

## Dr. Amit Ranjan

**Designation** : Assistant Professor  
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**Mobile No** : +91-9819960661  
**Qualification** : M.Sc., Ph.D.  
**Area of Specialization:** Cancer Biology (Invasion and Metastasis)



## Academic Qualifications:

- ✓ **Ph.D.** (2006-2014): ACTREC, Tata Memorial Centre, Homi Bhabha National Institute, Mumbai; Thesis title: Role of  $\beta$ 1,6 branched N-oligosaccharides in regulating key cellular processes involved in cancer cell invasion.
- ✓ **Master of Science** (2004-2006): (Molecular Biology and Biotechnology), Tezpur University, India.
- ✓ **Bachelor of Science** (2000-2003): (Zoology), St. Columba's College, Vinoba Bhave University, India.

## Honors & other scientific recognitions:

1. Qualified Biotechnology Entrance Test (**DBT-BET**), in 2005, conducted by Department of Biotechnology, Government of India (**AIR-23**).
2. Qualified National Eligibility Test for Lectureship (**NET-LS**) in December 2005, jointly conducted by Council for Scientific and Industrial Research (CSIR) and University Grants Commission (UGC), Government of India.
3. Qualified **GATE** conducted by IIT, Kharagpur, India, 2006 (**AIR-161**).
4. Qualified All India M.Sc. DBT entrance Exam. 2004, conducted by Jawaharlal Nehru University, India.
5. Received **Travel award** from **Society of Glycobiology** for attending the joint meeting of the Society For Glycobiology and American Society for Matrix Biology, 2012.

## Professional Experience:

Assistant professor: Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune  
(August 2014 till Present)

## Publications:

1. **Amit Ranjan**, Rajiv Kalraiya “Invasive potential of melanoma cells correlates with the expression of MT1-MMP and regulated by modulating its association with motility receptors via N-glycosylation on the receptors”, **BioMed Research International (Accepted 22, July, 2014)**.
2. **Amit Ranjan**, Sanjay M. Bane, Rajiv Kalraiya “*Glycosylation of the laminin receptor ( $\alpha3\beta1$ ) regulates its association with tetraspanin CD151: Impact on cell spreading, motility, degradation and invasion of basement membrane by tumor cells*” **Experimental Cell Research**, Volume 322, Issue 2, 1 April 2014, Pages 249–264 (DOI 10.1016/j.yexcr.2014.02.004).
3. **Amit Ranjan**, Rajiv Kalraiya “*Alpha 2,6 sialylation associated with increased  $\beta1,6$  branched N-oligosaccharides influences cellular adhesion and invasion*” **J Biosci** **38(5)**, December 2013, 1-10 (DOI 10.1007/s12038-013-9382-z)
4. **Amit Ranjan**, Rajiv Kalraiya “*Glycosylation of laminin receptor integrin ( $\alpha3\beta1$ ) regulate their association with tetraspanin CD151 and thus motility/invasion on basement membrane component (matrigel)*” **Glycobiology**, (2012) 22(11): 1487-1661 doi:10.1093/glycob/cws127 (**abstract**).
5. **Amit Ranjan**, Akhauri Yash Sinha, Badrinath Dubey, Ankur Saikia, Alak Kumar Buragohain and Suvendra Kumar Ray “*Analysis of Bacterial Genomes for In-frame Dinucleotide Abundance, Abundance of the Encoded Amino Acids and Synonymous Codon Choice Reveals a Common Pattern*” **Current science**, vol. 94, no. 2, 25 january 2008.

## Workshops/Conferences Attended:

1. Presented Poster at 33<sup>rd</sup> All India Cell Biology Conference (AICBC, Dec., 2009) held at University of Hyderabad, Hyderabad, India. **Title - Role of  $\alpha2,6$  linked sialic acid substituted  $\beta1,6$  branched N-Linked oligosaccharides in modulating cellular adhesion.**
2. Presented Poster at the Joint meeting of the Society For Glycobiology (SFG) and American Society for Matrix Biology (ASMB) held at hotel Sheraton and Marina, San Diego, California, USA (10-14<sup>th</sup> November 2012). Title-**Glycosylation of laminin receptor integrin ( $\alpha3\beta1$ ) regulates their association with tetraspanin CD151 and thus motility/invasion on basement membrane component (matrigel).**