## **The Brahman Project**

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Objectives

Population Structure

Data and Tissue Sampling

Genetic and Genomic Evaluation

**Culling, Mating, and Selection** 

**Research and Expected Outcomes** 

## **Origin of the Brahman Project**

Series of meetings at STARS in Brooksville at the end of 2009 and beginning of 2010

First Meeting: November 2009 Florida Producers UF Faculty & Administrators USDA-ARS Scientists & Administrators

Three Other Meetings: December 2009 to May 2010 USDA-ARS Scientists and UF Faculty Texas A&M Faculty NMSU, LSU, and USDA-MARC Scientists



## The Other Three Meetings ...

### **Technical Meetings**

Objectives of the Brahman Project Structure of the Population Construction of the Brooksville Brahman Herd Pedigree, Phenotypic, and Genotypic Data Collection Tissue Sample Collection and Storage Database Storage and Management Genetic and Genomic Evaluation Mating, Culling and Selection Assessment of Genetic Change Research Areas and Expected Outcomes

#### Origin of the Brahman Project

## Objectives

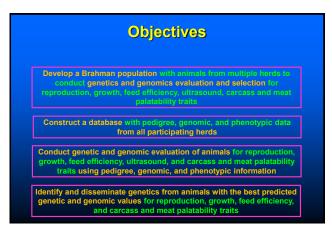
Population Structure

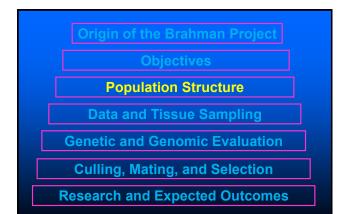
Data and Tissue Sampling

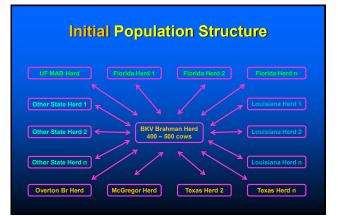
Genetic and Genomic Evaluation

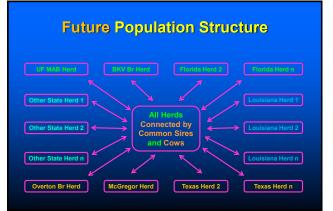
Culling, Mating, and Selection

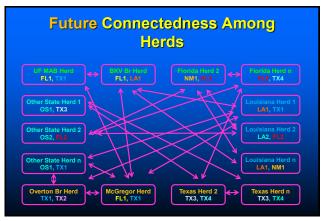
**Research and Expected Outcomes** 











Year	Sire Reg #	Sire Name	Herd of Origin	State
2010				
2010				
2010	800995	JDH MR MANSO 236/3	J.D. HUDGINS-FORGASON DIV.	
2010	854694	MR TAES 6087	TEXAS A & M UNIVERSITY	
2010				
	832506	KCC EMPEROR DUBO	KEMPFER CATTLE COMPANY	
	306428			
	877366	SCD DIDOR ESTO 623	D BAR RANCH	
				NM
				NM
	295806	JDH MULHIM EMP MANSO	J.D. HUDGINS-LOCKE DIV.	
	800995	JDH MR MANSO 236/3	J.D. HUDGINS-FORGASON DIV.	
	829894	MR TAES 3040	TEXAS A & M UNIVERSITY	
		MSP SPECIAL RELOAD 945	PARTIN & PARTIN HEART BAR RANCH	
2011	863297	MR TAES 7145	TEXAS A & M UNIVERSITY	
2013	783104	REP IMPRA MANGUM 370	UF MULTIBREED HERD	
2013	804549	KCC SUTTON DUBO 135	KEMPFER CATTLE COMPANY	
2013	816797	REP WALTER MANSO	UF MULTIBREED HERD	FL
2013	778115	MR.SUNLAND 6X 874	NEW MEXICO STATE UNIVERSITY	NM
2013	845544	NMSU 6X CLOVERDALE 5129	NEW MEXICO STATE UNIVERSITY	NM
2013	862754	NMSU GARRETT MANSO 7057	NEW MEXICO STATE UNIVERSITY	NM
2013	871628	NMSU DUBO CHERRA 45/1	NEW MEXICO STATE UNIVERSITY	NM
2013	586630	EJL EMPER SUVILLE 176	DAVID HUSFELD-SANTERLAND RANCH LTD. CO	ТХ
2013	809856	MSP ESTO CHERRA 754	PARTIN & PARTIN HEART BAR RANCH	ТХ
2013	851136	MSP SPECIAL RELOAD 945	PARTIN & PARTIN HEART BAR RANCH	ТХ

	Natural	Service Sires Used in Br	ooksville from 2009 to 201	2
Year	Sire Reg #	Sire Name	Herd of Origin	State
2009	857614	BB MR WEST BERCH 508	BARTHLE BROTHERS RANCH	н.
2009	842143	STARS 03-048	STARS	R.
2009	856461	TH BURMA BEN 182-04	TREASURE HAMMOCK RANCH	FL.
2010	856461	TH BURMA BEN 182-04	TREASURE HAMMOCK RANCH	R.
2010	828050	JCC DAK Charley 109/1	DOUBLE C BAR RANCH	
2011	894378	STARS 09-212	STARS	
2011	863297	MR TAES 7145	TEXAS A & M UNIVERSITY	
2012	864628	KCC 272 OF 185-176	KEMPFER CATTLE COMPANY	
2012	863297	MR TAES 7145	TEXAS A & M UNIVERSITY	тх
2012	890628	MR. TAES 0107	TEXAS A & M UNIVERSITY	тх

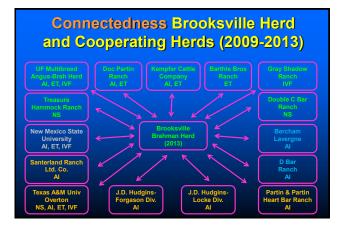
Years Used [AI,ET,IVF]	Sire Reg #	Name	Herd	State
	794506	REP SIR MANSO MANGUM 420	DOC PARTIN RANCH	
2011	832506	KCC EMPEROR DUBO	KEMPFER CATTLE COMPANY	
2013	783104	REP IMPRA MANGUM 370	UF MULTIBREED HERD	
2013	816797	REP WALTER MANSO	UF MULTIBREED HERD	
2010, 2011	306428	+BL LITTLE BOZO 1/8	BERCHMAN LAVERGNE	LA
2011	877366	SCD DIDOR ESTO 623	D BAR RANCH	LA
			NEW MEXICO STATE UNIVERSITY	NM
2011, 2013	862754	NMSU GARRETT MANSO 7057	NEW MEXICO STATE UNIVERSITY	NM
2013	778115	MR.SUNLAND 6X 874	NEW MEXICO STATE UNIVERSITY	NM
2013	871628	NMSU DUBO CHERRA 45/1	NEW MEXICO STATE UNIVERSITY	NM
2010, 2011	863297	MR TAES 7145	TEXAS A & M UNIVERSITY	ΤХ
2010, 2011	800995	JDH MR MANSO 236/3	J.D. HUDGINS-FORGASON DIV.	тх
2011, 2013	851136	MSP SPECIAL RELOAD 945	PARTIN & PARTIN HEART BAR RANCH	тх
2011	295806	JDH MULHIM EMP MANSO	J.D. HUDGINS-LOCKE DIV.	тх
2011	829894	MR TAES 3040	TEXAS A & M UNIVERSITY	тх
2010	854694	MR TAES 6087	TEXAS A & M UNIVERSITY	тх
2013	586630	EJL EMPER SUVILLE 176	DAVID HUSFELD-SANTERLAND RANCH LTD. CO	тх
2013	809856	MSP ESTO CHERRA 754	PARTIN & PARTIN HEART BAR RANCH	тх

[NS] Sire	Usage	by State, Year, and	I Herdfrom 2009 to 2012	
Years Used [NS]	Sire Reg #	Name	Herd	State
2009, 2010	856461	TH BURMA BEN 182-04	TREASURE HAMMOCK RANCH	
2009	857614	BB MR WEST BERCH 508	BARTHLE BROTHERS RANCH	
2009	842143	STARS 03-048	STARS	
2010	828050	JCC DAK Charley 109/1	DOUBLE C BAR RANCH	
2011	894378	STARS 09-212	STARS	
2012	864628	KCC 272 OF 185-176	KEMPFER CATTLE COMPANY	
2011, 2012	863297	MR TAES 7145	TEXAS A & M UNIVERSITY	тх
2012	890628	MR. TAES 0107	TEXAS A & M UNIVERSITY	тх

Number	rs of Bra	hman Fo	emales by l	Herd of Ori	igin and A	ge
Herd of origin	Repro System	Cows	2-Year Olds	Yearlings	Calves	Total
Barthle Bros Ranch						
Brooksville	ET					
Doc Partin Ranch	ET					16
Kempfer Ranch	ET					2
Texas AgriLife	ET				12	12
Total		75	11	26	54	166

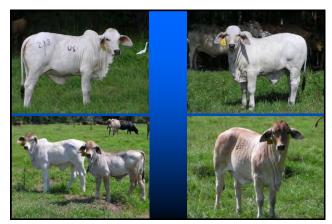
and Year of Mating <sup>1</sup>										
Herd of origin	2010	2011								
Barthle Bros Ranch		3 (4)								
Brooksville		2 (5)								
Doc Partin Ranch		3 (4)								
Kempfer Ranch										
Texas AgriLife		8 (9)								
Gray Shadow Ranch		0 (3)								
Total		16 (25)								

	Natural Se	rvice Mating	s for 2012	
				Total
Heifers (Yearling)		26		26
Cows	38	12	36	86
Total	38	38	36	112















Origin of the Brahman Project
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Research and Expected Outcomes

## **Data Collection and Storage 1**

Pedigree Data Complete pedigree file with information on all animals (calves, sires, and dams) from all experimental and private herds in the population

#### Phenotypic Data 1

Reproduction: age at puberty, calving interval Growth: calf weights at birth, pre-weaning, weaning, yearling, post-yearling; cow weights, condition scores

### **Data Collection and Storage 2**

Phenotypic Data 2 Feed Efficiency: postweaning weights, feed intake, water intake, residual feed intake, feed conversion ratio Temperament: pen score, exit velocity Ultrasound: ribeye area, intramuscular fat, backfat

Phenotypic Data 3 Carcass: carcass weight, dressing percent, ribeye area, marbling, backfat thickness Meat Palatability: shear force, tenderness, connective tissue, juiciness, flavor, off-flavor

## Where and What Data?

Multibreed Angus-Brahman Herd Contributing Experiment Stations (TX, LA) Private Herds

All Herds: phenotypes that are part of herd management (e.g., calving dates, calf and cow weights)

Some Herds (Funding Permitting): feed efficiency, carcass, and meat palatability traits

Realistic Objective Collect as much data as feasible at each location

## **UF Feed Efficiency Facility**

NFREC GrowSafe FE Facility, Marianna, FL AdjPeriod: 21 d; Trial: 70 d Pens: 24; Calves/pen: 14 - 16

Intake: Feed, Water (Real time) Growth: Dates, weights, Hip Ht (2 wk) Temperament: Chute Score, Exit Vel (2 wk) Ultrasound: UREA, UIMF, UBF



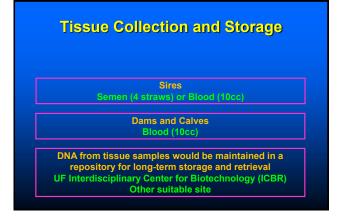












## Genomic Analysis of Tissue Samples

#### Provided that funding is available

DNA samples will be analyzed using available commercial genotyping chips Illumina 50K, HD (770K), and LD (7K) GeneSeek

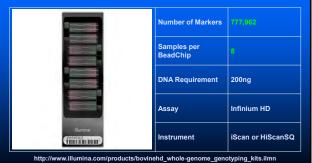
UF ICBR

Genotypic data would be added to the pedigree and phenotypic data to conduct genetic and genomic evaluation of animals in the Brahman population

# Illumina BovineSNP50 v2 BeadChip



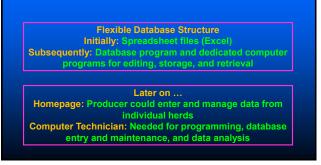
## Illumina BovineSNPHD BeadChip



# Illumina BovineLD BeadChip

Number of Markers	6,000
Samples per BeadChip	24
DNA Requirement	200ng at 50 ng/ul
Assay	Infinium HD Ultra
Instrument	iScan, HiScanSQ, or BeadArray Reader

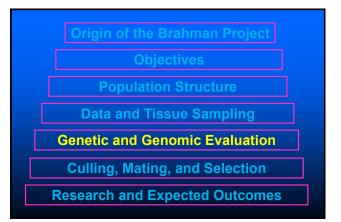
## **Data Storage and Processing**



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				CALF	CALF	(B or	BREED		EASE	OF	CALF	WEIGHT	CODE	
						Recip]	GROUP		SCORE	CALVES				
	14	1.3	e 1											
	ET RECIP	2012	2120008	862754	814999	2090275	Brahman	11/24/2011	1	1	1	84	1	Barthle Brothers Ranch
	ET RECIP	2012	2120009	800995	829732	2090032	Brahman	11/25/2011	1	1	2	88	1	Barthle Brothers Ranch
	ET RECIP	2012	2120010	862754	814999	2090108	Brahman	12/12/2011	1	1	2	58	1	Barthle Brothers Ranch
	ET RECIP	2012	2120019	863297	749993	2010401	Brahman	12/25/2011	1	1	2	80	1	Texas AgriLife (Charles Long
	ET RECIP	2012	2120030	829894	784926	2010308	Brahman	12/31/2011	1	1	2	50	1	Texas AgriLife (Charles Long
	ET RECIP	2012	2120033	829894	863316	2020083	Brahman	1/1/2012	1	1	2	80	1	Texas AgriLife (Charles Lon,
	ET RECIP	2012	2120075	804549	843798	2050447	Brahman	1/22/2013	1	1	2	80	1	Doc Partin Ranch
	ET RECIP	2012	2120081	306428	807072	2020348	Brahman	1/26/2013	1	1	1	64	1	Brooksville
	ET RECIP	2012	2120085	800995	762417	2020018	Brahman	2/1/2013	1	1	1	72	1	Gray Shadow Ranch
	ET RECIP	2012	2120091	832506	755082	2030206	Brahman	2/6/2013	1	1	2	68	1	Doc Partin Ranch
	ET RECIP	2012	2120095	863297	842145	2030112	Brahman	2/6/2013	1	1	2	62	1	Brooksville
	ET RECIP	2012	2120098	845544	840556	2030197	Brahman	2/8/2013	1	1	1	72	1	Dec Partin Ranch
		2012	2120099	845544	840556	2030247	Brahman	2/8/2013		1	2	68	1	<b>Doc Partin Ranch</b>
					755082	2030076	Brahman	2/9/2013		1	1	68	1	Doc Partin Ranch
	ET RECIP	2012	2120100	832506										
	ET RECIP		2120100	832506	755082	2030167	Brahman	2/9/2012	1	1	2	80	1	Doc Partin Ranch
	ET RECIP	2012				2030167 2020164	Brahman Brahman	2/9/2013		1	2	80 64	1	Doc Partin Ranch Brooksville

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F				CALF	CALF		EASE	OF	CALF	WEIGHT	CODE	CODE	DIED	FOR		
L							SCORE	CALVES						DEATH		
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F	AINS	2012	2120089	2077145	2000348	2/3/2012	1	1	1	70	1	1				
	AINS	2012	2120047	2077145	2010229	1/7/2012	1	1	1	68	3		1/7/2012	9		
	AINS	2012	2120147	2077145	2020066	3/30/2012	1	1	2	62	1	1				
	AINS	2012	2120145	2077145	2020068	3/27/2012	1	1	2	78	1	1				
	AINS	2012	2120139	2077145	2020147	3/5/2012	1	1	1	78	1	1				
	AINS	2012	2120088	2077145	2020150	2/2/2012	1	1	1	64	1	1				
	AINS	2012	2120138		2020188	3/4/2012	1	1	1	82	1	1				
	AINS	2012	2120043	2090212	2020315	1/7/2012	1	1	2	74	1	1				
	AINS	2012	2120146			3/28/2012	1	1	1	94	1	1				
	AINS	2012	2120065		2020404	1/17/2012	1	1	2	56	1	1				
	AINS	2012			2020452			1	1	82	1	1				
	AINS	2012		2077145		3/12/2012	1	1	1	70	1	1				
	AINS	2012	2120114		2030089	2/14/2012	1	1	1	80	1	1				
	AINS	2012	2120134		2030123	2/24/2012		1	1	96	1	1				
	AINS	2012	2120148		2030470	4/2/2012	1	1	1	74	1	1				
	AINS	2012		2070312		1/8/2012	1	1	1	58	1	1				
		2012	2120036	2060253		1/1/2012	1		2	60	1					

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4	C	E	Æ	AS	AT	AU	AV	AW	AY	AZ	BA	BB	BC	BD
	SUBHERD	YEAR	COW ID	DATE	AI SIRE	AI SIRE	DATE	DATE	NS SIRE	NS	NS SIRE	NS SIRE NAME	DATE NS	DATE NS
			LB or	EMBRYO	NUMBER	NAME	All	A12	GROUP	BREED	NUMBER		SIRE IN	SIRE OUT
			Recip)	TRANSFER						GROUP				
	AINS	2012	2000348	-			-		2077145	Brahman		MR TAES 7145	-	
	AINS	2012	2000348						2077145 OnaSire	Brahman	2077145	MR TAES 7145 KCC 272 OF 185-176	3/26/2012	
	AINS	2012	2010229						OnaSire	Brahman		KCC 272 DF 185-176	3/26/2012	
	AINS	2012	2020066						2077145		2077145	MR TAES 7145	3/26/2012	
	AINS	2012	2020068						OnaSire	Brahman		KCC 272 OF 185-176	3/26/2012	
	AINS	2012	2020147						2077145	Brahman		MR TAES 7145	3/26/2012	
	AINS	2012	2020150						2077145	Brahman		MR TAES 7145 MR TAES 7145	3/26/2012	
	AINS	2012	2020188						OnaSire	Brahman		KCC 272 DF 185-176	3/26/2012	
2	AINS	2012	2020338						2109107		2109107	MR TAES 0107	3/26/2012	
	AINS	2012	2020404						2077145	Brahman		MR TAES 7145	3/26/2012	
ž	AINS	2012	2020452						2077145			MR TAES 7145	3/26/2012	
6	AINS	2012	2030004						2077145	Brahman	2077145	MR TAES 7145	3/26/2012	
1	AINS	2012	2030085						OnaSire	Brahman		KCC 277 OF 185-176	3/26/2012	
5	AINS	2012	2030089						OnaSire	Brahman		KCC 272 DF 185-176	3/26/2012	
3	AINS	2012	2030123						2077145	Brahman	2077145	MR TAES 7145	3/26/2012	
ř.	AINS	2012	2030470						OnaSire	Brahman	864628	KCC 272 OF 185-176	3/26/2012	
5	AINS	2012	2040288						2109107	Brahman	2109107	MR TAES 0107	3/26/2012	
	AINS	2012	2040517						OnaSire	Brahman	864628	KCC 272 OF 185-176	3/26/2012	



## **Genetic and Genomic Evaluation**

Data Pedigree, Phenotypes, Genotypes

Models Genomic-Polygenic: Pedigree, Phenotypes, and Genotypes Polygenic: Pedigree and Phenotypes Genomic: Phenotypes and Genotypes

## Genomic-Polygenic Model Multibreed

### RFI, FCR, DFI, PWG

year-reprogroup-pen + age of dam + sex of calf + age calf + breed fraction calf + heterozygosity calf + additive animal polygenic + additive SNP genomic + residual

## Genomic Model Multibreed

### RFI, FCR, DFI, PWG

year-reprogroup-pen + age of dam + sex of calf + age calf + breed fraction calf + heterozygosity calf

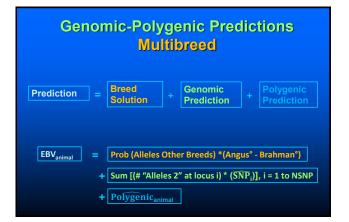
> + additive SNP genomic + residual

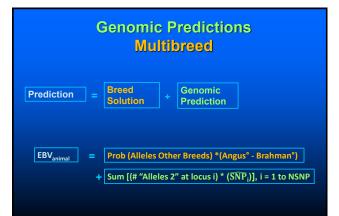
## Polygenic Model Multibreed

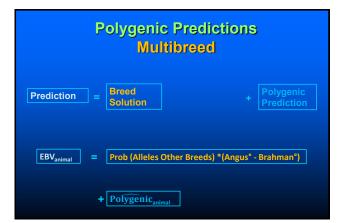
### RFI, FCR, DFI, PWG

year-reprogroup-pen + age of dam + sex of calf + age calf + breed fraction calf + heterozygosity calf + additive animal polygenic

+ residual



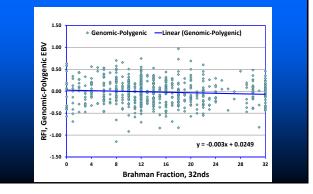


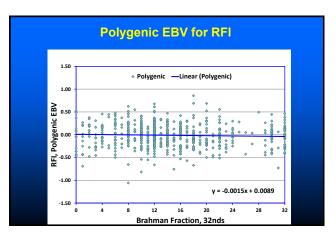


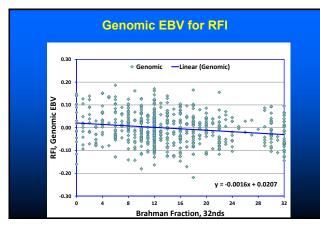
Numbo	Number of celves by breest group of sites a breest group of dam combination									
Breed group of dam	Breed group of sire									
	Angus	¾ A ¼ B	Brangus	½ A ½ B	1⁄4 A 3⁄4 B	Brahman	All			
Angus	46			7	7	17	105			
% A ¼ B	24	21	31	26	14	16	132			
Brangus	4		60	9	10	7	100			
½ A ½ B	30	27	21	26	22	20	146			
1⁄4 A 3⁄4 B	13	17	11	9	11	4	65			
Brahman	1	2	1	0	0	68	72			
All	118	87	142	77	64	132	620			

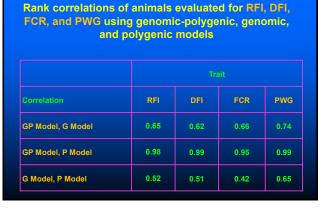
Additiv	Acceline Density and Genome Variation for RFI, DFI, FCR and PWG									
Trait		AGVar		Heritability	AGOVar/AGVar					
RFI		0.37		0.21	0.14					
(kg/d)	SD	0.15	0.11	0.08	0.11					
DFI	Mean	0.80	2.42	0.33	0.10					
(kg/d)	SD	0.24	0.15	0.09	0.08					
FCR	Mean	1.32	6.50	0.20	0.26					
(kfd/kgd)	SD	0.56	0.40	0.08	0.17					
PWG	Mean	89.74	240.97	0.37	0.16					
(kg)	SD	25.85	15.09	0.10	0.11					

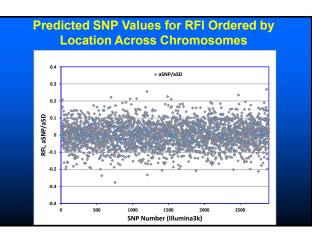
### Genomic-Polygenic EBV for RFI

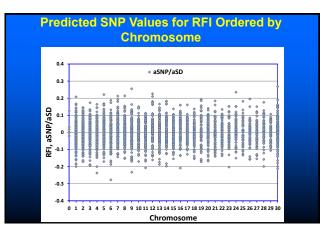


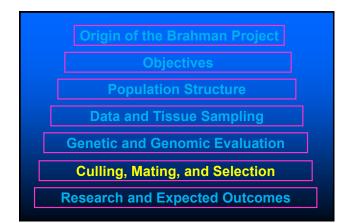






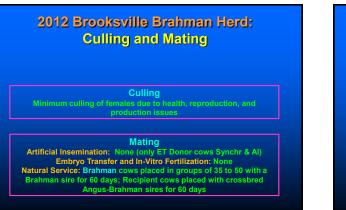


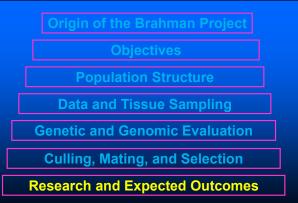












## **Research 1**

Prediction models and procedures for genetic and genomic values and estimation of genetic and genomic parameters for reproduction, growth, feed efficiency, ultrasound, and carcass and meat palatability traits

Comparison of individual animals and groups of animals produced by AI, NS, ET, and IVF using phenotypic, genetic and genomic values

Comparison of individual animals and groups of animals from different geographical origin using phenotypic, genetic and genomic values

## **Research 2**

Identification of groups of genes associated with reproduction, growth, feed efficiency, ultrasound, and carcass and meat palatability traits in Brahman and Brahman crossbred cattle

Identification of groups of genes affecting reproduction, growth, feed efficiency, ultrasound, and carcass and meat palatability traits in Brahman and Brahman crossbred cattle

Construction of single-breed and multibreed genomic models based on sets of genes associated with or affecting above mentioned traits

### **Expected Outcomes**

Genetic and genomic evaluation of animals from all cooperating herds in the population for traits in common

Within-herd and across-herd ranking of animals by their genetic and genomic predicted values

Improvement of traits within herds and in the complete Brahman population by preferential use of males and females with superior EBV as parents of subsequent generations

Determination of genetic and genomic trends for males and females for traits in common and comparisons of Brahman cattle grouped by various criteria (e.g., location, selection lines)

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