Name: **Dr. Narendra K Bairwa**

Designation: Assistant Professor

Area of Specialisation: Biotechnology, Cancer and Yeast Genetics, Bioinformatics, Molecular and Synthetic Biology

Research Interest: Protein-Protein interactions and drug targets, Protein structure prediction and gene-gene networks, Molecular and Synthetic biology Applications and drug discovery

Achievements: **DBT Scholarship for M.Sc. in Marine Biotechnology**
CSIR/UGC JRF/ NET Qualified
Ph.D. (Cancer Genetics) School of Life Sciences, JNU, New Delhi
Postdoctoral Research (University of Iowa, Iowa City and MUSC, USA)
DBT Ramalingaswami Fellowship

Research projects/consultancy: **DBT Project (87 Lacs)**

Recent publications (last 10 publications):

1. **Bairwa NK**, Saha A, Gochhait S, Pal R, Gupta V, Bamezai RN. Microsatellite instability: an indirect assay to detect defects in the cellular mismatch repair machinery. **Methods Mol Biol.** 2014; 1105:497-509

2. Gupta V, Arora R, Gochhait S, **Bairwa NK**, Bamezai RN. Gel-based nonradioactive single-strand conformational polymorphism and mutation detection: limitations and solutions. **Methods Mol Biol.** 2014**;**1105:365-80.

3. Kaushlendra Tripathi, Visesato Mor, **Narendra K Bairwa**, Maurizio Del Poeta, Bidyut K Mohanty. Hydroxyurea treatment inhibits proliferation of *Cryptococcus neoformans* in mice. **Frontiers in Microbiology.** 2012 **May** 24; 3:187

4. **Bairwa NK,** Mohanty BK, Stamenova R, Curcio MJ, Bastia D. The intra-S phase checkpoint protein Tof1 collaborates with the helicase Rrm3 and the F-box protein Dia2 to maintain genome stability in Saccharomyces cerevisiae. **J Biol Chem.** 2011 Jan 28; 286(4):2445-54.

5. **Bairwa NK,** Zzaman S, Mohanty BK, Bastia D. Replication fork arrest and rDNA silencing are two independent and separable functions of the replication terminator protein Fob1 of *Saccharomyces cerevisiae*. **J Biol Chem.** 2010 Apr 23; 285(17):12612-9

6. Mohanty BK, **Bairwa NK,** Bastia D. Contrasting Roles of Checkpoint Proteins as Recombination Modulators At Fob1-Ter Complexes With or Without Fork Arrest. **Eukaryotic Cell.**2009 Apr; 8(4):487-95

7. Gochhait S, Bukhari SI, **Bairwa N**, Raish M, Gupta P, Husain SA, Bamezai RN, Vadhera S,Darvishi K. I mplication of BRCA2 -26G>A 5'UTR polymorphism in susceptibility to Sporadic breast cancer and its modulation by p53 codon 72Arg>Pro polymorphism**. Breast Cancer Res**. 2007 Oct 18; 9(5):R71

8. Mohanty BK, **Bairwa NK**, Bastia D. The Tof1p-Csm3p protein complex counteracts the Rrm3p helicase to control replication termination of *Saccharomyces cerevisiae.* **Proc Natl Acad Sci U S** A. 2006; 103(4):897-902.

9. Saha A, Dhir A, Ranjan A, Gupta V, **Bairwa N**, Bamezai R. Functional IFNG polymorphism in intron 1 in association with an increased risk to promote sporadic breast cancer. **Immunogenetics.** 2005; 57(3-4):165-71.

10. Wenger SL, Senft JR, Sargent LM, Bamezai R, **Bairwa N**, Grant SG. Comparison of established cell lines at different passages by karyotype and comparative genomic hybridization. **Biosci Rep**. 2004; 24(6):631-9.

Students working and their thesis:

1. MeenuSharma : Genome Stability Regulation
2. Monika Pandita : Genome Stability Regulation
3. Heena Shoket : Genome Stability Regulation

Vacancy: Available (For internship)

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