SANGRAM KESHARI SAHU

Date of Birth: 11/09/1994 (Age 23) Address: IISER, Mohali, Punjab, India

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RESEARCH EXPERIENCE

 Project (May'17 to Present): Cell type-specific transcriptome profiling of Shoot Apical Meristem (SAM) in the model plant *Arabidopsis thaliana* using RNA-Seq experiment and finding LncRNAs and microRNAs involved in cell differentiation. Also worked on Gene Regulatory Network (NGR) and developed Web-Application. (Dept. Of Biotech DBT, Govt. of India funded Project)

Supervisor: Dr Ram Yadav (ryadav@iisermohali.ac.in)

Indian Institute of Science Education and Research (IISER), Mohali, Punjab

• M.Sc. Thesis (Nov'2016 – May'2017): A transcriptomic study on cold stress in two Indian rice (*Oryza Sativa*) varieties using RNAseq analysis.

Supervisor: Dr Basant k. Tiwary (basant@bicpu.edu.in)

Centre for Bioinformatics, Pondicherry University, Pondicherry, India.

• Summer Internship (2016): Mahseer cold fish genomic DNA extraction, Develope Primer design Perl script, and downstream genome analysis with CLC Workbench.

Supervisor: Dr Mastaque A. Laskar

At St. Anthony's College, DBT-DST project lab, Shillong, Meghalaya, India.

• Undergraduate project (2015): Study on the different kind of medicinal plants found in regions of Ganjam district, Odisha.

Supervisor: Dr Bijaya Kumar Mohanty. HOD, Dept. of Botany, **Khallikote Autonomous College**, Berhampur, Odisha, India.

EDUCATION

2015-2017	Master's Degree in Bioinformatics (CGPA 8.5/10)
	Pondicherry University, India
2012-2015	Bachelor's Degree in Botany Honours
	Khallikote Autonomous College, Berhampur, India
2010-2012	Higher Secondary Education
	Khallikote Junior College, Berhampur, India

• PG Diploma in Biotechnology

Pondicherry University in 2016.

• DOEACC "O"-level Advanced Computer Examination

By NIELIT, Govt. of India in 2014.

• Post-Graduate Diploma in Computer Application

From Odisha Computer Academy in 2013.

RESEARCH AREA OF INTEREST

- Computational Genomics. NGS data analysis (RNA-seq, Chip-seq, Hi-C) and its applications.
- Systems Biology and Network analysis.
- Algorithm development and Web-tool design for Biological applications.

COMPUTATIONAL SKILLS

- **Programming Languages:** C/C++, BASH, Python, Perl and R Language.
- Operating Systems: Linux (Ubuntu and Fedora), Windows, Mac.
- Front End: HTML, Markdown.
- Backend: PHP, RDBMS, SQL and MS Excel, Github.
- Databases and Web Server: MySQL, Apache and XAMPP.

BIOINFORMATIC SKILLS

- Multi-Omic High-Throughput Sequencing: Genomics and Transcriptomics.
- Databases: PDB, NCBI-SRA, GEO, EMBL-ENA, TAIR, PLAZA.
- Sequence Retrieval Tools: Entrez, SRA toolkit.
- Structural Bioinformatics: Molecular Dynamic Simulation and Docking.

MOLECULAR BIOLOGY TECHNIQUES

- Electrophoresis.
- Chromatography.
- PCR (Gradient, Real-time and Colony PCR).
- DNA and RNA extraction.

POSTER PRESENTATION

- A transcriptomic study on cold stress in two Indian rice (*Oryza Sativa*) varieties using RNAseq. (Abstract Proceedings: https://doi.org/10.24870/cjb.2017-a187)
 NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, from Oct 2nd 4th 2017 in Bhubaneswar, Odisha.
- Bioinformatics approaches to CRISPR-Cas9 technology A review Indian Science Congress, Pondicherry Chapter on 27th February 2017.

- Merit scholarship in Higher Secondary Education. (2011-2012)
- Medhabruti Scholarship from Odisha Govt. (2013-2015)
- Full Scholarship to attend NGBT 2017 conference in Bhubaneswar, Odisha, India.
- Scholarship for Outreach participant in Computational Science Symposium 20017 at IISc, Bengaluru, India.

SEMINAR AND CONFERENCES

- NextGen Genomics, Biology, Bioinformatics and Technologies (**NGBT**) Conference, from Oct 2nd 4th 2017 in Bhubaneswar, Odisha.
- "Computational Science Symposium" Outreach participate IISc, Bengaluru in March 2017
- "National Workshop on Data Science Research and Biological Data Management" by DST, Govt. Of India. January 2017 at Trichy, India.
- "Molecular Dynamics and Simulation" Workshop by Dr Debanath Pal Centre for Bioinformatics, Pondicherry University in November 2016.
- "Recent trends on Computational Chemistry and Drug Design"
 By DBT, India at Khallikote Autonomous College in 2013.
- **Indian Science Congress**, lifetime member and a regular participant on every annual program.

REFERENCE

Dr Ram Yadav

Plant genetics and development lab, Dept. of Biological Sciences Indian Institute of Science Education and Research (IISER), Mohali, Punjab, India. Contact: ryadav@iisermohali.ac.in

• Dr Basant K. Tiwary

Centre for Bioinformatics, Pondicherry University, Pondicherry, India Contact: basant@bicpu.edu.in

DATE AND SIGNATURE:

1-09-2018