

NORTH WEST CAMELID FOUNDATION RESEARCH INVESTMENT HISTORY

Year	Study	Herd	Entity	Study
1987	\$1,000		OSU	Unrestricted
1988	\$700		OSU	Dr. Leone Thesis-Hormonal Changes
1989	\$10,000		OSU	Use of HCG & effect on various Llama functions
	\$2,000		OSU	Vitamin/mineral ILA project
1990		\$8,500	OSU	Herd maintenance
	\$8,100		OSU	Uterine Torsion
1991	\$8,600		OSU	Herd health, reproductive physiology, hematology, 3rd compartment ulcers
	\$8,000		OSU	Investigate uterine torsion, molar abscesses, long bone fractures, anesthesia
1992	\$16,000		OSU	Comparative analysis of Pharmacokinetics of 5 drug classes
		\$6,332	OSU	Herd maintenance
	\$6,000		MAF/OSU	Chonal Atresia in the Llama: Heritability & Identification of Carriers
1993		\$8,000	OSU	Herd maintenance
	\$6,670		OSU	Potential role of Vitamin D Deficiency in hypophosphatemic-rickets
	\$2,750		OSU	Use of Serum Estrone Sulfate Concentration for Pregnancy Diagnosis
	\$2,580		OSU	Viral Diseases of Llamas
1994		\$6,000	OSU	Herd maintenance
	\$1,000		OSU	Liver vasculature function
	\$1,500		OSU	Comparative Antibiotics
	\$3,600		OSU	Bile Acids
	\$6,000		MAF/OSU	Chonal Atresia in the Llama: Heritability & Identification of Carriers
1995	\$4,983		OSU	Seasonality of CA, PH and Vitamin D
		\$5,460	OSU	Herd maintenance
	\$3,055		OSU	Tooth Anatomy
	\$2,000		MAF	Unrestricted
	\$3,134		OSU	Vitamin D Supplementation Dosage
1996		\$3,100	OSU	Herd maintenance
	\$3,200		OSU	Vascular Anatomy of Mandibular Teeth
	\$4,956		OSU	Vitamin D Toxicity
	\$6,769		MAF/OSU	Comparative Antibiotic Metabolism in the Llama
	\$5,840		MAF/OSU	Medical Management of Third Compartment Ulcers in the Llama
	\$3,377		MAF/OSU	Use of Fecal Steroids for Pregnancy Diagnosis in the Llama
1997		\$9,550	OSU	Herd maintenance
	\$5,760		MAF/OSU	Investigation of Hepatic Lipidosis in Llamas
	\$5,707		MAF/OSU	Seasonal Interaction of Vitamin D and Bone Density in the Llama
	\$10,200		MAF/OSU	Characterization of Uterine Bacterial Populations & Antibiotic sensitivity
	\$9,300		MAF/OSU	Oral Vitamin D Supplementation in Llamas for prevention of Rickets
	\$5,707		OSU	Embryonic Mortality in Llamas
	\$8,740		OSU	Bone density & Vitamin D levels in llamas with long bone fractures
1998	\$1,240		OSU	Ultrasonic Appearance of Gastrointestinal Organs
	\$5,250		OSU	Causes of Cria Diarrhea
1999		\$8,500	OSU	Herd maintenance
	\$3,009		OSU	Effects of Feed Restrictions on Insulin
	\$2,150		OSU	Role of Bile Acids in Ulcers
	\$5,778		OSU	Geriatric Females-A Baseline Study
	\$4,350		OSU	Radiographic Study of Cheek Teeth
2000		\$5,995	OSU	Herd maintenance
	\$9,642		OSU	Insulin Secretion and Glucose Clearance
2001		\$8,330	OSU	Herd maintenance
	\$7,932		OSU	Feed Restriction of Glucose Clearance
	\$12,420		OSU	Further Investigation-Hepatic Lipidosis
2002		\$4,000	OSU	Herd maintenance
	\$473		OSU	SW Washington Post Mortem Blood Work
	\$6,565		OSU	Efficacy of Florfenicol in Clearing M. Haemolamae
	\$3,600		OSU	West Nile Virus Vaccination & Seroconversion

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2003	\$7,515		MAF/OSU	Glucose Tolerance, Insulin Sensitivity in Crias
		\$2,800	OSU	Herd maintenance
2004	\$1,500		OSU	Anatomic Communication of Carpus, Tarsus, etc
	\$2,250		OSU	Ex Copula Semen Collection & Cryopreservation
	\$10,942		OSU	Efficacy of Enrofloxacin in Clearing M. Haemolamae
2005		\$5,000	OSU	Herd maintenance
	\$17,439		OSU	Comparison of Fecal Sample Detection Techniques
	\$7,878		OSU	Analysis of Peritoneal Fluid
	\$7,500		OSU	Analysis of Pastern Breakdown
	\$1,530		OSU	Breaking Pressures in Intestine Closures
2006		\$5,000	OSU	Herd maintenance
	\$7,803		OSU	Suspensory Apparatus Breakdown in Llamas (Part 1)
	\$7,572		OSU	Suspensory Apparatus Laxity in Juvenile Llamas (Part 2)
	\$3,825		OSU	Immune Response to M. Haemolamae
	\$2,500		OSU	Ultrasonography of Testicular Blood Flow
	\$7,650		OSU	Response to Human Granulocyte by White Blood Cells
	\$3,000		MAF/OSU	Method to Assess Insulin Sensitivity
2007		\$5,000	OSU	Herd Maintenance
	\$6,574		OSU	ELISA Test for Early Detection of E. Mac
	\$5,355		OSU	Use of Artemisin to Treat M. Haemolamae
	\$7,195		OSU	Effect of Hetastarch Supplements
	\$3,000		MAF/OSU	Arginine Stimulation Testing in Healthy & Sick Camelids
2008		\$5,000	OSU	Herd maintenance
	\$4,710		MAF/OSU	Effects of Plasma & Hetastarch on Colloid Osmotic Pressure of Alpacas
	\$5,142		OSU*	Pharmacokinetics of ceftiofur crystalline free acid (EXCEDE) in llamas
	\$5,060		OSU	Epidemiologic Investigation of M. Haemolamae
2009		\$5,000	OSU	Herd maintenance
	\$3,456		OSU	Retrospective Analysis of Anemia
	\$12,862		OSU	Protocol and Tomography Evaluation of Abdomen
	\$ (2,043)		OSU	Refund \$942.93 cost under budget \$1,100 contract balance cancelled
	\$17,500		OSU	Suspensory Apparatus Breakdown: Serum Mineral Levels/Assays
2010	\$6,406		OSU	Blood Glucagon Peptide-1 Concentrations
	\$3,240		OSU	Development of Real-time PCR Assay for Diarrhea
		\$5,000	OSU	Herd maintenance
	\$6,900		OSU	Glucagon Like Peptide-1 Dosing
2011	\$5,000		OSU	Herd maintenance
	\$6,050		WSU	Alkaline Phosphate Concentration in Alpaca Seminal Fluid
	\$14,580		OSU	Evaluation of Complex Cardiac Abnormalities using CT
	\$1,750		OSU	Abortions & Stillbirths & Contribution of Placental Insufficiency
	\$3,825		OSU	Pathology& pathogenesis of Megaesophagus in Alpacas and Llamas
2012		\$5,000	OSU	Herd Maintenance
	\$8,600		OSU	Pharmacokinetics of subcutaneous gamithromycin in alpacas
	\$5,000		OSU	Effects of mother's milk on glucose tolerance in crias
2013		\$5,000	OSU	Herd Maintenance
	\$3,600		OSU	GLDH as an indicator of hepatic disease
	\$16,823		OSU	Survival of Eimeria oocysts under different environmental conditions
	\$ (16,823)		OSU	Cancelled Insufficient samples
2014	\$6,420		OSU	Evaluation of Platelet rich plasma processing methods
2015		\$5,000	OSU	Herd Maintenance
2016		\$5,000	OSU	Herd Maintenance
	\$13,281		OSU	Pharmakokinetics & Safety of oral Gabapentin Adm in Camelids
2017		\$5,000	OSU	Herd Maintenance
	\$11,900		OSU	Effects of GLP-1 receptor agonist on glucose & insulin metabolism
	\$5,000		OSU	Effects of hyperglycemia in camelids
2018		\$2,500	OSU	Herd Maintenance

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		\$2,500	WSU	Herd Maintenance
	\$7,275		WSU	Establish reference value of Anti-Mullerian plasma re ovarian functions
	\$6,630		OSU	Injectible Anesthesia in Llamas and Alpacas
2022	\$ (6,630)		OSU	Staff departures cannot complete refund Covid-19
2019	\$3,600		WSU	Identification of Antimicrobial Resistant Genes in Camelid Probiotics
		\$5,000	WSU	Herd Maintenance
		\$5,000	OSU	Herd Maintenance
2020	\$4,688		OSU	Gastritis in alpacas and llamas
	\$ (4,688)		OSU	Staff departures cannot complete refund Covid-19
2022	\$ 12,000		OSU	Development of sdAb to bind Glucagon-like Peptide-1 Receptor
2023	\$ 20,800		OSU**	Echocardiographic references for broad population of alpacas and llamas
	\$ 9,845		OSU	Gastritis in llamas and alpacas Resubmit of grant 20-001
2024	\$ 5,180		OSU***	Immunocrit to predict adequacy of passive transfer in neonatal camelids
	\$ 6,350		OSU****	Injectable Anesthesia in Llamas and Alpacas
2025	\$ 40,223		OSU*****	Gastritis in Llamas and Alpacas
	\$ 18,760		OSU*****	Integrated Cardiac Assessments
	\$612,937	\$146,567		Total study cost & herd support \$759,504
			*08-002	Adverse events. IACUC concerns study stopped. Final report inconclusive
			**OSU/UOP	GALA funded \$10,400 OSU/University of Pennsylvania joint project
			***	GALA funded \$2,590
			****	GALA funded \$3175
			*****	GALA funded \$20,000
			*****	GALA funded \$10,000
				12/28/2025 Glen P

NORTH WEST CAMELID FOUNDATION RESEARCH INVESTMENT HISTORY

92-LA5
93-003
93-002
93-005
94-004
94-005
94-003
94-001
92-LA5
95-006
95-002
95-005
95-004
96-007
96-008
96LA-04
96LA-05
96LA-06
97-LA06
97-LA07
97-LA08
97-LA09
97-003
97-004
98-002
98-003
99-004
99-008
99-001
99-006
99-005
00-004
00-002
01-003
01-005
02-001
02-003

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D03LA-11
04-001
04-002
04-005
05-001
05-002
05-003
05-004
06-001
06-002
06-003
06-004
06-005
DO6LA-302
07-001
07-002
07-003
DO7LA-006
DO8LA-302
08-002
08-003
09-002 FO6460
09-004
09-004
09-005
10-001
10-003
10-004
11-003
11-004/F7190
11-005
11-006
12-002
12-003
13-002
13-003
13-003
14-001
16-001
17-001
17-002
17-003
18-001

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18-002
18-003/19-001
18-003/19-001
19-002
19-003
19-004
20-001
20-001
22-001 F12250
23-001 F12650
23-002
24-001
24-003
25-001
25-002
08-002
23-001
24-001
24-003
25-001
25-002

