

CURRICULUM VITAE

KINSHUK CHANDRA NAYAK

Laboratory Technician
In-Charge IPR Cell
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M.Sc. (Statistics), B.Sc. Mathematics
Diploma in Computer Application

Area of Research Work:

Multivariate statistical analysis of synonymous codon usage and amino acid usages in prokaryotes and eukaryotes. Comparative bioinformatics and statistical analysis of genome sequences for estimating selection pressures or evolutionary constraints.

Publications:

2017

1. Gaurav Sablok*, Ting-Wen Chen, Chi-Ching Lee, Chi Yang, Rwei-Chi Gan, Claudio Varotto, **Kinshuk C. Nayak**, Po-Jung Huang, Jill Wgerzyn, Petrus Tang ChloroMitoCU: Codon patterns across organelle genomes for functional genomics and evolutionary applications. *DNA Research*, 24(3): 327–332,
2. S.Jena, S.Panda, **Kinshuk C. Nayak**, Durg V. Singh*. Identification of Major Sequence Types among Multidrug-Resistant Staphylococcus epidermidis Strains Isolated from Infected Eyes and Healthy Conjunctiva, *Frontiers Microbiology*, doi:10.3389/fmicb.2017.01430

2013

1. **Kinshuk Chandra Nayak*** (2013) Comparative genome sequence analysis of *Sulfolobus acidocaldarius* and 9 other isolates of its genus for factors influencing codon and amino acid usage. *Gene* 513, (1) 163-173.
2. Gaurav Sablok, **K. C. Nayak**, E. Potenza, G. Emiliani, N. La Porta (2013). Multivariate analysis revealed translational selection and mutational bias in *Heterobasidion irregulare* destructive fungal pathogen of conifers in the Boreal hemisphere. *Genomics and Plant-Pathogen Interactions, XIII Conference Root and ButRot of Forest Trees IUFRO Working Party 7.02.01* ISBN 978-88-6655-352-6 (print), ISBN 978-88-6655-353-3 (online) © 2013 Firenze University Press
3. Gaurav Sablok, XianMing Wu, Jimmy Kuo, **Kinshuk Chandra Nayak**, Vesselin Baev, Claudio Varotto, Fenfeng Zhou (2013). Combinational effect of mutational bias and translational selection for translation efficiency in tomato (*Solanum lycopersicum*) cv. Micro-Tom. *Genomics*, 101(5) 290-95.

2012

1. **Kinshuk Chandra Nayak*** (2012) Comparative study on factors influencing the codon and amino acid usage in *Lactobacillus sakei* 23K and 13 other *lactobacilli*. *Mol. Biol. Rep. (Springer)*, 39, (1) 535-545.

2011

1. Gaurav Sablok, **Kinshuk Chandra Nayak**, Franck Vazquez, Tatiana V.Tatarinova. (2011) Synonymous codon usage, GC3 and Evolutionary patterns across plastomes of three pooid model species - Emerging grass genome models for monocots. *Molecular Biotechnology*, 49, (2) 116-128.
2. Bijay Misra, Chittaranjan Panda, Haribhakti Seba Das, **Kinshuk Chandra Nayak**, Shivaram Prasad Singh. Study on awareness about hepatitis B viral infection in coastal eastern india. *Hepatitis B Annual 2011*, 6:19-28, DOI: 10.4103/0972-9747.76902.

2010

1. **Kinshuk C. Nayak***, (2010) Mutational bias and Gene expression level shape codon usages in *Thermobifida fusca* YX. *In Silico biology*, 9: 337-353.

2009

1. Pandey SK, Narayan KD, Bandyopadhyay S, **Nayak KC**, Das SK (2009) Thiosulfate oxidation by *Comamonas* sp. S23 isolated from a sulfur spring. *Curr Microbiol*, 58(5):516-21
2. Sujogya K. Panda, V. Joyti, Bhaskar Bhadra, **Kinshuk C. Nayak**, Sisinthy Shivaji, Fred A. Rainey and Subrata K. Das*(2009). *Thiomonas bhubaneswarensis* sp. nov., a novel chemolithoheterotrophic, moderately thermophilic, thiosulfate oxidizing bacterium. *International Journal of Systematic and Evolutionary Microbiology (IJSEM)*, 59: 2171-2175.

• Reviewer in Scientific Journals (2009-2014)

1. Bioinformatics and Biology Insights (*Libertas Academica*)
2. Biomedical Engineering and Computational Biology (*Libertas Academica*)
3. Evolutionary Bioinformatics (*Libertas Academica*)
4. Microbiology (SGM journals)

• Editor for Annual Reports for ILS (2013-14, 2014-15)

• Working experience in previous organizations as Statistical Investigator

1. National Sample Survey Organization, (NSSO), Panaji, Goa, Under Ministry of Statistics and Programme Implementation, **Govt. India**.
2. Population Research Centre, Ministry of Health and Family Welfare, **Govt. of India**, Utkal University
3. Zenith Corporate Services Pvt.Ltd, Hyderabad

- **Training attended for IPR (patent) filing and prosecution (Year 2010, 2013)**

1. At National Institute of Intellectual Property Management (NIPM, Nagpur), under Government of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion

- **Workshops Organized**

Workshop organized on “**Interfacing Innovation & IPR for Technology Commercialization**” at ILS on 21st March 2015 in collaboration with National Research Development Corporation (NRDC), (An Enterprise of Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India),

- **Educational/Academic Qualifications**

Exam Passed	Board/University	Year passing & Division Passed	Subjects studied
H.S.C	B.S.E (Odisha)	1988	Science, Mathematics (Special Paper), Geography
H.S.E	C.H.S.E (Odisha)	1990	Physics, Chemistry, Mathematics, Botany, Zoology
B. Sc (Mathematics)	Utkal University (Bhubaneswar)	1993	Physics, Chemistry, Mathematics (Special Paper)
M.Sc (Statistics)	Utkal University (Bhubaneswar)	1996	Math. Statistics, Probability Theory, Linear Algebra, Linear Model, Decision Theory , Reliability, Stochastic Process, Operation Research, Design and Analysis of Experiments (Special Paper)
Diploma in Computer Application	Megabyte Computer Academy, Kendrapara College	1993	DBASE, LOTUS 1-2-3, BASIC, FORTRAN