

Dr. (Ms) Arundhati Purkayastha

Technical Skills:

- Worked on study of virulence and antimicrobial-resistance gene profiles of *salmonella* isolates from animals and man along with standardization of a multiplex PCR assay for genes under study.
- Has experience of handling thermocycler, Gel Doc, Nanodrop Spectrophotometer and various PCR-based techniques, PCR-RFLP, Gradient PCR.
- Experienced in doing Poly acrylamide Gel Electrophoresis.
- Experience in processing of ovary and aspiration of oocytes (Pig, Cattle, Sheep, Goat,) and various other reproductive biotechnological techniques.
- Experienced in stem cell culture in pigs.

- Well versed with various Bioinformatics tools primer designing and *in-silico* PCR, phylogenetic analysis, Database creation, Protein modelling, Multiple sequence alignment.
- Has experienced in analyzing Sequencing result by using software.
- Experience in Culture of various aerobic bacteria.
- Experience on farm management and Animal handling (Pig, goat, and Cattle).
- Has experience in hands on training on hatchery management.
- Experience in planning designs of experiment.

M.V.SC RESEARCH TOPIC: Virulence and antimicrobial resistance gene profile of *Salmonella* by PCR from fecal samples of animal and human.

Internship:

1. Teaching Veterinary Clinical Complex, Khanapara, Assam
2. Assam State Zoo, Guwahati, Assam
3. Institutional Poultry Farm, Khanapara, Assam
4. I.C.D.P, Khanapara, Assam
5. Veterinary Biologicals, Khanapara, Assam

Merits/Scholarship/Membership:

- Received **DBT Studentship** during Master’s Degree programme from **Department of Biotechnology (DBT), Govt. Of India.**
- Received **Merit Scholarship** during Bachelor’s Degree programme from **Assam Agricultural University.**
- Registered practitioner in **INDIAN VETERINARY COUNCIL (ASM -2586).**

Other Qualification :

1. Operating System Platform:- MS Word, MS PowerPoint -MS Excel, Internet Browsing
2. N.C.C. – Awarded with B (Indian Army Wing)

Publications:

- “Turtles of the Temple Pond of Kamakhya, Assam, India”, January 2013 REPTILE RAP #15, 11-15.
- A case of White-breasted Kingfisher (*Halcyon smyrnensis*) Preying on a Gecko (*Hemidactylus aquilonius*) , 2012, Asian Journal of Conservation Biology Vol. 1 No. 1, pp.45-46.
- Published an abstract “A study of abattoir bovine ovary” in National Symposium on “Addressing Reproductive Stresses Through Biotechnological Tools” held at College of Veterinary Science, AAU, Assam.
- . Communicated research paper in Indian Journal of Animal Science. Suresh Kumar, B Devi , A Purkayastha , R Basumatary, S Doley, G Kadirvel And P K Bharti: “Effect of season on ovarian biometry, oocyte retrieval and quality of oocytes in pigs”.

• Workshop/Training attended:

| SI. No | TOPIC | DATE AND DURATION | FIELD OF TRAINING | PLACE |
|--------|---|-------------------|---------------------------------------|--|
| 1 | North-East Life Science Entrepreneurship Workshop | ,2012(3 Days) | Biotechnological Entrepreneurship,IPR | Shillong, Meghalaya |
| 2 | Molecular techniques and their Application in Veterinary Research, Khanapara, Guwahati. | | Molecular techniques | SBT HUB, College of Veterinary Science Khanapara, Guwahati |
| 3 | National Symposium on Addressing Reproductive Stresses Through | | Reproductive Biotechnology based | College of Veterinary Science, AAU, Assam |

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| 4 | Biotechnological Tools RNAi and Gene Silencing Technology | | Gene Silencing | SBT HUB, College of Veterinary Science Khanapara, Guwahati |
| 5 | Advanced Techniques in Cell and Molecular Biology | 24 th to 26 th June, 2014 (3 Days) | Flow cytometry, Q- PCR, MALDI, Surface plasmon resonance based biosensor | IIT Guwahati |
| 6. | National Training on Stem cell Biology | 5 th to 25 th August, 2014 (2 1 days) | Stem cell Technology | Animal Biotechnology Centre, NDRI, Karnal, Har yana |

Work Experience

Working as JRF/SRF in “Stem cell technology in pigs” at Division of Livestock Production, ICAR Research Complex for NEH Region, Umiam, Meghalaya from February, 2013 to till date.