


## S Venkata Suresh Kumar, PhD

Chief Bioinformatics Officer, Navipointgenomics India

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 91-9490823072

 <https://www.github.com/svsuresh>

 <https://ssvbio.github.io/>

### Key skills

Human, mouse and fungal genomics and transcriptomics, Metagenomics, NGS Workflows, Wireframes, Business analysis, Product and service delivery, Bioinformatics/Genomics SDLC, Team management, Tools and Workflow containerization

### Products and services

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| <u>Products</u> | Designstudio™, Navipointgenomics India Private Limited, India |
|                 | Genome explorer™ & IGR™, GLC-GIC, Chennai, India              |
|                 | Clinical genomicist work station™, SB, Hyderabad              |
|                 | GenespringGx™, Mass profiler Pro™, SLS, Bangalore             |

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| <u>Services</u> | Bioinformatics core services, Navipointgenomics India Private Limited, India |
|                 | Bioinformatics data analysis services, GLC-GIC, Chennai, India               |

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| <u>R-shiny apps</u> | COVID-19 status across world<br>( <a href="https://suressv.shinyapps.io/covid19_19042020/">https://suressv.shinyapps.io/covid19_19042020/</a> )                                 |
|                     | COVID-19 status in India<br>( <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<br>( <a href="https://suressv.shinyapps.io/aa_nt_seq_simulation_31052020/">https://suressv.shinyapps.io/aa_nt_seq_simulation_31052020/</a> ) |
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### Industrial experience, post PhD

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| November, 2019 -      | Chief Bioinformatics Officer, Navipointgenomics India Private Limited, Hyderabad, India   |
| Sep, 2018 – Nov, 2019 | Bioinformatics manager, Bioserve Biotechnologies India Private limited (A Reprocell™ company), 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) |

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| Aug, 2008-<br>June, 2010 | Sr. scientist II (bioinformatics), Strand Lifesciences private limited, Bangalore, KA, India |
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### 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

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|-----------|---|
| 2005-2008 | Post-doctoral fellow, Cleveland Clinic Foundation, Cleveland, USA |
| 1999-2005 | PhD, IIT Bombay, Mumbai   |
| 1998      | MSc Project, ICRISAT, Hyderabad, AP                               |

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| Projects | <p>MicroRNA (miRNA) signaling networks in end stage human heart failure</p> <p>Signaling networks and pathways in end stage heart failure transgenic mouse models, using mouse genomic 3'-IVT microarrays</p> <p>Sequence analysis and phylogenetic studies of GPCRs</p> <p>Laccase purification, identification and characterization from <i>A. niger</i></p> <p>Sequence, structure and phylogenetic analysis of fungal and plant laccases</p> <p>Identification of molecular markers in <i>C. graminicola</i> using RAPD, RFLP and AFLP</p> |
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### 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

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| Nationality    | Indian                    |
| Marital status | Married                   |
| Languages      | Telugu, Hindi and English |