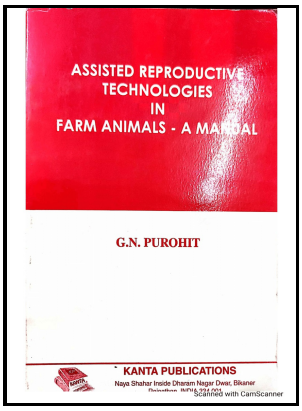
Reproductive technologies in farm animals

CABI Pub. - Reproductive Technologies in Animals



Description: -
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Fluvanna County (Va.) -- Genealogy.
Deeds -- Virginia -- Fluvanna County.
Livestock -- Breeding.
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-Reproductive technologies in farm animals
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Animal breeding

Effects of gonadotropin treatment on incidence of estrus and pregnancy rate in ewes synchronized with Synchro-Mate-B SMB and subjected to laparoscopic artificial insemination LAI during the breeding season. Results for this report period are as follows: 1 Gap junctional proteins connexin 26, 32, and 43 are present in ovarian tissues both CL and follicles and the pattern of expression indicates that these proteins may be important in the regulation of folliculogenesis and atresia, as well as growth, differentiation, and regression of the CL. The genome edited embryos are then matured in vitro and the editing of each zygote is confirmed by portable biopsy sequencing.

Meaning, Pros, and Cons of Artificial Insemination in Cattle

Both are technically challenging, costly, labor-intensive, and require expert skills with bulky micromanipulation equipment; restricting their use to a small number of specialized laboratories. Somatic cell nuclear transfer NF is a technique in which the nucleus DNA of a somatic cell is transferred into a female egg cell or oocyte in which the nucleus has been removed to generate a new individual, genetically identical to the somatic cell donor.

Animal breeding

The average global per capita meat consumption is 42. With the exception of MOET, embryo biotechnologies have not been used extensively in breeding programs. Smih F, Rouet P, Romanienko PJ, Jasin M.

Research in Assisted Reproductive Technologies

The specific objectives are to: 1 determine the role of angiogenesis vascular growth and development in the function of the corpus luteum in cattle and sheep, 2 develop improved methods of superovulation in cattle and sheep, and 3 evaluate the role of placental size and vascularity in fetal growth and development in cattle, sheep, and pigs. Homozygous haplotype deficiency reveals deleterious mutations compromising reproductive and rearing success in cattle.

Reproductive Technologies in Animals

In on-farm settings, we foresee a pipeline where donor females are super-ovulated and oocytes collected for in vitro fertilization - as per a

conventional ET program. Akagi S, Matsukawa K, Takahashi S. Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution.

Veterinary Discussions

For example, let a indicate a locus, with a 1 and a 2 representing two possible alleles at that location.

Reproductive Technologies in Animals

We expect optimization of embryo collection and the timing of rAAV transduction will reduce the frequency of mosaicism in rAAV edited offspring. Genome editing zygotes by rAAV transduction would not require the purchase of any additional equipment over a standard ET program and adding rAAV to zygotes in culture is a relatively straightforward procedure.

Reproductive technologies in farm animals.

It is likely that abnormalities associated with in vitro protocols have a common cause and may be due to epigenetic errors that accumulate during early development. Gap junctional proteins, connexin 26, 32 and 43 in sheep ovaries throughout the estrous cycle. The low cost and skill-level required by operators could see this technology widely adopted in on-farm settings in the near future.

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