

Vivekanand A

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Date of Birth	1990 June 25 st		
Nationality	Indian		

Education

2011–2013	MSc. Bioinformatics, Amrita VishwaVidyapeetham, Amritapuri Campus, Kerala. Percentage of Marks: 66
2008–2011	BSc. Microbiology, Amrita VishwaVidyapeetham, Amritapuri Campus, Kerala. Percentage of Marks: 60

Past Scientific Positions

2017–2018	Research Fellow at Indian Institute of Technology , Delhi, India
2017–2017	Research Assistant at Indian Institute of Science , Bengaluru, India
2014–2017	Research Fellow at Rajiv Gandhi Centre for Biotechnology , India

Research Interests

- Investigating the potential role of genetic variants in relation to biological function and disease.
- Genomics and transcriptomics; in particular the study of Super-enhancers, non-coding RNAs, RNA-binding proteins and transposable elements.
- The application of bioinformatics using Next Generation Sequencing and statistical data analysis methods to answer biological problems.

Bioinformatic Skills

- Data analysis of high-throughput sequencing data including DNA-seq, RNA-seq, CAGE-seq, ChIP-seq, Microarray and Array-CGH.
- Experience in sequence analysis for detecting high confidence motifs statistically (Fisher's Exact, in reference to peer reviewed publication no. 2).
- Experience in extensive bio-curation and perl programming (In reference to peer reviewed publication no. 2 and 3).
- Proficiency in working with Python and Bio-python in pattern matching of RNA binding proteins and miRNA targeting studies.
- Knowledge and the ability to use various bioinformatic databases, APIs, repositories, and tools.
- Ability to implement bioinformatic pipelines using pipelining tools.

Computer Skills (Proficiency ordered from left to right)

- Operating systems: Linux/Unix (RHEL/CentOS and Ubuntu), OS X, and Windows
- Programming/scripting languages: R, Perl, Python, Bash, SQL, PHP and Matlab
- Reproducible research tools: Git, Cloud computing (AWS and Digital Ocean), Markdown, and R Markdown

Honours and Awards

2016	Selected candidate for Sakura Science Program (Japan Asia Youth Exchange Program in Science) hosted by Japan Science and Technology (JST) at Okayama University, Japan.
2015	Awarded International Travel Grant from Department of Biotechnology, India to attend a conference, RECOMB-15 held at Warsaw, Poland.
2014	Organizing member in NGS- 15, Next Generation Sequencing Data Analysis Workshop hosted by EMBL-EBI and Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India.

Mentoring and Teaching experience

2017–2018	Experience as Teaching Assistant for B-Tech/M-Tech/Ph.D. students at IIT Delhi.
2014–2017	Teaching faculty for Bioinformatics Internship Program at Rajiv Gandhi Centre for Biotechnology.
2014–2017	Teaching faculty for Bioinformatics coursework for Ph.D. students at Rajiv Gandhi Centre for Biotechnology.
2014–2017	Training faculty in Next Generation Sequencing Analysis and Perl-Python workshop series organized by Rajiv Gandhi Centre for Biotechnology.

Seminars, Workshops and Conference Attendances

2016	Cancer Proteogenomics Workshop hosted by Broad Institute of MIT and Harvard and Rajiv Gandhi Centre for Biotechnology, held at Thiruvananthapuram, Kerala, India.
2015	Vivekanand A, Rajesh Raju, Sreenivas KP, Reshmi G, Pillai R. “Regulatory Map of Deptor” at IACR (Indian Association of Cancer Research), held at Jaipur, Rajasthan, India.
2015	Vivekanand A, Reshmi G and Pillai MR. “miRBP: An architecture to find competitive interaction between microRNA and RNA binding proteins” at RECOMB- 15, 19th Annual International Conference on Research in Computational Molecular Biology, held at Warsaw, Poland.
2014	NGS- 15, Next Generation Sequencing Data Analysis Workshop hosted by EMBL-EBI and Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India.
2012	NANOBIO 2012: Second International Conference on Nanotechnology, Amrita Institute of Medical Sciences, Cochin, Kerala, India.
2011	Proteomics and Genomics workshop organized by Institute of Bioinformatics, Bangalore and Amrita Vishwa Vidyapeetham, Amrita School of Biotechnology, Amritapuri, Kerala, India.

Academic References

Dr. Reshmi G
Former Scientist
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Dr. Vinod Chandra S. S.
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Peer Reviewed Publications and Book Chapters

1. Bijesh George, Vivekanand Ashokachandran, Aswathy Mary Paul, Reshmi Girijadevi, "Transcriptome Sequencing for Precise and Accurate Measurement of Transcripts and Accessibility of TCGA for Cancer Datasets and Analysis", **InTech publications**, 2016, December ISBN 978-953-51-5452-5 (Book chapter)
2. Kandala DT, Mohan N, Asokachandran V, Sudheesh AP, Girijadevi R, Laishram RS. "CstF-64 and 3'-UTR cis-element determine Star-PAP specificity for target mRNA selection by excluding PAP," **Nucleic Acids Res.**, 2016 Jan 29; 44(2):811-23
3. Raju R, Paul AM, Asokachandran V, George B, Radhamony L, Vinaykumar M, Girijadevi R, Pillai MR. "The Triple-Negative Breast Cancer Database: an omics platform for reference, integration and analysis of triple-negative breast cancer data". **Breast Cancer Res.**, 2014 Dec 4; 16(6):490
4. Vinitha A, Kutty VR, Vivekanand A, Reshmi G, Divya G, Sumi S, Santosh KR, Pratapachandran NS, Ajit MS, Kartha CC, Ramachandran S. "PPIA rs6850: A > G single- nucleotide polymorphism is associated with raised plasma cyclophilin A levels in patients with coronary artery disease". **Mol Cell Biochem.**, 2016 Jan; 412(1-2):259-68