



School of Studies in Life Sciences

Department of Zoology

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Prof. L.V.K.S. Bhaskar

Professor

Qualifications

Ph.D (Physiology and Endocrinology) - Awarded in December 2002 from Sri Venkateswara University, Tirupati, India.

M.Sc (Zoology) - Got first class in the year 1996, from S.V. University, Tirupati, A.P., India.

P.G. Dip. In Fishery Science and Aquaculture - Got Distinction in the year 1995, from Sri Venkateswara University, Tirupati, India.

B.Sc (Zoology, Botany and Chemistry) - Got first class in the year 1994, from Sri Venkateswara University, Tirupati, India.

Area of Interest/Specialization:

Genetic basis of complex diseases

Experience

Senior Scientist, Sickle Cell Institute Chhattisgarh, Raipur (21st March 2014 to October 2019).

Associate Professor, Department of Biomedical Sciences, Sri Ramachandra University, Chennai, India (December 2012 to February 2014).

Assistant Professor, Department of Biomedical Sciences, Sri Ramachandra University, Chennai, India (June 2007 to December 2012).

Post-Doctoral Fellow, Graduate Institute of Medical Genetics, Kaohsiung Medical University, Kaohsiung, Taiwan (1-1-2009 – 21-5-2009)

Post-Doctoral Fellow (Human Genetics) at Centre for Cellular and Molecular Biology, Hyderabad, India. (7-4-2003 to 26-5-2007)

Awards and Honors

1. Received Prof. K. Pampapathi Rao memorial Gold Medal for the Best Young Scientist research presentation in a National conference conducted by Indian Society for Comparative Animal Physiology during 26th – 28th February 2003.
2. Received Travel scholarship to Participate and present paper in 4th Indo Australian conference on biotechnology held at QIMR, Brisbane (Qld) Australia during 7th- 9th May 2007.
3. Received 15th place in the analysis of meritorious research publications of Sri Ramachandra University, 2010.
4. Received 3rd place in the analysis of meritorious research publications of Sri Ramachandra University, 2011.

Research Projects

1. Evaluating the interrelationship between miRNA expression and SNPs in miRNA-Target genes in sickle cell disease. CSIR (Sanction order no.27(0371)/20/EMR-II, Dated 17-07-2020) 32.16 Lakhs (01-08-2020 to 30-07-2023).
2. Association of apelin with the vaso-occlusive pain crisis and pain measures in sickle cell disease. ICMR – (Letter no. 56/4/2019-Hae/BMS Dated 08-07-2019) - 25 lakhs (06-12-2021 to 05-12-2024).
3. Identification and Correlation of β -Globin Gene Cluster Haplotypes with Clinical and Hematologic Features of Sickle Cell Anaemia in Chhattisgarh. Chhattisgarh Council of Science & Technology, Raipur (C.G.) (Endt.No. 2740/CCOST/MRP/2015. Dated 24-03-2015) 5 lakhs (1-3-2015 to 30-3-2017).
4. Identification of susceptibility genes associated with non-syndromic cleft lip with or without cleft palate in Indian Population: ICMR (Project Ref. No. 54/15/2007-BMS)- 25 lakhs (26-10-2009 to 25-10-2012).
5. Evaluation of insulin metabolic gene(s) polymorphisms in the pathogenesis of polycystic ovary syndrome (PCOS). DBT (Project Ref. No. BT/PR14090/GBD/27/275/2010)-21 lakhs (20-10-2010 to 20-10-2013).

6. The role of microRNA in metabolic syndrome. India-Taiwan programme of co-operation in science & technology, CII (GITA/DST/TWN/P-30/2011) – 44.1 Lakhs (1-03-2011 to 28-02-2014).

International Collaboration/Consultancy

Best Peer Reviewed Publications (up-to 10):

1. Verma HK, **Bhaskar LVKS**. SARS-CoV-2 infection in people with pre-existing liver disease: Further research is warranted. *World J Gastroenterol* 2021; (**Impact factor: 5.742**).
2. Pavitra E, Dariya B, Srivani G, Kang SM, Alam A, Sudhir PR, Kamal MA, Raju GSR, Han YK, **Bhaskar LVKS**, Nagaraju GP, Huh YS. Engineered nanoparticles for imaging and drug delivery in colorectal cancer. *Semin Cancer Biol.* 2021;69:293-306. (**Impact factor: 15.707**).
3. Sahu T, Mehta A, Ratre YK, Jaiswal A, Vishvakarma NK, **Bhaskar LVKS**, Verma HK. Current understanding of the impact of COVID-19 on gastrointestinal disease: Challenges and openings. *World J Gastroenterol.* 2021 Feb 14;27(6):449-469. doi: 10.3748/wjg.v27.i6.449. PMID: 33642821; PMCID: PMC7896435. (**Impact factor: 5.742**).
4. **Bhaskar LVKS**, Farran B, Saikrishna L, Peela S, Yarla NS, Bramhachari PV, Kamal MA, Saddala MS, Nagaraju GP. Small molecule tyrosine kinase inhibitors and pancreatic cancer-Trials and troubles. *Semin Cancer Biol.* 2019; 56:149-167. (**Impact factor: 15.707**)
5. Merchant N, **Bhaskar LVKS**, Saimila M, Peela S, Aramati BMR, Nagaraju GPC. 5-Lipoxygenase: Its involvement in gastrointestinal malignancies. *Critical Reviews in Oncology / Hematology* , 2018; 127, 50 – 55. (**Impact factor: 6.312**)
6. Lavu V, Venkatesan V, **Bhaskar LVKS**, Priyanka V, Kumarasamy P, Durairaj Paul SF, Rao SR. Polymorphic Regions in Fc Gamma Receptor and Tumor Necrosis Factor- α Genes and Susceptibility to Chronic Periodontitis in a Cohort From South India. *Journal of Periodontol.* 2016;87(8):914-922. (**Impact factor: 6.993**)
7. Gnanasambandan R, Ramprasad E, Soundararajan P, **Bhaskar LVKS**. Renin gene rs1464816 polymorphism contributes to chronic kidney disease progression in ADPKD. *Journal of Biomedical Science*, 2016, 23:1 (**Impact factor: 8.410**)

8. Raha O, Biswanath S, **Bhaskar LVKS**, Veerraju P, Sudhakar G, Subhankar C, Pradip R and Rao VR. HLA class II SNP interactions and the association with type 1 diabetes mellitus in Bengali speaking patients of Eastern India. *Journal of Biomedical Science* 2013, 20:12 doi:10.1186/1423-0127-20-12. **(Impact factor: 8.410)**
9. Shah AM, Tamang R, Moorjani P, Rani DS, Govindaraj P, Kulkarni G, Bhattacharya T, Mustak MS, **Bhaskar LVKS**, Reddy AG, Gadhvi D, Gai PB, Chaubey G, Patterson N, Reich D, Tyler-Smith C, Singh L, Thangaraj K (2011) Indian Siddis: African Descendants with Indian Admixture. *Am J Hum Genet.* 89: 154-161. **(Impact factor: 11.025)**
10. Liao YC, Chou WW, Li YN, Chuang SC, Lin WY, Lakkakula BV, Yu ML, Juo SH. Apelin gene polymorphism influences apelin expression and obesity phenotypes in Chinese women. *Am J Clin Nutr.* 2011 Sep;94(3):921-8. **(Impact factor: 7.045)**

Recent Books/Book Chapters/Monographs etc.

1. Nisha S, Samrat R and **Bhaskar LVKS** (2022). Chapter 3 - Risk factors and pathogenic mechanism associated hepatocellular carcinoma. pp. 33-49. In: Ganji N, Sujatha P, eds. *Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma, Volume 1. Biology and Pathophysiology.* San Diego: Elsevier Inc./Academic Press, ISBN: 9780323988063.
2. Verma HK, Farran B and **Bhaskar LVKS** (2021). Chapter 9 - Immune response, inflammation pathway gene polymorphisms, and the risk of cervical cancer. In: Basha R, Ahmad S, eds. *Overcoming Drug Resistance in Gynecologic Cancers.* Academic Press, pp. 207-223.
3. Verma, HK., Neha M., **Bhaskar LVKS**. Chapter 10: Association Between IL6 Gene Polymorphisms and Gastric Cancer Risk: A Meta-Analysis of Case-Control Studies. In: Ramakrishna V and Nagaraju GP, (eds). *Immunotherapy for Gastrointestinal Malignancies.* Springer Nature publishers, 2021: ISBN: 978-981-15-6486-4.
4. Mohan Krishna Ghanta, Santosh C. Gursale, Narayan P. Burte, and **L.V.K.S. Bhaskar**. "Chapter 13: Pharmacoeconomics and cost-effectiveness of treatments related to breast and cervix cancers". In: Rama Rao M and Nagaraju GP, (eds). *A theranostic and precision medicine approach for female-specific cancers.* San Diego: Elsevier Inc./Academic Press, 2020: ISBN: 9780128220092.

5. Samrat Rakshit and **L.V.K.S. Bhaskar**. "Chapter 16: CYP1B1 rs1056836 polymorphism and endometrial cancer risk: A meta-analysis". In: Rama Rao M and Nagaraju GP, (eds). A theranostic and precision medicine approach for female-specific cancers. San Diego: Elsevier Inc./Academic Press, 2020: ISBN: 9780128220092.
6. Samrat, R., **Bhaskar LVKS**. "Chapter 10: An Intergenic Variant rs4779584 Between SCG5 and GREM1 Contributes to the Increased Risk of Colorectal Cancer: A Meta-Analysis". In: Sujatha, P., and Nagaraju GP. (Eds.). "Diagnostics and Therapeutic Advances in GI Malignancies". Springer Nature publishers.2020. ISBN 978-981-15-5470-4.
7. Ghanta, MK., Santosh, CG., **Bhaskar LVKS**. "Chapter 7: Understanding Colorectal Cancer: The Basics". In: Rama Raju, GSR., **Bhaskar, LVKS**. (Eds.). "Theranostics Approaches to Gastric and Colon Cancer". Springer Nature publishers.2020. ISBN 978-981-15-2017-4.
8. Verma, HK., Geppino F., **Bhaskar LVKS**. "Chapter 8: Molecular Signaling Pathways Involved in Gastric Cancer Chemoresistance". In: Rama Raju, GSR., **Bhaskar, LVKS**. (Eds.). "Theranostics Approaches to Gastric and Colon Cancer". Springer Nature publishers.2020. ISBN 978-981-15-2017-4.
9. **Bhaskar, LVKS**., Akriti, G. and Pattnaik S. "Chapter 9: Meta-Analysis Reveals no Significant Association of EPHX1 Tyr113His and His139Arg Polymorphisms with the Colorectal Cancer Risk". In: Rama Raju, GSR., **Bhaskar, LVKS**. (Eds.). "Theranostics Approaches to Gastric and Colon Cancer". Springer Nature publishers.2020. ISBN 978-981-15-2017-4.
10. **Bhaskar, LVKS**., Shubhangi S, and Pattnaik S. "Chapter 10: Meta-Analysis of Genetic Variants in Alcohol Metabolizing Enzymes and their Association with Colorectal Cancer Risk". In: Rama Raju, GSR., **Bhaskar, LVKS**. (Eds.). "Theranostics Approaches to Gastric and Colon Cancer". Springer Nature publishers.2020. ISBN 978-981-15-2017-4.
11. Saikrishna L, Prameswari K, Saimila M and **Bhakar LVKS**. Chapter 9. " Perspectives and Molecular Understanding of Pancreatic Cancer Stem Cells" In: Nagaraju GP and BM Reddy Aramati, (eds). Exploring Pancreatic Metabolism and Malignancy. Springer Nature publishers.2019. ISBN: 978-981-32-9392-2.

12. Henu Kumar Verma and **Bhaskar LVKS**. Chapter 12. "Insulin Resistance Is a Common Core Tethered to Diabetes and Pancreatic Cancer Risk" In: Nagaraju GP and BM Reddy Aramati, (eds). Exploring Pancreatic Metabolism and Malignancy. Springer Nature publishers.2019. ISBN: 978-981-32-9392-2.
13. **Bhaskar LVKS** and Saikrishna L. "Chapter 13: Meta-analysis of MTHFR polymorphisms and pancreatic cancer susceptibility" In: Nagaraju GP and Ahmad S, (eds). Theranostic Approach for Pancreatic Cancer. San Diego: Elsevier Inc./Academic Press, 2019: ISBN: 9780128176610.
14. **Bhaskar LVKS** and Saikrishna L. "Chapter 11: Molecular Markers For Treatment Response And Toxicity Of Gemcitabine" In: Nagaraju GP (eds). "Breaking Tolerance to Pancreatic Cancer Unresponsiveness to Chemotherapy, Volume 5". San Diego: Elsevier Inc./Academic Press, 2019: ISBN: 9780128176610.
15. **Bhaskar LVKS** and Saikrishna L. "Chapter 14: Drug Resistance Against Tyrosine Kinase Inhibitor in Gastrointestinal Malignancies" In: Nagaraju GP (eds). "Role of tyrosine kinases in Gastrointestinal malignancies". Springer Nature publishers.2018. ISBN:978-981-13-1485-8.

Research Supervision

Ph. D students enrolled: 05

Ph. D students guided: 05

Master's Dissertations guided: 19

MD. Dissertations guided: 02 (Co-guide)

Administrative Responsibilities

Dean, School of Studies in Life Sciences: Guru Ghasidas Vishwavidyalaya, Bilaspur (22 November 2019 to Till date).

Head, Department of Zoology: Guru Ghasidas Vishwavidyalaya, Bilaspur (30th January 2020 to Till date).

NAAC Steering Committee Coordinator: Guru Ghasidas Vishwavidyalaya, Bilaspur (12 February 2021 to Till date).

Additional Information

Conducted refresher course: winter school on novel insights in life sciences research (inter disciplinary) as Coordinator at UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur, during 15-02-2021 to 27-02-2021.