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Keywords

Genomics, Transcriptomics (Single cell and Bulk RNAseq), Metagenomics, NGS Workflows, Snakemake, Galaxy, Containerization, Software Prototyping, Business Analysis, Bioinformatics Product and Service Delivery, Agile SDLC, Atlassian Tools

Products

iPathwayGuide, iVariantGuide, iScanGuide, Clinical Genomicist Workstation, GeneSpringGX, DesignStudio, Genome-Explorer

Work Experience

1. **Bioinformatics Scientist** — Suvomics Lifesciences, 2025 - current • Hyderabad, India
2. **Bioinformatics Scientist** — AdvaitaBio Corporation, 2022–2025 • AnnArbor, MI
3. **Chief Bioinformatics Officer** — NavipointHealth India Private Limited, 2021–2022 • Hyderabad, TG
4. **Chief Bioinformatics Officer** — Entelechy Global, 2019–2021 • Bangalore, KA
5. **Bioinformatics manager** — Bioserve (Reprocell group company), 2018–2019 • Hyderabad, TG
6. **Team Manager** — Cognizant Technology Solutions India Private Limited, 2016–2016 • Mumbai, MH
7. **Scientist II** — Genome Lifesciences Private Limited, 2013–2014 • Chennai, TN
8. **Bioinformatics Analyst II** — SemanticBits India Private Limited, 2011–2013 • Hyderabad, TG
9. **Senior Scientist II** — Strand Lifesciences Private Limited, 2008–2010 • Bangalore, KA
10. **Post Doctoral Fellow** — Lerner Research Research Institute (CCF), 2005–2008 • Cleveland, OH

Publications

1. 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
2. Naga Prasad SV, Gupta MK, Duan ZH, **Surampudi VSK**, Liu CG, *et al*; A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signaling networks, A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signaling networks. PLOS ONE (2017) 12(3): e0170456
3. Clinical genomicist workstation, **Surampudi S** *et al.*, AMIA Summits TranslSci Proc. 2013 Mar 18;2013:156-7 (contributing author)
4. Punekar, N. S., **Suresh Kumar S.V**, Jayashri, T.N., and R. Anuradha., Isolation of genomic DNA from acetone-dried Aspergillus mycelia, Fungal Genet. Newsl.2003, 50:15-16
5. **S V Suresh Kumar** *et al.*, Combined sequence and structure analysis of the fungal laccase family, Biotechnology and Bioengineering, 83(4), 386 – 394 (2003)

Abstract

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

Symposia

1. 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.
2. Lerner Research Institute 60th Anniversary Symposium, 2005

Research Projects

1. Role of cardiac microRNA in end stage human heart failure, LRI-CCF, Cleveland
2. Transcriptome study of end stage heart failure in transgenic mice, LRI-CCF, Cleveland
3. Sequence and structural motif analysis of GPCRs, LRI-CCF, Cleveland
4. Laccase purification, identification and characterization from *A. niger*, IITBombay, Mumbai
5. Sequence, structure and phylogenetic analysis of fungal and plant laccases, IITBombay, Mumbai
6. Identification of molecular markers in *C. graminicola* using RAPD, RFLP and AFLP, ICRISAT, Hyderabad

Education

1. **Ph.D** — IITBombay, Mumbai, MH• 1999-2005
2. **M.Sc** — Calicut University, Calicut, KL• 1996-1998
3. **B.Sc** — SV University, Tirupati, AP• 1993-1996

Other Details

Nationality: Indian

Languages: English, Telugu, Hindi