Research:

(a) Completed:

1) Studies of the effect of plant materials on mammalian reproduction
2) Studies on oestrous synchronization and artificial insemination in cattle and goat
3) Oestrus detection studies in dairy cattle and dogs
4) Reproductive case report findings in different animal species
5) Vaginal microbial population in Equine

(b) In Progress:

1) **Investigation of foetal wastage and reproductive abnormalities in female cattle**
This study is designed to investigate the common reproductive abnormalities in female cattle as well as the level of foetal wastage in the abattoir and how it impacts cattle production. The common reproductive abnormalities of the ovary, oviduct, uterus, cervix and vagina in relation to age and body condition score. The study will also determine the frequency of foetal wastage and the most affected gestational age. This will help in raising an advocacy for routine pregnancy diagnosis for female cattle in order to optimize cattle production. The study is 95% complete.

2) **Investigation of Indomie waste effect on female reproduction using Wistar rat**
This study investigates the effect of Indomie waste on the reproductive performance of pubertal Wistar rats, focusing on the oestrous cycle, ovarian and uterine changes, and pregnancy. This is necessitated by its increased use as an alternative food for companion animals due to economic challenges. The study is 95% complete.

3) **Comparative assessment of GnRH and PGF2-alpha based protocols on oestrous synchronization and pregnancy outcome in Wistar rats**
This study will investigate the effect of different oestrous synchronisation protocols on oestrous cycle, pregnancy rate and litter size in Wistar rats. This study seeks to provide alternative, effective synchronisation protocols for female rat-based studies, with a focus on how hormone treatment influences reproductive outcomes. The study is 30% complete.

4) **Investigation of the effect of whole tiger nut feed supplementation on puberty attainment in male Wistar rats**
This study will investigate the effect of whole tiger nut inclusion in rat feed at different percentages on balanopreputial separation, reproductive parameters, testicular genes and histology. This study will provide information on the effect of tiger nut dietary inclusion on the early developmental period in male Wistar rats. The study is 80% complete.