

## Suresh Kumar S V, PhD

### Bioinformatics scientist, Advaitabio

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#### Key skills

Genomics, transcriptomics, Metagenomics, NGS Workflows, Snakemake, Galaxy, Dockerization, Software prototyping, Business requirement analysis, Bioinformatics Product and service delivery, Agile SDLC, Team management, Tertiary analysis, Capsule CRM

#### Products and services

<u>Products</u>	iPathway Guide, iVariant Guide, Advaitabio, MI, US
	Designstudio™, Navipointhealth Inc, India
	Genome explorer™ & IGR™, GLC-GIC, Chennai, India
	Clinical genomicist work station™, SB, Hyderabad
	GenespringGx™, Mass profiler Pro™, SLS, Bangalore

<u>Services</u>	Bioinformatics data analysis services, Navipointhealth Inc (India), Hyderabad
	Bioinformatics data analysis services, GLC-GIC, Chennai, India

<u>R-shiny apps</u>	COVID-19 status across world ( <a href="https://suressv.shinyapps.io/covid19_19042020/">https://suressv.shinyapps.io/covid19_19042020/</a> )
	COVID-19 status in India ( <a href="https://suressv.shinyapps.io/india_covid_03052020/">https://suressv.shinyapps.io/india_covid_03052020/</a> )
	Basic volcano plot ( <a href="https://suressv.shinyapps.io/expression_plots/">https://suressv.shinyapps.io/expression_plots/</a> )
	DNA and Peptide sequence simulator ( <a href="https://suressv.shinyapps.io/aa_nt_seq_simulation_31052020/">https://suressv.shinyapps.io/aa_nt_seq_simulation_31052020/</a> )

#### Industrial experience, post PhD

April 2022	Bioinformatics scientist, Advaitabio, MI, USA
Nov, 2019 - Apr, 2022	Chief Bioinformatics Officer, Navipointhealth Inc (India), Hyderabad, India
Sep, 2018 – Nov, 2019	Bioinformatics manager, Bioserve Biotechnologies India Private limited (A Reprocell™ company), Hyderabad, India Bioinformatics manager, Navipointhealth Inc (India), Hyderabad,

	India
June, 2016- Nov, 2016	Team Manager, Cognizant Technology Solutions India Pvt Ltd, Mumbai, India
Oct, 2014- June, 2016	Senior Scientist and Consultant, Virtue biologics, Hyderabad, India
June, 2013- Sep, 2014	Scientist II (functional lead), Genome Lifesciences, Chennai, India (Parent company: Genome International Corporation, WI, US)
July, 2011- May, 2013	Bioinformatics analyst II, SemanticBits India private limited, Hyderabad, AP, India (Parent company: SemanticBits, Herndon, US)
Aug, 2008- June, 2010	Sr. scientist II (bioinformatics), Strand Lifesciences private limited, Bangalore, KA, India

### Publications

- Parvez MK, Jagirdar RM, Purty RS, Venkata SK, Agrawal V, Kumar J and Tiwari N: COVID-19 pandemic: Understanding the emergence, pathogenesis and containment (Review). World Acad Sci J 2: 18, 2020
- A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signaling networks, Naga Prasad SV, Gupta MK, Duan ZH, Surampudi VSK, Liu CG, et al. (2017) A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signaling networks. PLOS ONE 12(3): e0170456.
- Clinical genomicist workstation, Surampudi S et al., AMIA Summits TranslSci Proc. 2013 Mar 18;2013:156-7 (not first author)
- Isolation of genomic DNA from acetone-dried Aspergillus mycelia, Puneekar, 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 Kumar et al, Biotechnology and Bioengineering, 83 (4), 386 – 394

### Abstract

- Too “DRY” GPCRs: sequence analysis of GPCRs. LRI annual symposium, 2005

### Symposia

- 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

### Research experience

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 heart failure transgenic mouse models, using mouse genomic 3'–IVT microarrays
	Sequence analysis and phylogenetic studies of GPCRs
	Laccase purification, identification and characterization from <i>A. niger</i>
	Sequence, structure and phylogenetic analysis of fungal and plant laccases
	Identification of molecular markers in <i>C. graminicola</i> using RAPD, RFLP and AFLP

#### Fellowships and academic achievements

- Telugu vignana paritoshikam (1987- '89) (AndhraPradesh)
- Dept of Biotechnology (India) Fellowship (96-98) in MSc Biotechnology
- University 3rd (MSc Biotechnology, University of Calicut, Kerala)
- CSIR- JRF and GATE -98 fellowship for lifesciences qualified
- District 1<sup>st</sup> in science fair 89, Kalyanadurgam, Anantapur
- District 1<sup>st</sup> in Science Quiz 89, Hindupur, Andhrapradesh, India
- College 3<sup>rd</sup> in Vivenkananda memorial Quiz, 1994, Nellore, Andhrapradesh, India
- State 3rd in Dwitiya (Sanskrit)
- Certificates in USO, APPLA, RRMI, TTD dharma prachara parishad

#### Other details

Nationality	Indian
Marital status	Married
Languages	Telugu, Hindi and English