

Dr. Mahaboob Vali Shaik

Professor of Genetics & Research Coordinator,
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Academic Qualifications	Ph.D. in Stem Cell molecular Genetics, Osmania University, Hyderabad (2005-2010). PGDBI (Bioinformatics), Bharathiar University, Coimbatore (2011). M.Sc. (Biotechnology), SVIMS, Tirupati (2001).
Academic/Research Experience :	18 Years
Responsibilities :	<ol style="list-style-type: none">1. Head, Research & Development, NIMS.2. NAAC Coordinator, NIMS.3. Institutional Ethics Committee Member Secretary, NIMS.
Areas of Research :	<ul style="list-style-type: none">• Oncology & Therapeutics• Stem Cell & Regenerative medicine• diabetes & cardiovascular genetic risk assessment
Teaching & Practical Proficiency :	<i>Genetics, Cell Biology, Molecular Biology, Genetic Counseling, Molecular immunology, Molecular Oncology, Stem cell & Regenerative Medicine, Bioinformatics, Bio-statistics & Research Methodology.</i>
Previous Experience	<ol style="list-style-type: none">1. Research Associate, Deccan College of Medical Sciences, Hyderabad (December 2006 to Jan 2011).2. Sr. Scientist/Associate Professor, Dept. of Genetics, Narayana Medical Institutions, Nellore (Feb 2011 to Mar 2020).3. Sr. Scientist, Sankar Foundation Eye Institute, Visakhapatnam.

	(April 2020 to Apr 2022)
Research Grants (s)	<p>Three (3).</p> <ul style="list-style-type: none"> •2016-2018: As Co-PI: International Research Project grant [INR.40,00,000]. Project title: Genetics of Type 2 Diabetes mellitus in India: A Population Specific Family Genetic MultiCentric Study. INDIA-U.S. Bilateral Collaborative Research Partnership (CRP) On Diabetes Research - NIDDK/NIH (U.S.). University of Oklahoma Health Sciences Center, University of Texas Rio Grande Valley, Brownsville and Edinburg, Texas,US. • 2009- 2011: <i>Research Associate Fellowship Grant [INR.600000]. Indian council of Medical Research (ICMR), Govt. of India. Project title: Characterization of Fetal brain neural stem cells. Hyderabad.</i> • 2006-2009: Research Assistant in project entitled “Characterization of hepatic progenitor cells derived from aborted fetal liver”. Deccan College of Medical Sciences, Hyderabad, India.
Total Publications :	95
Number of Scholars supervised :	Two Ph.Ds
Total No. of Grants written & mentored :	90
Awards/ Fellowships:	<ul style="list-style-type: none"> • 2015 National best Paper Award in Indian Society of Cardiology (CSI) held at Chennai, India. Topic: “Role of endothelial progenitor cells and their early senescence in coronary artery disease patients”. • 2015 National best Paper Award in Indian Society of Cardiology (CSI) held at Chennai, India. Topic: “Trace element levels in coronary artery disease patients”. • 2010 National best Paper Award in Indian Society of Gastroenterology (ISGCON) at Hyderabad, India. Topic: “Phenotypic and molecular characterization of fetal liver derived pluripotent stem cells capable of differentiation in to liver and mesenchymal lineages” • 2009; Research Associate Fellowship from the Indian council

	of Medical Research (ICMR), Government of INDIA, New Delhi.
	<ul style="list-style-type: none"> • 2005; University Best outgoing student award from Sri Venkateswara Institute of Medical Sciences, Tirupati, India. • 2005; First Rank in MSc in Biotechnology at University level.
Invited Lecture/Conference/Workshops:	105
Number of Seminars / Conferences / Workshops organized:	120
Technical proficiency:	Cell/Molecular biology Techniques such as Flow cytometry, Advanced Microscopy, Cell & tissue culture, RT-PCR, uHPLC, Atomic Spec, immunology techniques, Proteomics & Genomics techniques, Statistics (SPSS), Bio-informatics Tools.
Refresher Course Organized:	12
Faculty development programmes organized :	45
No. of PhD Thesis evaluated:	18
External Examiner :	50

RESEARCH PUBLICATIONS:

1. Rout M, Ramu D, Mariana M, Koshy T, Venkatesan V, Lopez-Alvarenga JC, Arya R, Ravichandran U, Sharma SK, Lodha S, Ponnala AR, Kumar Sharma K, Mahaboob Vali Shaik, et al. Excess of rare noncoding variants in several type 2 diabetes candidate genes among Asian Indian families. *Communications Medicine*. [nature.com] 2025 Feb 22;5(1):47. <https://doi.org/10.1038/s43856-025-00750-9>
2. Mahaboob V Shaik, Shaik M, Molli N, deepak Kuragayala S, Kola VS. Correlation between glycaemic conditions with SIRT-1 gene expression levels in the progression of diabetic retinopathy. *International Journal of Retina*. 2025 Sep 30;8(2).
3. Shaik MV, Shaik M, Sabinkar B, Molli N. A study on telomere length and 25-hydroxy vitamin D in association with glycaemic status in patients with diabetes mellitus. *Journal of Research in Applied and Basic Medical Sciences*. 2025 Apr 10;11(2):207-18.

4. Shaik, M. V., Shaik, M., Shaik, J. B., G, J., S, B., Molli, N., & Swarna Deepak Kuragayala. (2025). Tumor Necrosis Factor-Alpha Gene Polymorphism in diabetic patients with Respiratory Failure Undergoing Intensive Care Treatment. *Archives of Advances in Biosciences*, 16(1), 1–7.
5. Mahaboob V Shaik, Molli N, Shaik M, Babulal S, Gangapatnam S. Correlation of Vitamin C with Risk Factors of Coronary Artery Disease to Measure the Disease Prognosis to Prepare a Diagnostic Strategy. *Journal of Preventive, Diagnostic and Treatment Strategies in Medicine*. 2024 Jul 1;3(3):188-95.
6. Shaik Mahaboob Vali, Madhuri S, Rohith Karnati, Kuragayala Swarna Deepak, Shaik Munni, Bhakthavatsala Reddy C, BabuLal S, Gangapatnam Subrahmanyam. A Correlative Study of Vitamin D Receptor Variants Fok1, Apa1, Bsm1, and Taq1 Polymorphism and Vitamin D Deficiency with Higher Risk Ratio of Coronary Artery Disease in Female Population. *Romanian Journal of Cardiology* 2023;33 (2):60-66.
7. Shaik MV, Kuragayala SD, Madhuri S, Shaik M, BabuLal S, Gangapatnam S, et al. Association of Vitamin D receptor genetic variant Fok1, Bsm1, Apa1, and Taq1 polymorphism and Vitamin D deficiency with increased incidence of coronary artery disease. *Biomed Biotechnol Res J*. 2023;7:303-11.
8. Venkatesan V, Lopez-Alvarenga JC, Arya R, Ramu D, Koshy T, Ravichandran U, Ponnala AR, Sharma SK, Lodha S, Sharma KK, Mahaboob V Shaik. Burden of Type 2 Diabetes and Associated Cardiometabolic Traits and Their Heritability Estimates in Endogamous Ethnic Groups of India: Findings from the INDIGENIUS Consortium. *Frontiers in Endocrinology*, 2022;14:397.
9. Tanneeru S, Mahendra J, Mahaboob V Shaik. Evaluation of Microflora (Viral and Bacterial) in Subgingival and Placental Samples of Pregnant Women with Preeclampsia with and without Periodontal Disease: A Cross-Sectional Study. *Journal of International Society of Preventive & Community Dentistry*, 2020;10(2):171-176.
10. Shaik MV, Shaik M, Subramanyam G, Gali R. Identification of a subpopulation of chemoresistant cancer cells with adult stem cell properties and embryonic transcription factors in oral squamous cell carcinoma. *Biomedical and Biotechnology Research Journal (BBRJ)*, 2021;5(2):170.
11. Gali RS, Chinnaswamy R, Devireddy SK, Shaik MV, Kumar RV, Kanubaddy SR, et al. Concentrated bone marrow aspirate coated hydroxyapatite for reconstruction of small to moderate sized mandibular defects caused by the removal of benign pathologies. *Contemporary Clinical Dentistry*, 2018;9(4):535.

12. Swetha T, Mahendra, Jaideep, Shaik MV. Viral load on Preeclamptic pregnant women with and without periodontal disease and its effect on pregnancy outcomes-A Cross-sectional study. *International Journal of Medical Science and Innovative Research*, 2019;4(3): 233–241.
13. Tanneeru S, Jaideep, Mahendra, Shaik MV, Mahendra L. Red Complex Bacteria in Preeclamptic Pregnant Women with and without Periodontal Disease: A Cross Sectional Microbiological Study. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2020;11(1):81-88.
14. Shaik MV, Shaik M, Gangapatnam S. Role of essential trace elements and telomere length in endothelial cell senescence in patients with coronary artery disease. *Biomedical and Biotechnology Research Journal (BBRJ)*, 2018;2:290-294.
15. Prathima P, Venkaiah K, Pavani R, Daveedu T, Munikumar M, Gobinath M, Shaik MV, Sainath SB. α -lipoic acid inhibits oxidative stress in testis and attenuates testicular toxicity in rats exposed to carbimazole during embryonic period. *Toxicology reports*, 2017;4:373-381.
16. Mastanvalli B, Kumar KP, Madhav D, Reddy PLVP, Shaik MV. Evaluation of arterial stiffness in nondiabetic chronic kidney disease patients. *Saudi Journal of Kidney Disease and Transplantation*, 2017;28(1):61-67.
17. Shaik MV, Gangapatnam S, Edwin R. A study of Analysis of Endothelial Progenitor cells in Peripheral blood in patients with coronary artery disease. *Journal of Cardiovascular Disease Research*, 2016;7(1):27-31.
18. Subrahmanyam G, Kumar ER, Shaik MV. Trace element levels in coronary artery disease. *Indian Heart Journal*, 2015;67:S132.
19. Shaik MV, Subrahmanyam G, Ravikumar E. Role of endothelial progenitor cells and their early senescence in coronary artery disease patients. *Indian Heart Journal*, 2015;67:s130.
20. Shaik MV, Subrahmanyam G. The Role of Pollution in Coastal Area to Effects on Quality of essential trace elements (Copper, Zinc, Selenium) and pH Levels of Ground Water of Nellore District, Andhra Pradesh, India. *Scholars Academic Journal of Biosciences*, 2014;2(12A):882-886.
21. Satyanand V, Vali SM, Krishna BP. A study of beet root derived dietary nitrate efficacy on performance of Runners. *Indian Journal of Basic and Applied Medical Research*, 2014;3:690-695.
22. Prasanna B, Naimisha M, Jhansi Ch B, Shaik MV. Safety and efficacy of high dose

intravenous iron sucrose for treating anemia in pregnancy. *Scholars Academic Journal of Biosciences*, 2014;2(2B):625-627.

23. Shaik MV and Subrahmanyam G. Analysis of telomere length in the coronary artery to determine the pathogenesis of coronary artery disease. *Journal of Advanced Biotechnology and Experimental Therapeutics*, 2018;1(3):72-77.

24. Shaik MV, Shaik M, Gangapatnam S. Analysis of endothelial progenitor subpopulation cells, oxidative DNA damage, and their role in coronary artery disease. *Biomedical and Biotechnology Research Journal (BBRJ)*, 2018;2:136-141.

25. Shaik MV, Hymavathi K, Subrahmanyam G. Isolation of stem cell populations from wharton's jelly sections of umbilical cord and comparison analysis with cord blood stem cells. *Journal of Advanced Biotechnology and Experimental Therapeutics*, 2018;1(2):36-42.

26. Shaik MV and Subrahmanyam G. Exendin-4, nicotinamide and β -mercaptoethanol based induction differentiation of wharton's jelly tissue mesenchymal stem cells. *Journal of Cell & Tissue Research*, 2017;17(2):6205-6215.

27. Shaik MV, Vishwakarma SK, Bardia A, Tiwari SK, Srinivas G, Raj A, Tripura C, Nallari P, Habeeb MA, Khan AA, Pande G. Isolation and characterization of CD133 cell sub-populations from human fetal liver. *Cell Biology: Research & Therapy*, 2014; S1:006.

28. Naidu M, Kumar S, Vali S, Madhav D, Subrahmanyam G. Study of the role of copper, zinc and magnesium in diabetic nephropathy. *Res. J. Pharm. Biol. Chem. Sci.* 2013;4:72.

29. Khan AA, Shaik MV, Parveen N, Rajendraprasad A, Aleem MA, Habeeb MA, Srinivas G, Raj TA, Tiwari SK, Kumaresan K, Venkateswarlu J, Pande G, Habibullah CM. Human fetal liver-derived stem cell transplantation as supportive modality in the management of end-stage decompensated liver cirrhosis. *Cell Transplantation*, 2010;19(4):409-418.

30. Khan AA, Rajendraprasad A, Parveen N, Shaik MV, Tiwari SK, Srinivas G, Raj TA, Habeeb MA, Pande G, Habibullah CM. In vitro insulin production and analysis of pancreatic transcription factors in induced human hepatic progenitor cells. *Diabetes Technology & Therapeutics*, 2010;12(5):373-378.

31. Khan AA, Parveen N, Shaik MV, Rajendraprasad A, Ravindrakrishna HR, Venkateswarlu J, Rao P, Pande G, Narusu ML, Khaja MN, Pramila R, Habeeb MA, Habibullah CM. Treatment of Crigler-Najjar Syndrome type 1 by hepatic progenitor cell transplantation: a simple procedure for management of hyperbilirubinemia. *Transplantation Proceedings*, 2008;40(4):1148-1150.

32. Khan AA, Parveen N, Shaik MV, Rajendraprasad A, Ravindrakrishna HR,

Venkateswarlu J, Rao SGA, Narusu ML, Khaja MN, Pramila R, Habeeb MA, Habibullah CM. Safety and efficacy of autologous bone marrow stem cell transplantation through hepatic artery for the treatment of chronic liver failure: a preliminary study. *Transplantation Proceedings*, 2008;40(4):1140-1144.

33. Khan AA, Parveen N, Shaik MV, Rajendraprasad A, Ravindrakrishna HR, Venkateswarlu J, Rao P, Pande G, Narusu ML, Khaja MN, Pramila R, Habeeb MA, Habibullah CM. Management of hyperbilirubinemia in biliary atresia by hepatic progenitor cell transplantation through hepatic artery: a case report. *Transplantation Proceedings*, 2008;40(4):1153-1155.

34. Paspala SAB, Murthy TVRK, Shaik MV, Habeeb MA. Pluripotent stem cells - a review of the current status in neural regeneration. *Neurology India*, 2011;59(4):558-565.

35. Habibullah CM, Khan AA, Nyamath P, Shaik MV, Prasad R. T1774 Production of C-Peptide and Pancreatic Gene Expression Analysis in Human Fetal Liver Progenitor Cells. *Gastroenterology*, 2008;134(4).

36. Habibullah CM, Khan AA, Parveen N, Shaik MV, Rajendraprasad A, Habeeb MA. Insulin Production And Pancreatic Gene Expression Analysis In Human Fetal Liver Progenitor Cells. *Journal of Hepatology*, 2008;48.

37. Khan AA, Parveen N, Habeeb M A, Paspala S, Rajendraprasad A, Shaik MV, Khaja MN, Lakshmi N, Pramila R, Habibullah CM. Cell Therapy for Acute Liver Failure - Ideal source of cell. *Journal of Stem Cells & Regenerative Medicine*, 2008;4(1):2-8.

38. Habeeb MA, Khan AA, Parveen N, Baskar S, Shaik MV, Khaja MN, Lakshmi NM, Habibullah CM. Stem cells in hepatobiliary diseases. *Journal of Stem Cells & Regenerative medicine*, 2006;1(1):2-7.

Chapter of Book: Subramanyam, G., & Shaik, M. V. An Update on Stem Cell Scaffolds using Tissue Engineering for Clinical Applications. Technological Innovation in Engineering Research. B P International, Kolkata, West Bengal, India, Vol. 8, September 2022, Page 16-29. <https://doi.org/10.9734/bpi/tier/v8/2960A>].