50AM–10:10AM

AM Break

10:10AM–11:30AM

Intro to Genomic Selection (GS) - and Genomic Prediction (GP) Models (Bayesian Alphabet)
Dr. Paulino Pérez-Rodríguez

11:30AM–1:00PM

Lunch on your Own

1:00PM–2:20PM

From Genomic Prediction to Bayesian Optimization: Reinterpreting GBLUP for Efficient Genetic Resource Exploration
Dr. Hiroyoshi Iwata

2:20PM–2:40PM

PM Break

2:40PM–4:00PM

Application of Subgenome and Epistatic Genomic Selection Models in the University of Florida Strawberry Breeding Program; and Utilization of Sparse Testing and Environmental Covariates to Build Genomic Selection Models for Sensory Traits in Strawberry.
Dr. Mark Porter & Dr. Joshua A. Sleper

6:00PM–9:00PM

Social Event

Tuesday, July 7, 2026

**THE MALACHOWSKY HALL FOR DATA SCIENCE & INFORMATION TECHNOLOGY
NVIDIA-MALACHOWSKY AUDITORIUM**

8:30AM–9:50AM	G×E Prediction Models Using Weather Data / G×E markers <i>Dr. Julián García-Abadillo, Dr. Diego Jarquín</i>
9:50AM–10:10AM	AM Break
10:10AM–11:30AM	Bayesian Factor Analytic and Other Covariance Structures, Multi-Trait Multi-Environment Strategies <i>Dr. Paulino Pérez-Rodríguez</i>
11:30AM–1:00PM	Lunch on your Own
1:00PM–2:20PM	AI Methods for Genomic Prediction I (Introduction to Machine Learning and RKHS) <i>Dr. Julián García-Abadillo</i>
2:20PM–2:40PM	PM Break
2:40PM – 4:00PM	GS in Major Crops (Soybean) <i>Dr. Caio Canella-Viera</i>
6:00PM-9:00PM	Social Event

Wednesday, July 8, 2026

**THE MALACHOWSKY HALL FOR DATA SCIENCE & INFORMATION TECHNOLOGY
NVIDIA-MALACHOWSKY AUDITORIUM**

8:30AM–9:50AM

AI Methods for Genomic Prediction II (Random Forest and Deep Learning)
Dr. Julián García-Abadillo, Dr. Diego Jarquín

9:50AM–10:10AM

AM Break

10:10AM–11:30AM

Using Sparse Matrices in BGLR for Analysis of Field Experiments
Dr. Paulino Pérez-Rodríguez

11:30AM–1:00PM

Lunch on your Own

1:00PM–2:20PM

Real Life Implementations: Sparse Testing Designs, Conditional Sampling SSD, and Spatial Analysis for GS.
Dr. Diego Jarquín, Dr. Julián García-Abadillo

2:20PM–2:40PM

PM Break

2:40PM–4:00PM

Sugarcane Genomics, GWAS, and GS – from Prediction to Practice
Dr. Niranjan Baisakh

6:00PM–9:00PM

Social Event

Thursday, July 9, 2026

**THE MALACHOWSKY HALL FOR DATA SCIENCE & INFORMATION TECHNOLOGY
NVIDIA-MALACHOWSKY AUDITORIUM**

8:30AM–9:50AM	CHiDO, Multi-Omic Integration, Hybrid Prediction <i>Dr. Julián García-Abadillo, Dr. Diego Jarquín</i>
9:50AM–10:10AM	AM Break
10:10AM–11:30AM	Developments in ssGBLUP and ssGWAS I <i>Dr. Jorge Hidalgo</i>
11:30AM–1:00PM	Lunch on your Own
1:00PM–2:20PM	Developments in ssGBLUP and ssGWAS II <i>Dr. Jorge Hidalgo</i>
2:20PM–2:40PM	PM Break
2:40PM–4:00PM	Genomic Selection for Perennials and Repeated Measures <i>Drs. Iván M. Ayala-Díaz, Shatabdi Deb Prama and Ms. Sehjpreet Kaur</i>
6:00PM–9:00PM	Social Event

Friday, July 10, 2026

**THE MALACHOWSKY HALL FOR DATA SCIENCE & INFORMATION TECHNOLOGY
NVIDIA-MALACHOWSKY AUDITORIUM**

8:30AM–9:50AM	Implementing Predictive Breeding Pipeline with Publicly Available Software - Echidna <i>Dr. Hsiao-Yi Hung</i>
9:50AM–10:10AM	AM Break
10:10AM–11:30AM	DSSAT / Crop Growth Models and AI <i>Dr. Charlie Messina</i>
11:30AM–1:00PM	Lunch on your Own
1:00PM–2:20PM	From Genotype Selection to Cross Optimization: Predicting Progeny Segregation for Data-Driven Breeding <i>Dr. Hiroyoshi Iwata</i>
2:20PM–2:40PM	PM Break
2:40PM–4:00PM	Foundation Models for Plant Biology <i>Dr. Léonard Strouk and Dr. Vincent Cabeli</i>
6:00PM–9:00PM	Social Event



PRESENTATIONS TIME

**Sessions are listed in
chronological order**



Before You Genomic Predict: Experimental Design and Data Analysis

Monday, July 6, 2026 | 8:40AM - 9:50 AM



**Dr. Hsiao-Yi Hung
Driscoll's**



Intro to Genomic Selection (GS) - and Genomic Prediction (GP) Models (Bayesian Alphabet)

Monday, July 6, 2026 | 10:10AM - 11:30AM



**Dr. Paulino Pérez-Rodríguez
Colegio de Postgraduados
Mexico**



From Genomic Prediction to Bayesian Optimization: Reinterpreting GBLUP for Efficient Genetic Resource Exploration

Monday, July 6, 2026 | 1:00PM - 2:20PM



Dr. Hiroyoshi Iwata
University of Tokyo



Application of Subgenome and Epistatic Genomic Selection Models in the University of Florida Strawberry Breeding Program; and Utilization of Sparse Testing and Environmental Covariates to Build Genomic Selection Models for Sensory Traits in Strawberry.

Monday, July 6, 2026 | 2:40PM - 4:00PM



Dr. Joshua A. Sleper
UF/IFAS



Dr. Mark Porter
UF/IFAS



G*E Prediction Models Using Weather Data/G*E Markers

Tuesday, July 7, 2026 | 8:30AM - 9:50AM



Dr. Julián García-Abadillo
UF/IFAS



Dr. Diego Jarquín
UF/IFAS



Bayesian Factor Analytic and Other Covariance Structures, Multi-Trait, Multi-Environment Strategies

Tuesday, July 7, 2026 | 10:10AM - 11:30AM



Dr. Paulino Pérez-Rodríguez
Colegio de Postgraduados
Mexico



AI Methods for Genomic Prediction I (Introduction to Machine Learning and RKHS)

Tuesday, July 7, 2026 | 1:00PM - 2:20PM



Dr. Julián García-Abadillo
UF/IFAS



GS in Major Crops (Soybean)

Tuesday, July 7, 2026 | 2:40PM - 4:00PM



Dr. Caio Canella Vieira
University of Arkansas



AI Methods for Genomic Prediction II(Random Forest and Deep Learning)

Wednesday July 8, 2026 | 8:30AM - 9:50AM



**Dr. Julián García-Abadillo
UF/IFAS**



**Dr. Diego Jarquín
UF/IFAS**



Using Sparse Matrices in BGLR for Analysis of Field Experiments

Wednesday, July 8, 2026 | 10:10AM - 11:30AM



Dr. Paulino Pérez-Rodríguez
Colegio de Postgraduados
Mexico



**Real Life Implementations:
Sparse Testing Designs,
Conditional Sampling SSD, and
Spatial Analysis for GS**

Wednesday, July 8, 2026 | 1:00PM - 2:20PM



**Dr. Diego Jarquín
UF/IFAS**



**Dr. Julián García-Abadillo
UF/IFAS**



Sugarcane Genomics, GWAS, and GS - From Prediction to Practice

Wednesday, July 8, 2026 | 2:40PM - 4:00PM



Dr. Niranjan Baisakh
Louisiana State University



CHiDO, Multi-Omic Integration, Hybrid Prediction

Thursday, July 9, 2026 | 8:30AM - 9:50AM



Dr. Julián García-Abadillo
UF/IFAS



Dr. Diego Jarquín
UF/IFAS



Developments in ssGBLUP and ssGWAS I

Thursday, July 9, 2026 | 10:10AM - 11:30AM



**Dr. Jorge Hidalgo
University of Georgia**



Developments in ssGBLUP and ssGWAS II

Thursday, July 9, 2026 | 1:00PM - 2:20PM



**Dr. Jorge Hidalgo
University of Georgia**



Genomic Selection for Perennials and Repeated Measures

Thursday, July 9, 2026 | 2:40PM - 4:00PM



Dr. Iván M. Ayala-Díaz
CENIPALMA-Colombia



Dr. Shatabdi Deb Proma
UF/IFAS



Ms. Sehijpreet Kaur
UF/IFAS



Implementing Predictive Breeding Pipeline with Publicly Available Software - Echidna

Friday, July 10, 2026 | 8:30AM - 9:50 AM



**Dr. Hsiao-Yi Hung
Driscoll's**



DSSAT / Crop Growth Models and AI

Friday, July 10, 2026 | 10:10AM - 11:30AM



**Dr. Charlie Messina
UF/IFAS**



From Genotype Selection to Cross Optimization: Predicting Progeny Segregation for Data-Driven Breeding

Friday, July 10, 2026 | 1:00PM - 2:20PM



**Dr. Hiroyoshi Iwata
University of Tokyo**



Foundation Models for Plant Biology

Friday, July 10, 2026 | 2:40PM - 4:00PM



Dr. Léonard Strouk
Living Models



Dr. Vincent Cabeli
Living Models

ADDITIONAL INFORMATION

Internet Access

To access Internet in the meeting space, follow these instructions on your device:

1. Connect to the network “ufguest”
2. You will be directed to the UF Guest Network Acceptable Use Policy.
3. Click on "Accept AUP and Connect"

Name Badge

Your name badge serves as your admission to all functions while attending the short course.

Breaks & Lunches

Mid-morning and afternoon breaks provide an opportunity to stretch legs and use bathroom. A full, 90-minute lunchtime on your own on Monday through Friday at the Reitz Union.

Cell Phones, Mobile Devices, Tablet Devices

Please mute your cell phones, laptops, tablets, and mobile devices while in the meeting room. Please respect the instructors' wishes not to share certain sensitive data on social media. Please do not photograph or share on social media.

Lost & Found

If you lose or find an article, check with the onsite registration staff.

Code of Conduct

All meeting participants must agree to follow our Code of Conduct when they register. We welcome you to join, sustain, foster, and help grow our inclusive and supportive environment.

Medical Emergency and Safety Information:

In the event you experience any type of emergency, please dial 911 to summon medical assistance or to contact authorities.

Thank you Sponsors!

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Bronze Sponsors



Contributor



Special Thanks to: our Volunteers



Netta Abdou

Samuel Flores Galarza

Carolina Vendrame



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