

Dr. Vidya Rani had completed her BDS from A.B. Shetty Memorial Institute of Dental Sciences in the year 2001 after which she had given the Prestigious All India Entrance exam to get selected to do her Specialization in Oral Pathology from Govt. Dental College, Trivandrum, Kerala that she completed in the year 2005. Currently Dr. Vidhya is the Principal Investigator of COCPAR and also the IRB member for Sree Balaji Dental College. Dr. Vidhya has vast experience in the field of Oral Cancer as well as stem cells which is evident from her previous work experience as follows:

EXPERIENCE:

- **Research Fellowship** (Guide- Dr (Prof). Michael McCullough)

Department of Oral Medicine and Oral Pathology,
Melbourne Dental School,
The University of Melbourne, Melbourne, Victoria Australia.
April 2009-Oct 2009

- **Reader**

Dept of Oral Pathology, Mamata Dental College, Khammam, Andhra Pradesh.
From: Dec 2009- April 2013.

- **Senior Research Officer**

Dept of Gastroenterology (guide-Dr. B S Ramakrishna)
Christian Medical College (CMC) Vellore, Tamil Nadu, India.
From Jan 2007- Aug-2008 (On sabbatical from Dental college)

- **Assistant Professor**

Dr. Vidhya Rani, M.D.S
PRINCIPAL INVESTIGATOR

Department of Oral Pathology and Microbiology
Kannur Dental College, Kannur, Kerala, India.
From: Dec 2005-Dec 2008.

RESEARCH EXPERIENCE:

1. Research work is being done in OSCC cell lines on expressions different diagnostic and prognostic markers, efficacy of newer anticancer drugs in collaboration with Cancer Institute (WIA) Adyar, Chennai, and IIT, Chennai.
2. Elaborate work is being done on diagnostic and prognostic markers in OSCC, OPML using, Raman spectroscopy, Gene sequencing, PCR, RTPCR, ELISA Western blot and IHC in collaboration with Cancer Institute (WIA) Adyar, Chennai, and IIT, Chennai.

3. Cancer stem cell culture from surgical sample, characterization for oral cancer stem cells and basic molecular biological techniques at CMC Vellore under the guidance of Prof. B. S. Ramakrishna and Prof. John C. Muthusami.
4. Clinical trial on Pentoxifylline as a treatment modality for Oral Submucous Fibrosis under the guidance of Dr. R. Rajendran at Government Dental College, Trivandrum.
5. Molecular techniques in cancer research under the guidance of Dr. Radhakrishna Pillai at Regional Cancer Centre (RCC), Trivandrum, Kerala, India.

INTERNATIONAL:

1. Identification of a biomarker compendium for gingivo buccal cancers by 2D gel electrophoresis and Mass Spectrometry, along with validations- Indian Study submitted in Proteomics.
2. P53 as a diagnostic and prognostic marker in Oral cancer and Precancer. Submitted Scientific Reports.
3. Oral cancer and precancer: Role of SNP in answering unanswerable questions, submitted to Biomedicines.
4. R Mathangi, Vidyarani Shyamsundar, A Meenakshi, N Aravindha Babu, Yaongamphi Vashum, S Shila. Influence of type 2 diabetes on immunohistochemical detection of TRAF6, cFos and NFATC1 in the gingiva in cases of chronic periodontitis. *Biotech Histochem* 2023 Nov;98(7):492-500. doi: 10.1080/10520295.2023.2236543. Epub 2023 Jul 24.
5. Venugopal DC, Caleb CL, Kirupakaran NP, Shyamsundar V, Ravindran S, Yasasve M, Krishnamurthy A, Harikrishnan T, Sankarapandian S, Ramshankar V. Clinicopathological Significance of Cancer Stem Cell Markers (OCT-3/4 and SOX-2) in Oral Submucous Fibrosis and Oral Squamous Cell Carcinoma. *Biomedicines*. 2023 Mar 28;11(4):1040. doi: 10.3390/biomedicines11041040. PMID: 37189658; PMCID: PMC10136201. Impact Factor-4.9.
6. Abirami Moorthy, Divyambika Catakapatri Venugopal, Vidyarani Shyamsundar, Yasasve Madhavan, Soundharya Ravindran, Mehanathan Kuppuloganathan, Arvind Krishnamurthy, Sathasivasubramanian Sankarapandian, Vani Ganapathy, Vijayalakshmi Ramshankar. Identification of EGFR as a Biomarker in Saliva and Buccal Cells from Oral Submucous Fibrosis Patients-A Baseline Study. *Diagnostics* 2022, 12(8), 1935. Impact Factor-3.99.
7. Ananthi Sivagnanam, Vidyarani Shyamsundar, Pallavi Kesavan, Arvind Krishnamurthy, Soundara Viveka Thangaraj, CV Divyambika Srinivas, Hemashree Kasirajan, Pratibha Ramani, Vijayalakshmi Ramshankar. 2D-DIGE-Based Proteomic Profiling with Validations Identifies Vimentin as a Secretory Biomarker Useful for Early Detection and Poor Prognosis in Oral Cancers. *Journal of Oncology* Volume 2022, Article ID 4215097, <https://doi.org/10.1155/2022/4215097>. Impact Factor-4.375.
8. Ananthi Sivagnanam, Vidyarani Shyamsundar, Pallavi Kesavan, Arvind Krishnamurthy, Soundara Viveka Thangaraj, CV Divyambika Srinivas, Hemashree Kasirajan, Pratibha Ramani, Vijayalakshmi Ramshankar. 2D-DIGE-Based Proteomic Profiling with Validations Identifies Vimentin as a Secretory Biomarker Useful for Early Detection and Poor Prognosis in Oral Cancers. *Journal of Oncology* Volume

- 2022, Article ID 4215097, <https://doi.org/10.1155/2022/4215097>. Impact Factor-4.375.
9. Ananthi Sivagnanam, Vidyarani Shyamsundar, Pallavi Kesavan, Arvind Krishnamurthy, Soundara Viveka Thangaraj, CV Divyambika Srinivas, Hemashree Kasirajan, Pratibha Ramani, Vijayalakshmi Ramshankar. 2D-DIGE-Based Proteomic Profiling with Validations Identifies Vimentin as a Secretory Biomarker Useful for Early Detection and Poor Prognosis in Oral Cancers. *Journal of Oncology* Volume 2022, Article ID 4215097, <https://doi.org/10.1155/2022/4215097>. Impact Factor-4.375.
 10. Vidyarani Shyamsundar, Soundara Viveka Thangaraj, Arvind Krishnamurthy, Sanjana Vimal, Pallavi Kesavan, Aravinda Babu, Masthan KMK, Vijayalakshmi Ramshankar. Exome Sequencing with Validations and Expression of p16/CDKN2A Shows no Association with HPV in Oral Cancers. *Asian Pac J Cancer Prev*;23(1):191-200. Impact Factor-2.5.
 11. Divyambika Catakapatri Venugopal, Soundharya Ravindran, Vidyarani Shyamsundar, Sathasivasubramanian Sankarapandian, Arvind Krishnamurthy, Ananthi Sivagnanam, Yasasve Madhavan, Vijayalakshmi Ramshankar. Integrated Proteomics Based on 2D Gel Electrophoresis and Mass Spectrometry with Validations: Identification of a Biomarker Compendium for Oral Submucous Fibrosis—An Indian Study. *J Pers Med*. 2022 Feb 3;12(2):208. doi: 10.3390/jpm12020208. Impact Factor-4.9.
 12. Narayanan Subhash, Suresh Anand, Ranimol Prasanna, Sandeep P. Managoli, Rinoy Suvarnadas, Vidyarani Shyamsundar, Karthika Nagarajan, Sourav K. Mishra, Migi Johnson, Mahesh D. Rao, Sanjay C. Jogigowda, Vishal Rao, and Kodaganur S. Gopinathan. Bimodal multispectral imaging system with cloud-based machine learning algorithm for real-time screening and detection of oral potentially malignant lesions and biopsy guidance. Accepted in *Journal of Biomedical Optics*. Impact Factor 3.2
 13. Deregulation of extracellular matrix modelling with molecular prognostic markers revealed by transcriptome sequencing and validations in Oral Tongue squamous cell carcinoma. Soundara Viveka Thangaraj, Vidyarani Shyamsundar, Arvind Krishnamurthy, Vijayalakshmi Ramshankar. *Scientific Reports*, 11:250, 2021. Impact factor 4.4
 14. A feedback loop between miRNA-155, Programmed cell death 4 and Activation Protein-1 modulates the expression of miR-155 and tumorigenesis in tongue cancer. Shabir Zargar, Vivek Tomar, Vidyarani Shyamsundar, Ramshankar Vijayalakshmi, Kumaravel Somasundaram, Devarajan Karunakaran. *Molecular and Cellular Biology*, 39(6); 2019. DOI: 10.1128/MCB.00410-18. Impact Factor- 3.8 Points- 15
 15. Chakraborty D, Viveka TS, Arvind K, Shyamsundar V, Kanchan M, Alex SA, Chandrasekaran N, Vijayalakshmi R, Mukherjee A. A facile gold nanoparticle-based ELISA system for detection of osteopontin in saliva: Towards oral cancer diagnostics. *Clin Chim Acta*. 2018 Feb;477:166-172. doi: 10.1016/j.cca.2017.09.009. Impact factor-2.8

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Molecular Portrait of Oral Tongue Squamous Cell Carcinoma Shown by Integrative Meta-Analysis of Expression Profiles with Validations.
PLoS ONE 2016, 11(6): e0156582.
doi:10.1371/journal.pone.0156582. Impact Factor-3.8
17. Thangaraj SV, Shyamsundar V, Krishnamurthy A, Ramani P, Ganesan K, Muthuswami M, Ramshankar V.
Molecular Portrait of Oral Tongue Squamous Cell Carcinoma Shown by Integrative Meta-Analysis of Expression Profiles with Validations.
PLoS ONE 2016, 11(6): e0156582.
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18. Thangaraj SV, Shyamsundar V, Krishnamurthy A, Ramani P, Ganesan K, Muthuswami M, Ramshankar V.
Molecular Portrait of Oral Tongue Squamous Cell Carcinoma Shown by Integrative Meta-Analysis of Expression Profiles with Validations.
PLoS ONE 2016, 11(6): e0156582.
doi:10.1371/journal.pone.0156582. Impact Factor-3.8
19. Viveka TS, Shyamsundar V, Krishnamurthy A, Ramani P, Ramshankar V.
p53 Expression Helps Identify High Risk Oral Tongue Pre-malignant Lesions and Correlates with Patterns of Invasive Tumour Front and Tumour Depth in Oral Tongue Squamous Cell Carcinoma Cases.
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Impact Factor- 1.5
20. Maremanda NG, Roy K, Kanwar RK, Shyamsundar V, Ramshankar V, Krishnamurthy A, Krishnakumar S, Kanwar JR.
Quick chip assay using locked nucleic acid modified epithelial cell adhesion molecule and nucleolin aptamers for the capture of circulating tumor cells.
Biomicrofluidics 2015 Sep 29;9(5):054110.
Impact Factor-2.535
21. Maremanda NG, Roy K, Kanwar RK, Shyamsundar V, Ramshankar V, Krishnamurthy A, Krishnakumar S, Kanwar JR.
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22. Ramshankar V, Soundara VT, Shyamsundar V, Ramani P, Krishnamurthy A.
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NATIONAL

1. Catakapatri Venugopal Divyambika, Sankarapandian Sathasivasubramanian, Shyamsundar Vidyarani, Austin Ravi David, Srinivasan Harinee, Ramshankar Vijayalakshmi.
Clinicopathological Correlation of Cyclooxygenase 2 Expression in Oral Submucous Fibrosis: An Immunohistochemical Study.
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2. Ramesh Bhargavi; Aswath Nalini; Shyamsundar Vidhya Rani.
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3. Mahboob Kadher Masthan, S. Karthika Nagarajan, Usha Subbiah, Vidyarani Shyamsunder, Aravindababu Narayanasamy.
Cost Effective Salivary Viral DNA Isolation in Limited Resource Setting – A Pilot study.
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4. R. Mathangi, Vidyarani Shyamsundar, S. Shila.
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5. Dhivya Darshani, Nithya Anand, Vidyarani Shyamsundar, Bagavad Gita.
Comparative estimation of heat shock protein 70 (hsp 70) expression in health, gingivitis and periodontitis.
Journal of Biomedical and Pharmaceutical Research 9(1) 2020, 80-87.
6. Nagarajan S. K, Rani V, Narayanasamy A, Masthan M. K.
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Enviro Dental Journal 2019; 1(1).
7. Sathiyamoorthy J, Sundar V. S, Babu N. A, Shanmugham S, Hari R.
Evaluation of serum toll-like receptor 4 and nuclear factor-Kbp65 proteins in oral squamous cell carcinoma.
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Study on PIK3CA Gene Mutations in Oral Squamous Cell Carcinoma among South Indian Populations.
Biomed Pharmacol J, 11(2): 2018.
9. Hari R. Sathiyamoorthy J, VIDYARANI S, Shanmugham S, Mani J. G.
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 11. Krishnamurthy A, Ramshankar V, Murhekar K, Vidyarani S, Raghunandhan GC, Das A, Desai PB, Albert K.
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 12. Sathiyamoorthy J, Durairaj P, Shyamsundar V, Shanmugham S, Mani J. G, Natarajan S.
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Biomed Pharmacol J 2017;10(4).
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 14. In vitro Anticandidal effect of three natural essential oils against *Candida Albicans* biofilm formed on acrylic resin blocks.
Mathangi R., Kesavaram Padmavathy, Krishnan Mahalakshmi, Vidyarani Shyamsundar.
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 15. Rani V., Masthan M.K., Aravindha B., Leena S.
Aggressive Calcifying Epithelial Odontogenic Tumor of the Maxillary Sinus with Extraosseous Oral Mucosal Involvement: A Case Report.
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 16. Vidya Rani, S. Leena Sankari, N. Aravindha Babu.
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 17. Vidya Rani, Masthan K. Mahaboob Kadar, Aravindha Babu, Leena Sankari, Gayathiri Krishnasamy.
Odontogenic myxoma diagnostic dilemma: A case report and review of literature.
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Primary biphasic synovial sarcoma of gingiva: Report of a rare case.
JOMFP 2014;18(1):77–80.
 20. Vidya Rani, G. Venkateswara Rao, Madala Jaya Kiran.
Solid Rhabdomyosarcoma in a child. A case report.
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 21. Lo J., McNaughtan J., Rani V., Maric D., Smith A., McCullough M., Chandu A.
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 Undifferentiated carcinoma of the submandibular salivary gland with fulminant clinical behavior: Report of a case.
Indian J Pathol Microbiol. 2006 Apr;49(2):283–5.
23. Rajendran R., Rani V., Shaikh S.
 Pentoxifylline (Trental) in the treatment of early oral submucous fibrosis: a clinical trial.
Indian J of Dent Res 2006 Oct–Dec; 17(4): 190–8.
24. Rajendran R., Vidyarani.
 Familial occurrence of oral submucous fibrosis: report of 8 families from Northern Kerala, South India.
Ind J Dent Res 2004: 15(4): 139–144.

BOOKS PUBLISHED

1. Co-Authored book on “Colour Atlas of Oral Cancer” - Jaypee Publishers.
2. Co-Authored book on “Essentials of Oral Pathology” Jaypee Publishers (in Press).
3. Co-Authored a Chapter on “Updates in Human Papilloma Virus” published on February 17, 2016, in www.avidscience.com.

CONVENTIONS / CONFERENCES / PAPER PRESENTATIONS

S. No	Conference / Seminar Details	Highlights
1	Joint Conference of ISMPO & ISO, Hotel Hilton, Chennai (28–30 Oct 2022)	Presented paper on “ <i>Role of SNP in carcinogenesis of gingivo-buccal squamous cell carcinoma among long-term tobacco chewers</i> ”; 2nd Prize – Oral Presentation (Head & Neck Category)
2	21st Annual Conference of Foundation for Head and Neck Oncology (Virtual), Thiruvananthapuram (10–12 Dec 2021)	Poster: “ <i>Expression of p16/CDKN2A has no association with high-risk HPV in OSCC</i> ”

3	Global Symposium on Head & Neck Cancer (India–USA Webinar), 9 Apr 2021	Certificate of Participation
4	3rd International Saliva Summit of India (SALSI), 29–31 Jan 2021	Guest Speaker – <i>“Salivary Biomarkers in OSCC”</i>
5	FHNO 2019, Leela Palace, Chennai (11–13 Oct 2019)	Paper: <i>“Exome sequencing and validation of mutation profiles in gingivo-buccal OSCC”</i>
6	Indo-UK Oncology Summit, Chennai (15–16 Dec 2017)	Certificate of Participation
7	National Workshop on Research Methodology & Statistical Analysis, Chennai (17–19 Nov 2017)	Certificate of Participation
8	Quality Management Systems (ISO 15189:2012), Cancer Institute (WIA), Chennai (5–8 Oct 2016)	Certificate of Participation
9	NGBT International Conference, HICC Hyderabad (1–3 Oct 2015)	Poster: <i>“p16 is not a surrogate marker for HPV”</i>
10	HANCON 2015, Chennai (23 Aug 2015)	Certificate of Participation
11	CDSA Ethics Committee Training, Kilpauk Medical College (19–20 Aug 2015)	Certificate of Participation
12	“Genetic Diseases: From Mendelian to Malignancies”, IIT Chennai (17 Aug 2015)	Certificate of Participation
13	Eurasian Head & Neck Cancer Conference, Chennai (2–4 Jan 2015)	Paper: <i>“p53 expression in oral cancer”</i>
14	Surgical Techniques in Oral Cancer, Cancer Institute (WIA), Chennai (9 Mar 2014)	Certificate of Participation
15	CANCERCON 2014, IIT Chennai	Certificate of Participation
16	Sree Balaji Dental College, Chennai (30 Jan 2013)	Guest Lecture – <i>“Recent Concepts in Oral Cancer”</i>
17	First Midterm National Conference, Saveetha Dental College (24–26 Jan 2013)	Certificate of Participation
18	Zonal CDE, Mamata Dental College, Khammam	Guest Lecture – Fibro-osseous lesions
19	Zonal CDE, Sri Sai Dental College (28 Feb 2012)	Certificate of Participation
20	A.P. State IDA Conference, Khammam (16–18 Dec 2011)	Certificate of Participation
21	National Oral Pathology Conference, Ramoji Film City (Nov 2011)	Certificate of Participation

22	Oral Pathology Zonal CDE, Mamata Dental College (29 Nov 2011)	Certificate of Participation
23	CDE on Stem Cell Therapy, Kamineni Dental College (30 Apr 2011)	Certificate of Participation
24	CDE on Forensic Odontology, Panineeya Dental College, Hyderabad (8–9 Nov 2010)	Certificate of Participation
25	ORCA 2006, Regional Cancer Centre, Trivandrum (27–29 Jan 2006)	Posters: <i>Familial occurrence of OSMF; Pentoxifylline in OSMF</i>
26	Third National CME in Pathology, Trivandrum (13–15 Aug 2005)	Paper: <i>Familial occurrence of OSMF</i>
27	XIII National Conference IAOMP, Calicut (19–21 Nov 2004)	Paper: <i>Familial occurrence of OSMF – report of eight families</i>
28	IV National Triple 'O' Symposium, RV Dental College, Bangalore (14–15 Aug 2004)	Certificate of Participation
29	IV National PG Convention IAOMP – “SynchroPath”	Certificate of Participation
30	Symposium on OSMF, Govt. Dental College Trivandrum (5 Jun 2004)	Paper: <i>Morphohistometric analysis of tumor fronts</i>
31	Workshop on Research Methodology & Ethics, Karakonam (22 May 2004)	Certificate of Participation
32	CME on HIV/AIDS, Trivandrum (21 Apr 2004)	Certificate of Participation
33	16th Annual Conference ISDR, Bangalore (7–8 Feb 2004)	Paper: <i>Oral brush biopsy in precancerous lesions</i>
34	58th Indian Dental Conference, Vijayawada (22–25 Jan 2004)	Paper: <i>OSMF – autoimmune disease?</i>
35	CME on Cell & Molecular Biology, Trivandrum (9 Jan 2004)	Certificate of Participation
36	XII National Conference IAOMP, New Delhi (2003)	Poster: <i>Intestinal parasites & anemia in OSMF</i>
37	3rd National PG Convention IAOMP, Bangalore (11–12 Jul 2003)	Certificate of Participation
38	22nd Annual Convention IACR, Trivandrum (10–12 Jan 2003)	Certificate of Participation

AWARD

1. Recipient of 2nd Prize in Best oral presentation of Head and Neck Category in Joint conference of Indian Society of Medical and Pediatric Oncology (ISMPO) and Indian Society of Oncology (ISO) held from 28th-30 October 2022 at Hotel Hilton, Chennai.
2. Recipient of Best paper Award- 2005, 57th IAPM Kerala chapter Meeting and 3rd National CME in Pathology, Trivandrum, Kerala.

