



**Dr. S.K. Agarwal**  
**Director**  
**Central Institute for Research on Goats,**  
**Makhdoom, P.O. Farah-281 122, Mathura (UP)**

**Dr. Sudhir Kumar Agarwal**, an efficient research worker and excellent teacher, has significant contribution in the field of research and teaching. Before joining as **Director, Central Institute for Research on Goats Makhdoom, Mathura**, he was **Head, Division of Animal Reproduction, IVRI, Izatnagar**.

Dr. Agarwal has been associated with **17 research projects including 5 outside funded projects funded by DBT, NFBSRA, ICAR, AICRP, S&T and NATP-CGP agencies**. Recently, he has completed successfully **multi- institutional outside funded project** under National Fund for Basic and Strategic Research in Agricultural Sciences as Team leader.

**Dr. Agarwal's major contribution includes** cloning and characterization of PAG-1, COX-2 and hormone (oxytocin, progesterone and estrogen) receptor genes responsible for pregnancy recognition and cyclicity in buffalo, establishment of endometrial epithelial, stromal and luteal cell culture system as an *in vitro* model to study the regulation and modulation of prostaglandin and progesterone secretion in buffalo, determination of the period of maternal recognition of pregnancy in buffalo, cellular and histomorphological characterization of corpus luteum of buffalo. Expression profile of oxytocin, progesterone and estrogen receptor genes in uterus for better understanding of cyclicity and  $3\beta$ -HSD, LH-R,  $\text{PGF}_{2\alpha}$ , Growth factors (IGF-1, VEGF, ANG-1& 2) and growth hormone receptors in corpus luteum for elucidation of CL functions in buffalo. He has been instrumental in developing some of the anti-luteolytic strategies using selective COX-2 inhibitor, insulin, GnRH at mid luteal stage of cycle and Poly unsaturated Fatty Acid (PUFA) for enhancing embryonic survival and fertility in buffalo. Besides these, he was also been involved in the development of protocol for superovulation & embryo collection and therapeutic management of Anoestrus, Suboestrus, Repeat Breeding and Ovarian Cyst in Cattle, Buffalo and Goats. He has also developed herbal base remedies for anestrus in farm animals and explored the possibility of use of insulin for enhancing reproductive efficiency in cattle and goat.

**Dr. Agarwal has penned and published quality instructional materials** in the form of Books/Monographs, Laboratory manual, Book chapters, Lead papers and Review articles for the benefit of students and research workers. He is **author** of a book/monograph of **"Reproductive technologies in Buffalo"** and **"Laboratory manual on Animal Gynecology"** which has greater demand among the professionals.

He has guided **13 students for their Ph.D./M.V.Sc. degrees** in Veterinary Gynecology and Obstetrics and **published 118 research papers** in the National and International journals of repute and **presented 54 invited/ guest lectures** at various International and National Seminars/Symposium/Training courses. He has been the **Course Director** of ICAR sponsored 21 days winter school organized at Animal Reproduction Division and **Organizing Secretary** of 21st Annual Convention and National Symposium of ISSAR held at IVRI, Izatnagar. At present, he adorns the chair of **President, Indian Society for Study of Animal Reproduction (ISSAR)**.

Dr. Agarwal has been bestowed with several coveted awards on account of his outstanding performance and contribution to research and teaching, including **ICAR Team Research Award, ICAR Bharat Ratna Dr. C. Subramaniam Award for outstanding teacher, Institute Best Teacher Award, Nils Lagerlof Award, Basu Memorial Gold Medal and G.B. Singh Memorial and Indian Dairy Association awards**. He is **Fellow** of National Academic of Veterinary Science (NAVS), Indian Society for Study of Animal Reproduction (**ISSAR**) and Indian Association for Advancement of Veterinary Research (**IAAVR**).