

RESUME

- 1. Name** : V.V. Ravikanth
- 2. Designation** : Group Leader - Genetics
- 3. Institute** : Asian Healthcare Foundation/AIG Hospitals
Plot No 2/3/4/5, Survey No 136/1
Mindspace Road, Gachibowli
Hyderabad, Telangana 500032
- 4. Date of Birth (mm/dd/yyyy):** 13/04/1977
- 5. Gender** : Male
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- 8. Education (Post-Graduation onwards and Professional career)**

Degree awarded	Institute/Place	Year	Field of study
PhD	Osmania University	2008	Genetics
M Sc	Osmania University	2000	Genetics
B Sc	Osmania University	1997	Botany, Zoology, Chemistry

9. Employment Details

a) Position and employment (Starting from the most recent employment)

Institution/Place	Designation	From date	To date
Asian Healthcare Foundation	Group Leader - Genetics	June 2012	Till date
Krisani Biosciences Pvt Ltd	Scientist	August 2010	April 2012
Vimta Labs Pvt Ltd	Scientist	September 2008	August 2010

10. Awards/Honours

	No	Description	Awarded by
A) International	1	Pancreas Fest 2016 travel award	CAPER (Collaborative Alliance for Pancreatic Education and Research, USA)
B) National	2	Winmedicare Award for best research in Gastroenterology – 2013, 2017	Indian Society of Gastroenterology

11. Publications

1. Ketavarapu V, **Ravikanth V**, Sasikala M, Rao GV, Devi CV, Sripadi P, Bethu MS, Amanchy R, Murthy HVV, Pandol SJ, Reddy DN. Integration of metabolites from meta-analysis with transcriptome reveals enhanced SPHK1 in PDAC with a background of pancreatitis. *BMC Cancer*. 2022 Jul 19;22(1):792. doi: 10.1186/s12885-022-09816-6.
2. Vankadari N, Ketavarapu V, Mitnala S, **Vishnubotla R**, Reddy DN, Ghosal D. Structure of Human TMPRSS2 in Complex with SARS-CoV-2 Spike Glycoprotein and Implications for Potential Therapeutics. *J Phys Chem Lett*. 2022;13(23):5324-5333. doi: 10.1021/acs.jpcclett.2c00967.
3. Govardhan Bale, Sasikala Mitnala, Nagaraja Rao Padaki, Mithun Sharma, Anand V. Kulkarni, Smita C. Pawar, Nageshwar Reddy D, **Ravikanth Vishnubhotla**. I148M variant of PNPLA3-gene is not associated with metabolic syndrome in patients with NAFLD in the Indian ethnicity. *Human Gene*; 2022. <https://doi.org/10.1016/j.humgen.2022.201073>.
4. Kumar V J, Banu S, Sasikala M, Parsa KVL, Sowpati DT, Yadav R, Tallapaka KB, Siva AB, **Vishnubhotla R**, Rao GV, Reddy DN. Effectiveness of REGEN-COV antibody cocktail against the B.1.617.2 (delta) variant of SARS-CoV-2: A cohort study. *J Intern Med*. 2022;291(3):380-383.
5. **Vishnubhotla R**, Sasikala M, Ketavarapu V, Reddy DN. High resolution HLA genotyping identifies alleles associated with severe COVID-19: A preliminary study from India. *Immun Inflamm Dis*. 2021;9(4):1781-1785.
6. **Ravikanth V**, Sasikala M, Naveen V, Latha SS, Parsa KVL, Vijayasarathy K, Amanchy R, Avanthi S, Govardhan B, Rakesh K, Kumari DS, Srikanan B, Rao GV, Reddy DN. A variant in TMPRSS2 is associated with decreased disease severity in COVID-19. *Meta Gene*. 2021;29:100930. doi: 10.1016/j.mgene.2021.100930.
7. Sasikala M, Shashidhar J, Deepika G, **Ravikanth V**, Krishna VV, Sadhana Y, Pragathi K, Reddy DN. Immunological memory and neutralizing activity to a single dose of COVID-19 vaccine in previously infected individuals. *Int J Infect Dis*. 2021;108:183-186.

8. Banerjee R, **Ravikanth VV**, Pal P, et al. NUDT15 C415T variant compared with TPMT genotyping in predicting azathioprine-induced leucopenia: prospective analysis of 1014 inflammatory bowel disease patients in India. *Alimentary Pharmacology & Therapeutics*. 2020;52(11-12):1683-1694.
9. Talukdar R, Aslam M, Reddy DN, Nabi Z, Shava U, **Ravikanth VV**, Avanthi S, Govardhan B. Pancreas Divisum Increases the Risk of Recurrent Acute Pancreatitis in Patients with rs12338 Polymorphism in the Cathepsin B Gene. *Dig Dis Sci*. 2021 Jul;66(7):2283-2290. doi: 10.1007/s10620-020-06517-7.
10. Zaheer Nabi, Rupjyoti Talukdar, **Ravikanth Venkata**, Mohsin Aslam, Upender Shava, D. Nageshwar Reddy. Genetic Evaluation of Children with Idiopathic Recurrent Acute Pancreatitis. *Dig Dis Sci*. 2020;65(10):3000-3005.
11. **Ravikanth VV**. Next-Generation Sequencing (NGS) in the Prediction of Pancreatic Malignancy: Does Cell Free Mean Error Free? *Dig Dis Sci*. 2020;65(8):2153-2155. Invited Commentary
12. Govardhan Bale, **Vishnubhotla Venkata Ravi Kanth**, Mitnala Sasikala, Mithun Sharma, Padaki Nagaraja Rao, Smita C. Pawar, Duvvuru Nageshwar Reddy. Whole exome sequencing identifies a variant in Phosphatidylethanolamine N-methyltransferase (PEMT) gene to be associated with Lean-Nonalcoholic fatty Liver disease (NAFLD). *J Clin Exp Hepatol*. 2019;9(5):561-568.
13. Bynigeri, R, Mitnala, S, **Vishnubhotla, R**, Talukdar, R, Singh, S, Duvvuru N. Transcriptome Profiles and Gene Expression of Min6 Cells Are Altered by Pancreatic Stellate Cells. *Advances in Bioscience and Biotechnology*. 2018;9:273-288.
14. Govardhan Bale, Urmila Steffie Avanthi, Padaki Nagaraja Rao, Mithun Sharma, Duvvur Nageshwar Reddy, **Vishnubhotla Venkata Ravi Kanth**. Incidence and risk of Gallstone disease in Gilbert's Syndrome patients in Indian population. *J Clin Exp Hepatol*. 2018;8(4):362-366.
15. Avanthi US, Bale G, Aslam M, Talukdar R, Duvvur NR, **Vishnubhotla RV**. PRSS1 (R122H) mutation in an Indian family with low penetrance is associated with pancreatitis phenotype. *Indian J Gastroenterol*. 2018;37(1):67-69.
16. M. Sasikala*, **Ravikanth VV***, Murali Manohar K, Neha Deshpande, Sandhya Singh, Pavan Kumar P, R. Talukdar, Sudip Ghosh, Mohsin Aslam, GV. Rao, R. Pradeep, D. Nageshwar Reddy., Bach2 repression mediates Th17 cell induced inflammation and associates with clinical features of advanced disease in chronic pancreatitis. *United European Gastroenterology Journal* 2018;6(2):272-282.
17. Bale G, Steffie AU, **Ravi Kanth VV**, Rao PN, Sharma M, Sasikala M, Reddy DN. Regional differences in genetic susceptibility to non-alcoholic liver disease in two distinct Indian ethnicities. *World J Hepatol* 2017; 9(26): 1101-1107
18. Neha Deshpande, Radhika Chavan, Govardhan Bale, Urmila Steffie Avanthi, Mohsin Aslam, Mohan Ramchandani, D. Nageshwar Reddy, **V. V. Ravikanth**. Hereditary persistence of alpha fetoprotein is associated with -119 G>A polymorphism in AFP gene. *ACG Case Rep J* 2017;4:e33. doi:10.14309/crj.2017.33.
19. **V. V. Ravi Kanth**, G.V. Rao, B. Govardhan, M. Sasikala, C. Subramanyam, HVV Murthy, Siva Prasad S, Deepika G, Pradeep R, D. Nageshwar Reddy. Polymorphisms in UGT1A1 gene predispose South Indians to pigmentous gallstones. *J Clin Exp Hepatol*. 2016;6(3):216-223.

20. **Ravi Kanth VV**, Sasikala M, Sharma M, Rao PN, Reddy DN. Genetics of non-alcoholic fatty liver disease: from susceptibility and nutrient interactions to management. *World J Hepatol* 2016; 8(20): 827-837
21. Neha Deshpande, Sharanya V., **Ravi Kanth V. V.**, Murthy H. V. V., Sasikala M., Rupa Banerjee, Manu Tandan, Nageshwar Reddy D. Rapid and ultra-rapid metabolizers with CYP2C19*17 polymorphism do not respond to standard therapy with proton pump inhibitors. *Meta Gene* 2016; 9:159-164
22. Steffie Urmila Avanthi*, **V V Ravi kanth***, Jaya Agarwal, Sundeep Lakhtakia, Karthik Gangineni, GV Rao, DN Reddy and Rupjyoti Talukdar. Association of Claudin2 and PRSS1-PRSS2 polymorphisms with idiopathic recurrent acute and chronic pancreatitis: A case-control study from India. *J Gastroenterol Hepatol* 2015;30(12): 1796-1801.
23. Mithun Sharma, Sasikala Mitnala, **Ravi K Vishnubhotla**, Rathin Mukherjee, Duvvur N Reddy, Padaki N Rao. The riddle of Nonalcoholic fatty liver disease: Progression from Nonalcoholic fatty liver to nonalcoholic steatohepatitis. *J Clin Exp Hepatol* 2015; 5(2): 147-158.
24. **V.V. Ravi kanth** and D. Nageshwar Reddy. Role of matrix metalloproteinase in physiological processes and disease. *Indian Journal of Medical Research* 2014;140:30-32. (Invited Commentary)
25. **V. V. Ravi kanth** and D. Nageshwar Reddy. Genetics of acute and chronic pancreatitis – an update. *World journal of Gastrointestinal pathophysiology* 2014;5(4):427-437. (Invited Review)
26. **V.V. Ravi kanth**, M. Sasikala, PN Rao, Urmila Steffie Avanthie, K. Rajender Rao, D. Nageshwar Reddy. Pooled genetic analysis in ultrasound measured NAFLD in Indian subjects: a pilot study. *World Journal of Hepatology* 2014;6(6):435-442.
27. **Ravi Kanth VV**, Bhalsing S, Sasikala M, Rao GV, Pradeep R, Avanthi US, Reddy DN. Microsatellite instability and promoter hypermethylation in colorectal cancer in India. 2014. *Tumour Biol.* 2014; 35(5): 4347-4355.
28. Mahesh K, Kalyana Kumar Ch, **Ravi Kanth**, Laxmi Addala, Sudha Murthy, et al. (2012) Differences in Gene Expression Profiles between Human Breast Tissue and Peripheral Blood Samples for Breast Cancer Detection. *J Cancer Sci Ther* 4: 379-385. doi:10.4172/1948-5956.1000171.
29. **Ravi Kanth VV**, Prakash GJ, Sastry BKS, Sudhir Naik, Nitin Kabra, Sujatha M. Genetic interactions between MTHFR (C677T), Methionine synthase (A2756G, C2758G) variants with vitamin B12 and folic acid determine susceptibility to premature coronary artery disease in Indian population. *J Cardiovasc. Dis. Res.* 2011; 2:156-63.
30. Das JS, **Ravikanth VV**, Sujatha M. Nitric Oxide as a major risk factor for Oxidative stress in Coronary Artery Disease: A preliminary Investigation. *Sci. & Cult.* 2010. 76 5–6); 174-175.
31. Prakash GJ, **Ravi Kanth VV**, Andrew Shilling, Roya Rozati, Sujatha M. Mutational analysis of inhibin alpha gene revealed three novel variations in Indian women with premature ovarian failure. *Fertil Steril.* 2010;94(1):90-8.
32. Prakash GJ, **Ravi Kanth VV**, Andrew Shilling, Roya Rozati, Sujatha M. Absence of

566C>T mutation in exon 7 of the FSHR gene in Indian women with premature ovarian failure. Int J Gynaecol Obstet. 2009;105(3):265-6.

33. **Ravi Kanth VV**, Prakash GJ, Sudhir Naik, Nitin Kabra, Sujatha M. Premature Coronary artery disease: Role of free radical Nitric oxide. Indian Heart J. 2008; 60(1): 45-9.

11. List of ongoing/completed projects in which the applicant has a role of PI/Co-PI:

Sno.	Title of Project	Funding Agency	From	To	Role	Approved Cost (in lakhs)
1	Impact of genetic polymorphisms of CYP2C19 and CYP3A4 on the pharmacokinetics and pharmacodynamics of proton pump inhibitors in Andhra Pradesh population (Telugu origin)	ICMR	2012	2015	Co-Inv	65
2	A global gene expression-based approach to identify a panel predictive of recurrence risk in Colorectal cancer of Indian ethnicity	ICMR	2019	2022	PI	30
3	Whole exome sequencing to identify functionally relevant variants that confer higher susceptibility of hepatic fatty infiltration in the Indian ethnicity	ICMR	2021	2024	PI	35
4	Deciphering the interrelation between gut microbiome dysbiosis, host genetic susceptibility, and diet in the pathogenesis of Indian Lean Non-alcoholic fatty liver disease (NAFLD)	DBT-Centre for Microbial Informatics (DBT-CMI) (approved by the Taskforce, DBT; awaiting	2021	2026	PI (in collaboration with HCU)	63

		financial sanction)				
5	A mechanistic study to explore the relation between dental procedures, metal levels and HLA genotype in the causation of cardiac sarcoidosis	ICMR	2022	2025	Co-Inv	~50

Research Supervisor

Recognized as PhD Research supervisor by Department of Genetics, University College of Science, Osmania University, Hyderabad, Telangana

PhD Students - Ongoing

1. Mr. Govardhan Bale: Title – Identification and functional validation of causal gene variants in Non-alcoholic Fatty Liver Disease
2. Ms. Steffie Avanthi: Title - A Microarray Approach to Understand The Dysregulated Gene(s) and Pathway(s) in Colorectal Cancer

Additional Contributions

1. Trained more than 50 M.Tech/M.Sc students of Biotechnology/Genetics under Biotechnology Consortium of India Limited (BCIL) Dept of Biotechnology (DBT), Government of India and from various national universities for their academic projects.
2. Member-Advisory committee for DBT Postgraduate Program “M.Sc Molecular & Human Genetics” at Institute of Genetics and Hospital for Genetic Diseases, Osmania university, Begumpet, Hyderabad
3. Member-Editorial Board – World Journal of Hepatology