® 91-9490823072

https://www.linkedin.com/in/suresh-kumar-sv-00a602b3

digibio.blogspot.com

## Key words

Genomics, transcriptomics, NGS, Cancer panels, cardiovascular diseases, AGTRs, GPCRs, fungal enzymes, Business analysis, R/BioC, Team management, Project management *Key skills* 

Genomics (translational and clinical), Transcriptomics (3' IVT, exon and microRNA), NGS pipeline, Sequence analysis, Product management, Team management, Business analysis. <u>Experience</u>

· ·	
June, 2016- Nov, 2016	Team Manager, Cognizant Technology Solutions India Pvt Ltd, Mumbai
Oct, 2014- June, 2016	Senior Scientist and Consultant, Virtue biologics, Hyderabad
June, 2013-	I worked as senior scientist and consultant director for a bioinformatics startup based in Hyderabad, Telangana. Microarray and qPCR data analysis pipelines were established. Bioinformatics infrastructure for workshops and academic training were set up. Workshops/ training programs on NGS (WES and RNA-seq) were conducted for PhD/MSc students employing R/bioconductor.  Scientist II (functional lead), Genome Lifesciences, Chennai, India (Parent
Sep,2014	company: Genome International Corporation, WI,US)
	I worked as senior scientist cum functional lead for NGS clinical data analysis services and product development. Responsibilities involved NGS clinical data analysis for international clients, implementation of NGS data analysis pipelines for WES, WGS and RNA-seq, implementation of GATK best practices work flows, clinical annotation and classification of variants
July, 2011- May, 2013	Bioinformatics analyst II, SemanticBits Indiapvt Itd, Hyderabad, AP (Parent company: Semanticbits, Herndon, US)
	I worked as bioinformatics analyst for Clinical genomicist workstation™, now marketed by PierianDx, US. Responsibilities included bioinformatic analysis and clinical annotation ofhuman genomic variants for comprehensive cancer and EOAD panels using NGS clinical data.Reporting clinically significant variants forsingle, Tumor Vs normal, pedigree and Trios specimens as per HL-7 clinical genomics standards. I am also involved in business analysis of product development including functional requirement collection, documentation, functional testing and test cycle management.
Aug, 2008- June, 2010	Sr. scientist II (bioinformatics), Strand Lifesciencespvt ltd, Bangalore, KA
	I worked as senior scientist in implementing Affymetrix™ exon and SNP chip data analysis workflows for transcriptomic and genomic studies. I implemented genotyping algorithms, BRLMM, Segmentation algorithms

	such as GISTIC, CBS in GenespringGXcollaborating with developer team.  Research activities involved omics data analysis from multiple cancer studies
	from GEO and EXPO
Products	Genome explorer™ & IGR™, GLC-GIC, Chennai, India
	Clinical genomicist work station™ , SB, Hyderabad
	GenespringGx™, Mass profiler Pro™, SLS, Bangalore
Research exp	<u>perience</u>
2005-2008	Post-doctoral fellow, Cleveland Clinic Foundation, Cleveland, USA
1999-2005	PhD, IIT Bombay, Mumbai
1998	MSc Project, ICRISAT, Hyderabad, AP
Projects	MicroRNA (miRNA) signaling networks in end stage human heart failure
	Signaling networks and pathways in end stage transgenic mouse heart
	failure using microarrays
	Sequence analysis and phylogenetic studies of GPCRs
	Laccase purification, identification and characterization from A.niger
	Sequence, structure and phylogenetic analysis of fungal and plant laccases
	Identification of molecular markers in <i>C. graminicola</i> using RAPD, RFLP and
	AFLP

### **Publications**

- Clinical genomicist workstation, Surampudi S et al., AMIA Summits TranslSci Proc. 2013 Mar 18;2013:156-7
- A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signalling networks, Venkata Suresh K. Surampudi et al., PLOS, 2016 (submitted).
- Isolation of genomic DNA from acetone-dried Aspergillus mycelia, Punekar, N. S., Suresh Kumar S.V., Jayashri, T.N., and R. Anuradha., Fungal Genet. Newsl. 2003, 50:15-16
- Combined sequence and structure analysis of the fungal laccase family, S V Suresh Kumaret al, Biotechnology and Bioengineering, 83 (4), 386 394

## <u>Abstract</u>

• Too "DRY" GPCRs: sequence analysis of GPCRs. LRI annual symposium, 2005

## <u>Symposia</u>

- NHLBI's PGA Symposium, "From Genome to Disease II: A Symposium of High Throughput Biology", Natcher Conference Center, National Institutes of Health Bethesda, Maryland, 2005.
- Lerner Research Institute 60th Anniversary Symposium, 2005

#### Teaching

- Teaching assistant, Bioschool, IITB, Mumbai (PG Course: Computers in Biology I & II, 1999-2000).
- Bioinformatics support, Continuing Education Program workshop (Bioinformatics), IITB, Mumbai (2001)

- Bioinformatics support, Bioinformatics workshop, CDAC, Pune (2001).
- Invited seminar on sequence, structure and functional analysis of proteins and genes, Advanced P G Diploma in bioinformatics, IICT, Hyderabad (2001)
- Guest faculty (bioinformatics), Diploma in Bioinformatics, SSI, Ghatkopar, Mumbai (2004).

## Fellowships and academic achievements

- CSIR- JRF and GATE -98
- Dept of Biotechnology (India) Fellowship (96-98), Telugu vignanaparitoshikam (1987-'89)
- University 3rd (MSc, CEEB-Biotechnology)
- State 3rd in Dwiteeya (sanskrit)
- Certificates in USO, APPLA, RRMI, TTD dharma pracharaparishad

## Key skills

# **Bioinformatics:**

Expertise in Standards	Sequence analysis, Phylogenetics, Micro array data analysis - (SNP, 3' IVT, Exon and miRNA), NGS data analysis (WES, Cancer exome, RNA-seq), GATK best practice work flow for WES and RNA-seq, Clinical variant db (Clinvar, HGMD, COSMIC), clinical variant classification HGVS, VCF, HL7 (CG template, Tier 1 and 2 pipelines)	
Tools	Genespring GX <sup>™</sup> , Vector NTI, Mac Vector 7 <sup>™</sup> , R/Bioc, Gene sifter <sup>™</sup> , Ingenuity Pathway analysis <sup>™</sup> , Lucidyx <sup>™</sup> , Affymetrix genotype console <sup>™</sup> , IGV, Netaffx <sup>™</sup> , Samtools, VCFlib, BED tools, SNPeff, ENSEMBL-VEP, Genome explorer <sup>™</sup> , GATK, PICARD tools, BPIPE and GEMINI.	
Panels	Comprehensive cancer, lung cancer, EOAD panel	
NGS analysis	WES, RNA-seq	
IT:		
OS	Windows, Linux (CentOS, RHEL, Ubuntu), OS X, FreeBSD	
DB	Oracle 12g express, MS Access	
Office	MS office, iWorks, Open and Libre office	
Cloud/cluster	AWS-Starcluster architecture, openlava 2.x	
Project management	Bioinformatics SDLC (Argo UML, JIRA, Balsamiq, JIRA-Zephyr, Testlink and JIRA)	
Scripting	Bash, Python/biopython	
Documentation	RFQ and RFP documentation	
Other details		

## **Declaration**

Marital status Languages Married

Telugu, Hindi and English

I declare that the above information provided is true to the best of my knowledge.

(S V Suresh Kumar)