

ANNUAL REPORT OF NAIP PROJECT (2009 - 2010)

i) Project details

α) **Project title:** *Developmental potency of parthenogenetic goat embryos*

β) **Project code** : **NAIP COMPONENT: 4 C4/C30016/2008-09**

χ) **Thematic Area** : Genetic Enhancement (Animals/Fishes)

δ) **Lead Institution:** Indian Veterinary Research Institute

ε) **Partners** : Central Institute for Research on Goats

φ) **CCPI** : Dr. S. D. Kharche

γ) **COPIs** : Dr. A. K. Goel and Dr. S. K. Jindal

η) **Total Budget of the project** : Rs. 447.096 lakh

ι) **Total Budget for CIRG** : Rs. 54.024 lakhs

φ) **Date of Sanction** : 06-01-2009

κ) **Duration** : 3 year 3 Months

λ) **Subproject website address (URL)** : www.parthenoteivri.com

μ) **Objectives:**

- To Generate Parthenogenetic Goat Embryos.
- To study the differential gene expression in parthenogenetic, SCNT, IVF, in vivo developed goat embryos and turkey embryos (a common parthenogenetic poultry bird).
- To study the development potential of diploid parthenogenetic embryos compared to in vitro and in vivo produced embryos following transfer into recipient goat.

ν) **Achievements: In vitro Embryo production and Transfer**

- IVP embryos of 4-8 cell stage were transfer surgically in to Four recipients.
- IVP embryos of 16-32 cell stage were transfer surgically in to eight recipients
- Two recipients are pregnant at 40 and 55 day of pregnancy following transfer of in vitro produced embryos surgically.
- Parthenogenetic goat embryo were produced up to morulla stage.