

C. Objectives

To genetically characterize the four indigenous cattle breeds of Zambia for the purpose of conservation and sustainable use of local Animal genetic resources.

D. Work Assignments

List project/activity personnel and state each person's responsibilities or duties for the entire project/activity (overall project tasks) and for the quarter being reported.

Name	Overall project task(s)	Assignments for the quarter under review	Work done in the quarter under review
1. Ms Brenda Chileshe	-Project supervision -Analysis of data -Sample collection -Preparation of Standard Operating Procedures (SOP's)	Supervision of staff Data analysis Preparation of SOP's	- Administered the project - Analysed the data - Prepared SOP's
2. Ms Miriam Chipeta	-Preparation of samples -Extraction of samples -Analysis of samples -Preparation of SOP's	-Preparation of samples -Extraction of samples -Analysis of samples -Preparation of SOP's	- Prepared samples - Extracted samples - Analysed samples - Prepared SOP's

E. Overall Research/Activity Work Progress

Project/Activity Quarter	Objective/Activity	Planned completion date (day/month/year)	State funds required/allocated/spent (e.g. ZMK 38/38/32 million)	Date completed (day/month/year)	Brief results/Outputs/accomplishments	If not completed, provide reasons
2/17	Analysis of DNA samples, PCR, sequencing, data Analysis.			Continuing	The three breeds, Tonga, Barotse and Angoni have been analysed except the Bala Breed.	
3/16	Analysis of Bala blood samples.	December 2017		Continuing	A 7-day sampling trip was undertaken in Ilala-Lusizi to collect blood samples from Bala cattle. 52 samples were collected and DNA was extracted using Master pure kit. The DNA has been stored at -20deg awaiting the next phase of characterization.	Delay in sending of enzymes and reagents by partner laboratory in Selbendorf.
4/16	Analysis of Bala blood samples	December 2017		continuing	None in this quarter.	Reagents for analysis still not sent.
1/17	To run 27 PCR's on the 51 Bala DNA samples using 27 primer pairs	December 2017		March 2017	PCR was run on all 51 Bala DNA samples in this quarter.	