

Biodata

Dr. Ravi Ranjan



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Date of Birth : December 11, 1979
Gender & Marital Status : Male, Married
Nationality : Indian
Languages Known : English, Hindi and Bangla
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Present position:

Scientist (Animal Physiology), PRSM Division, CIRG, Makhdoom, Farah, Mathura, U.P.

ACADEMIC ACCOMPLISHMENTS

College/Institute/University	Examination passed	Year	Division	OGPA/%
West Bengal University of Animal and Fishery Sciences, Kolkata, W.B.	B.V.Sc. & A.H.	2003	1 st	64.67%
National Dairy Research Institute, Karnal	M.V.Sc.*	2005	1 st	7.3/10
National Dairy Research Institute, Karnal	Ph.D.**	***	1 st	7.3/10

* Major subject taken during M.V.Sc: Animal Physiology
Minor subjects taken during M.V.Sc: Animal Biochemistry, Animal Nutrition, Mol. Biology, Research Techniques, Biostatistics, Research Documentation, Computer Programming Language and Animal Biotechnology

** Major subjects taken during Ph.D: Reproductive Physiology, Stress Physiology, Lactation Physiology
Minor subjects taken during Ph.D: Mineral Nutrition, SYSTAT, Research Technique in Physiology and Biochemistry

*** Ph. D. incomplete as I have joined ARS in 8th January 2006.

RESEARCH WORK UNDERTAKEN IN MASTER PROGRAMME

Research Work: Project entitled “ANTIOXIDANT STATUS IN LIVER, KIDNEY AND DIFFERENT MUSCLE TISSUES OF BUFFALO” was successfully completed under the guidance of Dr. Sohanvir Singh, Senior Scientist, DCP Div., NDRI, Karnal. The work involved biochemical study of the activity of anti-oxidative enzymes and TBARS (Thiobarbituric acid reactive substances) in different muscle tissues of buffalo.

RESEARCH WORK UNDERTAKEN IN Ph.D. PROGRAMME

Research Work: project entitled “EFFECT OF ANTIOXIDANTS ON SURVIVABILITY OF SPERMATOZOA AND FERTILITY OF BUCK SEMEN DURING DIFFERENT SEASONS” under guidance of Dr. Sohanvir Singh, Senior Scientist, DCP Div., NDRI, Karnal. The works involved biochemical estimation of reactive oxygen species, antioxidant enzymes in spermatozoa and seminal plasma. The works also involved capacitation, acrosomal reaction and in vitro fertilization of cryopreserved buck semen. (Work is incomplete)

SCIENTIFIC ABILITIES

Reproductive Bio techniques:

- Aspiration of goat, sheep, cattle and buffalo oocytes
- In vitro fertilization (IVF) and In vitro maturation (IVM) techniques
- Oestrus synchronization and fixed-time Artificial Insemination.
- Artificial Insemination in goats, cattle and buffaloes.
- Evaluation of in vitro fertility test for male.

Immunological Techniques:

- Enzyme immunoassays (EIA) for protein and steroid hormone
- Radio immunoassay (RIA) for steroid hormone in milk and blood plasma

Physiological Techniques:

- Electrocardiography
- Haematological analysis

General Biochemical Techniques:

- Spectroscopy
- High Speed Centrifugation
- Chromatographic procedures

Instruments Handled:

UV/Vis-Spectrophotometer, High Speed Centrifuge, Electrophoresis units (PAGE & Agarose), ELISA plate washer, ELISA Reader, β -scintillation counter, Ultra sound Machine, Ultrasound-ray, CO₂ incubator, Laminar flow, CASA, controlled biofreezer, saw printing machine, automatic filling and sealing machine and High magnification Microscopes.

AWARDS AND DISTINCTIONS

- Qualified CSIR-UGC National Eligibility Test (NET)
- NDRI institutional fellowship in Ph.D. programme.
- Junior research fellowship of ICAR during M.V.Sc.
- National Talent Scholarship (NTS) during B.V.Sc. & A.H.

EXTRA-CURRICULAR ACTIVITIES

- Participation in various activities related to social concern and extension education.
- Playing games especially chess and badminton.

Research projects:

PRSM XI.1.1: Studies on refinement of frozen semen technology and Strengthening of goat semen bank. (As Co-PI)

Thrust Research Area:

Semen Freezing and Artificial Insemination in Goats

Publications:

Research articles : 3; Review/ Lead articles : 1; Popular articles : 1
Chapters contributed : 4; Abstracts in Seminars : 2
Seminar attended : 2; Training attended : 2
Training organized : 1 (as co-coordinator of International Training programme)

Membership Of Professional Societies:

Life member of " Indian Society for Sheep and Goat Production and Utilization.
Life member of " Society for Animal Physiologist of India".

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