

AG2PI Goat Research Summit at PVAMU
Where: Cooperative Agricultural Research Center (CARC)
& International Goat Research Center (IGRC), PVAMU
When: June 12-14, 2023

Day 1: June 12		
Arrival		
Day 2: June 13		
8:00 am - 9:00 am	Registration and breakfast (CARC Room 004)	
9:00 am – 9:15 am	Welcome remarks	Dr. Gerard D’Souza Dr. Erdogan Memili Dr. William Foxworth
9:15 am - 10:15 am	Morning discussion: Working Group Objectives and Deliverables	
10:15 am - 10:30 am	Morning break	
10:30 am - 12:00 pm	AG2PI Goat Research Symposium (CARC Room 015)	
	Building a Goat Pan-Genome	Dr. Ben Rosen, USDA ARS
	The Farm Genotype-Tissue Expression Project in Goats	Dr. George Liu, USDA ARS
	AGF Activities Regarding Vaccines for Goats	Mr. Tom Boyer, American Goat Federation
	Modulatory Effect of Non-coding RNAs on Goat Immune Response and Productivity: Discovery of New Markers	Dr. Lanre Morenikeji, University of Pittsburgh at Bradford
	Nutritional Mitigation of Enteric Methane Emissions for Sustainable Ruminant Production Systems	Dr. Joseph McFadden, Cornell University
12:00 pm - 1:00 pm	Lunch	
1:00 pm - 2:00 pm	Tour of CARC Core Laboratories	Dr. Selamawit Woldesenbet
2:00 pm - 2:15 pm	Afternoon break 1	
2:15 pm – 3:15 pm	Afternoon discussion: Collaboration and funding opportunities	
3:15 pm - 3:30 pm	Afternoon break 2	
3:30 pm - 5:00 pm	Tour of IGRC and Farms	Dr. William Foxworth Dr. Juan Romano
5:00 pm - 7:00 pm	Dinner and networking	
Day 3: June 14		
8:00 am - 12:00 pm	One-on-one meeting with CARC scientists	
12:00 pm	Departure	

AG2PI Goat Together Working Group Meeting

- **Goat Genome to Phenome Working Group Objectives**
 - Create a network of researchers from diverse disciplines and multiple institutions to bridge the knowledge gaps in goat genome to phenome research.
 - Discuss goat (pan)genome, (pan)epigenome, and GoatGTE_x.
 - Discuss key hurdles in implementing genomic selection in American dairy and meat goats to ensure food security in the US and the world.
 - Explore multi-omics approaches to study economically important traits in goats.
 - Explore systems approaches to study soil, plants, and animals in goat research.
 - Broaden our group to include experts from diverse disciplines, industry and goat producers.
 - Build upon existing resources and identify emerging precision phenotyping technologies needed to improve goat sustainability and resilience.
 - Exploit the phenotypic database at the IGRC.
 - Identify emerging precision phenotyping technologies needed to improve goat sustainability and resilience.
- **Goat Genome to Phenome Working Group Deliverables**
 - A database that includes the rich phenotypic data that has been generated at the IGRC;
 - A strategic plan to integrating genomics and phenomics technologies to study goat feed efficiency, methane emission, and in-pen environmental indicators and relate that with goat sustainability and resilience to climate change;
 - List of resources needed to study soil, plants, and animals in a systems approach to address goat sustainability and climate change;
 - A clear picture of current progress and future directions in goat (pan)genome, (pan)epigenome, and GoatGTE_x research;
 - A better understanding of challenges and opportunities in implementing genomic selection in American dairy and meat goats;
 - Better knowledge of emerging precision phenotyping technologies that can be used by researchers and goat producers to improve goat sustainability and resilience;
 - A community of scientists, extension specialists, technology translators, and industry stakeholders with concerted efforts in delivering knowledge and technology to underrepresented goat producers.