

Curriculum Vitae

MANOHAR SURESH KUGAJI

Personal

- Address : H. No. 457, 'JANAI', Nazar camp, Yellur road, Vadgaon, Belagavi-59005, Karnataka, India
- Telephone : +91 -9743395328
- Email : manoharkugaji@gmail.com
- Date of Birth : 27/09/1984
- Nationality : Indian
- Gender : Male
- Languages : English, Hindi, Kannada, Marathi.

Academic Qualifications

- Ph.D. in Biotechnology- March 2022.
Visvesvaraya Technological University (VTU), Belagavi, Karnataka, India.
Title of PhD Work: "Evaluation of the prevalence of gingipain and fimbriae genotypes of *Porphyromonas gingivalis* in patients with Chronic Periodontitis and Healthy individuals".
- Master of Science (Biotechnology): 2006-2008 – Karnataka University, Dharwad (KUD).
First Class with Distinction
- B.Sc: 2003-2005 : G.S. Sc College, Belagavi (Karnataka University, Dharwad)
First Class with Distinction

Work Experience

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|---|---|
| Assistant Director (02 months) | 1st Sept 2024– Till to date. |
| Central Research Laboratory (CRL), Maratha Mandal's Nathajirao G. Halgekar Institute of Dental Sciences and Research Centre, Belgaum, Karnataka, India. | |
| Research and Technical officer (09 months) | 1st Dec 2023 – 31st Aug 2024. |
| Centre for Advanced Medical Research (CAMR), Shri B. M. Patil Medical College, BLDE (Deemed to be University), Vijayapura, Karnataka, India. | |
| Research Officer (13.5 years) | 14th June 2010 – 29th November 2023. |
| Central Research Laboratory (CRL), Maratha Mandal's Nathajirao G. Halgekar Institute of Dental Sciences and Research Centre, Belgaum, Karnataka, India. | |
| Research Consultant (Part time, 09 months) | Dec 2022-Aug 2023 |
| Zum Heilen Diagnostic and Therapeutics Pvt. Ltd. Thrissur, Kerala. | |

- Research Papers: 45 (Pubmed: 21, Scopus: 25, Web of science: 19)
- Total citations: 431 h-index: 12 i10-index: 14
- Number of Peer reviews completed: 12
- Patents: 02
- Book Chapter: 01 (Under review)
- Paper presentations (Oral/poster): 05 Workshops/Conferences: 19
- ORCID ID: 0000-0001-6315-4531 Scopus ID: 56106688200
- Web of Science Researcher ID: GLU-2931-2022

Patents

- 1) Venugopala KN, Deb PK, Kamat V, Santosh R, Poojary B, **Kugaji MS**, Kumbar VM, Morsy MA, Aldhubiab B, Attimarad M, Nair AB, inventors. 5-(substitutedphenyl)-7-imino-7, 8-dihydropyrimido [4, 5-d] pyrimidine-2, 4 (1H, 3H)-dione analogues as anti-inflammatory agents. United States patent US 11,884,677. 2024 Jan 30.
- 2) Venugopala KN, Deb PK, Kamat V, Santosh R, Poojary B, **Kugaji MS**, Kumbar VM, Morsy MA, Aldhubiab B, Attimarad M, Nair AB, inventors. 5-(3-substituted phenyl)-pyrimido [4, 5-d] pyrimidine-2, 4, 7 (1H, 3H, 8H)-trione derivatives as anticancer agents. United States patent US 11,932,649. 2024 Mar 19.

Research Publications

- 1) Shaikh HF, Oswal PU, **Kugaji MS***, Katti SS, Bhat KG, Kandaswamy E, Joshi VM. Association of F. alocis and D. pneumosintes with Periodontitis Disease Severity and Red Complex Bacteria. Dentistry Journal. 2024 Apr 12;12(4):105. (Impact factor 2.6)
- 2) **Manohar Kugaji***; Suman Kumar Ray. Biosurfactants: A review of different strategies for economical production, their applications and recent advancements. Journal of Biotechnology. Under review.
- 3) Sangoli MN, **Kugaji MS***, Ray SK, Bhat KG. Evaluation of Loop-Mediated Isothermal Amplification Method for Efficient Detection of the Periodontopathic Bacteria *Porphyromonas gingivalis*. Journal of Indian Society of Periodontology. 2024;28:122-128. (SCOPUS/PubMed indexed)
- 4) Tharakan M, **Kugaji M***, Bhat K, Varkey P, Joshi M, Nanda B. The Antifungal Potential of Cardamom-based DenteezTM Mouthwash Against Opportunistic Fungal Infections in the Oral Cavity. Journal of Advanced Oral Research. 2023 Nov;14(2):169-76. (Impact factor 0.7)
- 5) Praveen T, Kotrashetti VS, Nayak RS, Naik SS, Bhat K, **Kugaji MS**. Polymerase chain reaction-based identification of various serotypes of Streptococcus mutans in adults with and without dental caries. Journal of Conservative Dentistry and Endodontics. 2024 Mar 1;27(3):315-20. (Pubmed indexed)
- 6) Kottrashetti VS, Bhat KG, **Kugaji MS**, Naik SS, Tanakanti P. Simultaneous detection and evaluation of Prevotella intermedia, Prevotella nigrescens, Prevotella loescheii, and Prevotella melaninogenica in subgingival plaque samples of chronic periodontitis and healthy individuals through multiplex polymerase chain reaction. Journal of Indian

Society of Periodontology. 2023 May;27(3):283. (Pubmed indexed)

- 7) Tendulkar SS, Hattiholi A, Kumbar V, **Kugaji M**, Bhat K, Dodamani S. Analyzing the Expression of Ovarian Cancer Genes in PA-1 Cells Lines After the Treatment of Thymoquinone. Indian Journal of Gynecologic Oncology. 2023 Mar;21(1):1-8. (Impact factor 0.25)
- 8) Shaikh HF, Oswal PU, **Kugaji MS**, Katti SS, Bhat KG, Joshi VM. Co-Occurrence of *Filifactor alocis* with Red Complex Bacteria in Type 2 Diabetes Mellitus Subjects with and without Chronic Periodontitis: A Pilot Study. International Journal of Translational Medicine. 2023 Feb 9;3(1):97-107.
- 9) Kanshide A, Peram MR, Chandrasekhar N, Jamadar A, Kumbar V, **Kugaji M**. Formulation, Optimization, and Antioxidant Evaluation of Tetrahydrocurcumin-Loaded Ultradeformable Nanovesicular Cream. Journal of Pharmaceutical Innovation. 2022 Dec 17:1-9. (Impact factor 2.11)
- 10) Dr. Priya N S, Dr. Ramakant Nayak, Dr. Kishore Bhat, **Dr. Manohar Kugaji**, Ms. Meenaz Sangolli, Dr. Prashanth R. Clinico-Pathological Significance and Expression Portrait of miR-26a In Oral Squamous Cell Carcinoma. IJMSCR 2022; 5(6): 447-454. (Pubmed indexed)
- 11) **Manohar Kugaji**, Kishore Bhat, Uday Mudapur, Vinayak Joshi, Malleswara Rao, Vijay Kumbar. Gingipain genotyping as a potential predictor for the assessment of periodontal health and disease condition. Hygiene 2022;2 (4), 178-186.
- 12) Vijay M Kumbar, Uday Muddapur, Abdullatif Bin Muhsinah, Saad Ali Alshehri, Mohammed Merae Alshahrani, Ibrahim Abdullah Almazni, **Manohar S Kugaji**, Kishore Bhat, Malleswara Rao Peram, Mater H Mahnashi, Sameer J Nadaf, Sheetalnath B Rooge, Aejaz Abdullatif Khan, Ibrahim Ahmed Shaikh. Curcumin-Encapsulated Nanomicelles Improve Cellular Uptake and Cytotoxicity in Cisplatin-Resistant Human Oral Cancer Cells. Journal of Functional Biomaterials 2022;13 (4), 158. (Impact factor 4.901)
- 13) Aishwarya Hattiholi, Shivani Tendulkar, Vijay Kumbar, Malleswara rao Peram, **Manohar Kugaji**, Uday Muddapur, Kishore G Bhat. Evaluation of Anti-cancer Activities of Cranberries juice Concentrate in Osteosarcoma Cell Lines (MG-63). Indian Journal of Pharmaceutical Education and Research 2022;56 (4), 1141-1149. (Impact factor: 0.843)
- 14) Ingalagi P, Bhat KG, Kulkarni RD, Kotrashetti VS, Kumbar V, **Kugaji M**. Detection and comparison of prevalence of *Porphyromonas gingivalis* through culture and Real Time-polymerase chain reaction in subgingival plaque samples of chronic periodontitis and healthy individuals. Journal of Oral and Maxillofacial Pathology: JOMFP. 2022 Apr;26(2):288. (Impact factor: 1.211)
- 15) Idate U, Bhat K, Kulkarni RD, Kotrashetti V, **Kugaji M**, Kumbar V. Comparison of culture and polymerase chain reaction–restriction fragment length polymorphism for identification of various *Capnocytophaga* species from subgingival plaque samples of healthy and periodontally diseased individuals. Journal of Oral and Maxillofacial Pathology: JOMFP. 2022 Apr;26(2):287. (Impact factor: 1.211)
- 16) Kumbar VM, Muddapur UM, Bhat KG, Shwetha HR, **Kugaji MS**, Peram MR, Dindawar S. Cancer stem cell traits in tumor spheres derived from primary laryngeal carcinoma cell lines. Contemporary Clinical Dentistry. 2021 Jul 1;12(3):247. (Impact factor: 1.495)

- 17) NS Priya, R Nayak, K Bhat, M Kugaji, K Vijayalakshmi, K Rao. Site specificity and expression profile of miR-21 in oral squamous cell carcinoma. *Journal of Oral and Maxillofacial Pathology*. 2021, 25 (1), 154. (Impact factor: 1.211)
- 18) Tejasvi MA, Anulekha CK, Reddy ER, Kulkarni P, Bhayya H, **Kugaji MS**. Individuals Age Determination from Human Dental Pulp Through DNA Analysis by PCR. *Global Medical Genetics*. 2021 Feb 15. (ESCI, Pubmed indexed)
- 19) Peram MR, Patil SR, Kumbar VM, **Kugaji MS**, Bhat KG, Diwan PV, Jalalpure S. An RP-HPLC Method for Quantitative Analysis of Linagliptin Entrapped in Nanotransfersomes and its Application to Skin Permeation Studies. *Current Pharmaceutical Analysis*. 2021 Feb 1;17(2):231-40. (Impact factor: 0.89)
- 20) Pattan SS, Bhat KG, Kumbar VM, **Kugaji MS**, Pattar G. Defining the normal range for screening panel of neutrophil function tests in healthy adult Indian participants. *Indian Journal of Health Sciences and Biomedical Research (KLEU)*. 2021 Jan 1;14(1):141. (Impact factor: 0.3)
- 21) Kumbar VM, Peram MR, **Kugaji MS**, Shah T, Patil SP, Muddapur UM, Bhat KG. Effect of curcumin on growth, biofilm formation and virulence factor gene expression of *Porphyromonas gingivalis*. *Odontology*. 2021 Jan;109(1):18-28. (Impact factor: 2.742)
- 22) Kumbar VM, Muddapur UM, Bhat KG, Shwetha HR, **Kugaji MS**, Peram MR. Indirect Immunofluorescence and Tumorspheres Enrichment Technique for Identifying Cancer Stem Cell Markers in Cancer Cell Lines From Primary Oral Cancer Tissues: An In Vitro Study. *Journal of Advanced Oral Research*. 2020 Nov;11(2):224-30. (ESCI indexed)
- 23) Ingalagi P, Kotrashetti V, Bhat K, **Kugaji M**. Comparison of cluster analysis of *Porphyromonas gingivalis* by arbitrarily primed-polymerase chain reaction between healthy and chronic periodontitis subjects. *Journal of Oral and Maxillofacial Pathology: JOMFP*. 2020 May; 24(2):251. (Impact factor: 1.211)
- 24) Idate U, Bhat K, Kotrashetti V, **Kugaji M**, Kumbar V. Molecular identification of *Capnocytophaga* species from the oral cavity of patients with chronic periodontitis and healthy individuals. *Journal of Oral and Maxillofacial Pathology: JOMFP*. 2020 May;24(2):397. (Impact factor: 1.211)
- 25) **Kugaji M**, Muddapur U, Bhat K, Joshi V, Manubolu M, Pathakoti K, Peram MR, Kumbar V. Variation in the Occurrence of fimA Genotypes of *Porphyromonas gingivalis* in Periodontal Health and Disease. *International journal of environmental research and public health*, Vol 17, Jan 2020, p 1826. (Impact factor: 4.614)
- 26) Matondkar SP, Yavagal C, **Kugaji M**, Bhat KG. Quantitative assessment of *Scardovia wiggsiae* from dental plaque samples of children suffering from severe early childhood caries and caries free children. *Anaerobe*. 2020;62:102110. (Impact factor: 3.331)
- 27) **Kugaji MS**, Muddapur UM, Bhat KG, Joshi VM, Kumbar VM, Peram MR. Quantitative Evaluation of *Porphyromonas gingivalis* in Indian Subjects With Chronic Periodontitis by Real-Time Polymerase Chain Reaction. *Journal of Advanced Oral Research*. 2019 Sep 13:2320206819863952. (ESCI indexed)
- 28) **Kugaji, Manohar S**; Kumbar, Vijay M; Peram, Malleswara Rao; Patil, Sanjivini; Bhat, Kishore G; Diwan, Prakash V. Effect of Resveratrol on biofilm formation and virulence factor gene expression of *Porphyromonas gingivalis* in periodontal disease.; *Apmis* 2019;127 (4), 187-195. (Impact factor: 3.428)
- 29) Babji, Deepa; Nayak, Ramakant; Bhat, Kishore; Kotrashetti, Vijayalakshmi; Babaji, Harsha; **Kugaji, Manohar S**. Detection and comparison of microsatellite marker D9S1747 with clinical stages and grades of oral squamous cell carcinoma. *Journal of Oral and Maxillofacial Pathology*. 2019, 23; 1, 161. (Impact factor: 1.211)

- 30) Raviraj, GA; Bhat, Kishore G; **Kugaji, Manohar S**; Kumbar, Vijay M; Hooli, Amruta. Study of microbial diversity in saliva and plaque samples from caries-free and caries-affected children using denaturing gradient gel electrophoresis. Journal of Indian Society of Pedodontics and Preventive Dentistry. 2018, 36; 4, 396. (Impact factor: 1.973)
- 31) Vijayalakshmi S Kotrashetti, Kishore Bhat, Smita Pattanshetty, **Manohar Kugaji**, Amruta Hooli. Determination of prevalence of genus Prevotella from the subgingival plaque samples of chronic periodontitis and in healthy individual through polymerase chain reaction.; Journal of Advanced Clinical & Research Insights. 2018, 5, 119-123. (Impact factor: 0.1)
- 32) Pooja Desai, Amruta Hooli, **Manohar Kugaji**, Vijayalakshmi kotrashetti, Kishore Bhat, Vikram Pai. Detection of Aggregatibacter actinomycetemcomitans and red complex bacteria from supragingival and subgingival plaque samples of healthy individuals before orthodontic treatment - A clinical and microbiological correlation. Journal of Advanced Clinical and Research Insights. 2018, 5, 104-110. (Impact factor: 0.1)
- 33) Nayak, Aarati; Bhat, Kishore; Shivanaikar, Sachin; Pushpa, P; **Kugaji, Manohar**; Kumbar, Vijay. Detection of red complex organisms in chronic periodontitis by multiplex polymerase chain reaction.; Journal of Advanced Clinical & Research Insights. 2018, 5, 139-144. (Impact factor: 0.1)
- 34) Bhat, Kishore G; Chhatre, Aaradhana; Kumbar, Vijay M; **Kugaji, Manohar S**; Patil, Sanjeevani. Application of fluorescent In situ hybridization for rapid detection of Aggregatibacter actinomycetemcomitans in patients with chronic periodontitis.; Journal of the International Clinical Dental Research Organization, 2018, 10; 1, 32. (Impact factor: 0.3)
- 35) Satish S Bhat, Naveen Shivalingegowda, Vidyanand K Revankar, NK Lokanath, **Manohar S Kugaji**, Vijay Kumbar, Kishore Bhat. Synthesis, structural characterization and biological properties of phosphorescent iridium (III) complexes. Journal of inorganic biochemistry. 2017, 177, 127-137. (Impact factor: 4.155)
- 36) Joshi, Vinayak M; Bhat, Kishore G; **Kugaji, Manohar S**; Shirahatti, Ravi. Characterization and serotype distribution of Aggregatibacter actinomycetemcomitans: Relationship of serotypes to herpesvirus and periodontal status in Indian subjects. Microbial pathogenesis. 2017, 110, 189-195. (Impact factor: 3.738)
- 37) **Kugaji, Manohar S**; Bhat, Kishore G; Joshi, Vinayak M; Pujar, Madhu; Mavani, Pratik T. Simplified method of detection of Dialister invisus and Olsenella uli in oral cavity samples by polymerase chain reaction. Journal of advanced oral research. 2017, 8, 47-52.
- 38) Dr. Kishore G. Bhat , Dr Aradhana Chhatre , Mr. Vijay M. Kumbar , **Mr. Manohar S. Kugaji**. Detection and Quantitation of red complex bacteria in subgingival plaque by using Fluorescent In Situ Hybridization (Fish). International Journal of Research - Granthaalayah. 2017, 5; 11, 279-289.
- 39) Joshi, Vinayak M; Bhat, Kishore G; **Kugaji, Manohar S**; Ingalgi, Preeti S. Prevalence of Porphyromonas gingivalis and its relationship with herpesvirus in Indian subjects with chronic periodontitis: A cross-sectional study. Journal of the International Clinical Dental Research Organization. 2016, 8; 2, 106. (Impact factor: 0.3)
- 40) Joshi, Vinayak Mahableshwar; Bhat, Kishore Gajanan; **Kugaji, Manohar Suresh**; Ingalgi, Preeti Shivaji. Occurrence of Aggregatibacter actinomycetemcomitans in Indian chronic periodontitis patients and periodontally healthy adults. Journal of Indian Society of Periodontology. 2016, 20; 2, 141. (Impact factor: 1.255)

- 41) Joshi, VM; Bhat, KG; Katti, SS; **Kugaji, MS**; Ingaldi, PS. Prevalence of Herpesvirus and Correlation with Clinical Parameters in Indian Subjects with Chronic Periodontitis. The journal of contemporary dental practice. 2015, 16;11, 915-920. (Impact factor: 0.902)
- 42) Varsha Chaudhary, Bhat Kishore, Sunil Rao, Preeti Ingaldi & **Manohar Kugaji**. Comparison of Culture and PCR for Detection of *Porphyromonas gingivalis* in patients with Chronic Periodontitis and Healthy Subjects. Journal of pharmaceutical and biomedical sciences. 2013, 34; 34, 1670-1675.
- 43) Varsha Chaudhary, Bhat Kishore, Sunil Rao, **Manohar Kugaji** and Preeti Ingaldi. Detection of *Treponema denticola* by PCR in Patients with different periodontal status. International journal of current Microbiology and Applied Sciences. 2013, 2; 10, 172-178. (Impact factor: 0.654).
- 44) Nagesh C, Attimarad SL, **Kugaji MS**, Shreenal Patel, Venkatesh JS. Design and In-Vitro Evaluation of Gastroretentive drug delivery system of Carvedilol. Universal Journal of Pharmacy. 2013, 2; 2, 118-124.
- 45) Attimarad, SL; Gaviraj, EN; Nagesh, C; **Kugaji, MS**; Sutar, RS. Screening, isolation and purification of antibiotic (s) from marine actinomycetes. International Journal of Research in Ayurveda and Pharmacy. 2012
- 46) Venkatakrishna, R; Kishore, B; **Manohar, K**; Shantaram, PVM. Detection of Methicillin Resistance in *Staphylococcus aureus*: Comparison of Disc diffusion and MIC with *mecA* gene detection by PCR. IJPBS, 2011, 1, 518-21. (Impact factor: 0.888).

Awards

1. **Best Poster Award** for “Quantitative evaluation of *Porphyromonas gingivalis* by Real time PCR and prevalence of fimbriae genotypes in patients with Chronic periodontitis-A clinic-microbiological study” at National conference on ‘Recent Trends in Biochemical Engineering and Biotechnology (RTBEB-2019)’ on 19th September 2019 held at Department of Biotechnology, BVBCET, Hubballi.
2. **Best Poster Award** for “Curcumin Nanomicelles: A Novel Therapeutic Approach for Drug-Resistant Oral Cancer Cell Lines” at National Conference on “Recent Trend in Biotechnology-2018” (RTBT-2018) organized by Dept. Of Chemistry And Biotechnology, KCD College, Dharwad, Karnataka

Oral or Poster Presentations

1. Oral Presentation “Resveratrol inhibits biofilm formation and virulence factor gene expression of *Porphyromonas gingivalis* in patients with chronic periodontitis” at National conference on 'Recent trend in Biotechnology-2018' on 23rd and 24th Feb 2018 at Karnatak Science College, Dharwad.
2. Paper presentation titled “Curcumin promotes mitochondrial-mediated apoptosis in human Laryngeal cancer cell line (HEP-2) by miRNA-203 mediated down regulation of surviving” in International conference on “Global Convergence in technology,

Entrepreneurship, computing and value engineering: Principles and Practices” organized by Sapthagiri College of Engineering held on 16th and 17th July 2021.

3. Poster presentation titled “Harnessing the Power of Curcumin: Investigating its Effect on Biofilm Formation and Virulence Factor Gene Expression of Oral Pathogens” at National Conference “Cracking of Life-Molecular Biology in Action” held by BSRC, KLE Belgaum from 24th to 26th April 2024.

Major Workshops/Conferences

1. Participated and presented poster at National Conference “Cracking of Life-Molecular Biology in Action” held by BSRC, KLE Belgaum from 24th to 26th April 2024.
2. Organized workshop on ‘Good Laboratory Practices’ at BLDE (DU), Vijayapura, Karnataka, India on April 19, 2024.
3. Attended three days webinar on gene expression analysis by Bio-rad laboratories and being conferred ‘Master of Science in RT-qPCR’ on July 14, 2022.
4. Attended webinar on “Sequence submission-GenBank” conducted by Biosrishti, Online Life Science solutions on 9th April 2021.
5. Participated in BIRAC Sensitization Workshop on "Grant Writing, Intellectual Property and Technology Management in Life Sciences", 14th & 15th Feb, 2020 at BITS, Pilani -K K Birla Goa Campus, Goa.
6. **Organizing secretary** for one day seminar titled “Empowering the Hard and Soft skills: A key to Success” on Saturday, 8th February 2020 at Maratha Mandal’s NGH Institute of Dental Sciences & Research Centre, Belgaum
7. Participated in the pre-conference workshop on ‘Scientific Writing’ organized by Department of Biotechnology BVBCET, Hubballi on 19th September 2019.
8. Participated in National conference on 'Recent trend in Biotechnology-2018' on 23rd and 24th Feb 2018 at Karnatak Science College, Dharwad.
9. Participated in the ‘Hands-on Workshop on Basic Technique of Cell Culture’ from 21st to 23rd September 2017 held at Maratha Mandal’s NGH Institute of Dental Sciences & Research Centre, Belgaum
10. Participated as a **Resource person** in the ‘Hands-on Workshop on Cultivation and Identification of Oral Anaerobes’ on 21st April 2017 and 22nd April 2017 held at Maratha Mandal’s NGH Institute of Dental Sciences & Research Centre, Belgaum.
11. Participated in the Faculty Development Program on “Design & Analysis of Experiments” from 5th to 7th January 2017 held at Department of Biotechnology BVBCET, Hubballi.
12. Participated as a **Resource person** in the hands-on workshop on ‘ELISA’ on 20th May 2016 at Maratha Mandal’s NGH Institute of Dental Sciences & Research Centre, Belgaum.
13. Participated in the hands on workshop on ‘PCR and Sequence data Analysis’ held at ICMR-RMRC, Belgaum from 31st July to 1 August 2014.
14. Participated as a **Resource person** at 13th ISP National Pre-Convention Programme for the live demonstration (hands on) “Basic and Recent Advances in Diagnostic Technology in Oral Microbiology” held at A.J. Institute of Dental Sciences, Mangalore on 7th of March 2014.
15. Participated in the 5th International Nanotechnology Conference held at Bangalore from 5th to 7th Dec 2012.

16. Participated as a **Resource person** for the 'Workshop on PCR techniques' held in Maratha Mandal's NGH Institute of Dental Sciences & Research Centre, Belgaum on 21-24th Sept 2011.