

Prof Dr. Sankar Kumar Ghosh

Department of Biotechnology

Professor and Head

Specialization:

**Cancer and Biodiversity Genomics, Medical and Animal
Biotechnology, DNA barcoding, Bioinformatics,
Mitochondrial Genomics**



Important Publication (last 5 years)

- "Revealing The Cradle of Cat Domestication" With Leslie Lyons, University of California, Davis (2010): PLoS Biology (under consideration) (**Impact Factor- 14.798**)
- Elevated Levels of Select Gangliosides in T Cells from Renal Cell Carcinoma Patients Is Associated with T Cell Dysfunction. (2009): Journal of Immunology. Oct 15; **183(8)**: 5050-8 (**Impact Factor- 6.293**)
- Molecular characterization of novel variants of interferon-tau gene in Garole breed of sheep. (2008): Anim Reprod Sci. 104 (2-4): 238-47 (**Impact Factor-2.107**)
- TNF- α induction of GM2 expression on Renal Cell Carcinomas promotes T cell dysfunction. (2007): Journal of Immunology **178**: 6642-6652. (**Impact Factor- 6.293**)
- Compositional Correlations in Canine Genome reflects similarity with human genome (2006): Journal of. Biochemistry and Molecular Biology. **39 (3)** : 240-246 (**Impact Factor-2.642**)

- Prevalence of Oral Cancer and its association with mitochondrial DNA mutation from Northeast India (2010): **Best award** in 96th *Indian Science Congress* in Physiology and Medical Section, presented by Rozy Mondal at Kerala.
- Mitochondrial Genome: the biomarker for Indian Biodiversity (2009): 3rd International Barcode of Life (iBOL), MEXICO CITY, Mexico (**Invited talk**)

- DNA Barcoding of Small Ruminants from Sunderban, India (2008): 2nd Canadian Barcode of Life (cBOL), Canada (**Invited talk**)

Ongoing Projects: as Principal Investigator:

1. Strengthening of teaching, research (Fish DNA barcoding) and training (hands on Molecular Biology and Genomics) in Northeast India. Funded by DBT (Aug-2009: 5 years): Rs.128 Lakh
2. Head and Neck & Breast Cancer Genomics (Collaborative project with Dr. Ravi Kannan, Cachar Cancer Hospital and Research Centre). Funded by DBT (Feb 2010: 5 years): Total Rs. 189 Lakh