

## Faculty CV Template

**Dr. PRABHU MANICKAM NATARAJAN**

### Academic Rank

Assistant Professor in Periodontics

### Qualifications

- BDS
- MDS (Periodontics)
- PhD (Periodontics)

### Research field(s)

- Soft tissue Lasers in Periodontics.
- Artificial intelligence in Dentistry
- Prevalence of periodontal diseases

### Publications *(Last five years)*

1. Non-Collagen Protein in the Dentin Tissue –The Role in the Process of Dentinogenesis. Biomedical & Pharmacology Journal, Vol. 11(2), June 2018, 843-849.
2. Hemorrhage control, infection prevention and application on anesthetics in exodontia of natal teeth. Acta StomatologicaNaissi, Vol 34, Issue 77, June 2018, 1813-1820.
3. Soft tissue LASER's in Periodontics, Abstract published in Journal of Clinical Periodontology, Vol 45, IssueS 19, June 2018. **(Q 1 Journal)**
4. Bone grafts in Periodontal Regeneration-Original Research, Indian Journal of Public Health Research and Development, Vol 9, Issue 11, November 2018, 289-292.
5. Soft tissue Dental Lasers, Indian Journal of Public Health Research and Development, Vol 9, Issue 11, November 2018, 571-576.
6. A Clinical study on the circadian rhythm of salivary cortisol on aggressive periodontitis and its correlation with clinical parameters using electrochemiluminescence immunoassay method, The Journal of Contemporary Dental practice, Vol 20, Issue 4, April 2019, 482-488.

7. Characterization of oral fibroblasts: An in vitro model for oral fibrosis, *Journal of Oral and Maxillofacial Pathology*, Vol 23, Issue 2, May-Aug 2019, 198-202.
8. Erythema Multiforme Versus Herpes Simplex Virus, What is the Diagnosis? A Review and a Case Report. *Biomed Pharmacol J* 2019;12(4),2123-2132.
9. Transmission of actinobacillusactinomycetemcomitans&porphyromonasgingivalis in periodontal diseases. *Indian Journal of Public Health Research and Development*, Vol 11, Jan 2020, 777-781.
10. Forensic Odontology-A Review. *Indian Journal of Forensic Medicine & Toxicology*, Nov 2020.14(4), 4143-4147.
11. The Association between Teeth Loss and Oral Health Problems. *Indian Journal of Forensic Medicine & Toxicology*, 2020. 15(1), 1892-1902.
12. An In-Vitro Comparative Analysis on Root Canal Transportation, Centering Ability, Angle of Curvature Using XP-Endo Shaper and Wave One Gold Rotary Systems-A CBCT Study. *Systematic Reviews in Pharmacy*. 2021; 12(1): 1572-1580.
13. Role of Herbal Medicine in Periodontics- A Review. *Systematic Reviews in Pharmacy*. 2021; 12(1): 1611-1613.
14. Evaluation of halitosis and sialometry in Emirati diabetic patients before and after periodontal treatment. *Indian Journal of Forensic Medicine & Toxicology* . April-June 2021, Vol. 15, No. 2, 527-534.
15. Dental Management Of Diabetic Patients: A Review. *Nat. Volatiles & Essent. Oils*, 2021; 8(5): 360 – 365
16. Tobacco Use and Its Effect on Dental Extraction: A Review. *Nat.Volatiles&Essent.Oils*,2021;8(5):494–496.
17. A Case of Multiple Mandibular Molar Extractions for a Hemophilia a Patient. *Indian Journal of Forensic Medicine & Toxicology* . Jul-Sep2021, Vol. 15 Issue 3, p948-955. 8p.
18. Consumption of tobacco and its impact on oral health: A review. *Nat.Volatiles&Essent.Oils*,2021;8(5):634–637
19. Periodontal health status in patients with periodontal disease: a descriptive study among Emirati population. *International Journal of Public Health Science*.2021;11(2):
20. Covid-19, A Litmus Test On Travel Medicine, Global Surveillance And International Health Regulations? A Critical Review. *Nat. Volatiles & Essent. Oils*, 2021; 8(4): 6942-6951
21. Computational simulations of identified marine-derived natural bioactive compounds as potential inhibitors of oral cancer. *FUTURE SCIENCE OA*, published online on 2022; 8 (3): <https://doi.org/10.2144/fsoa-2021-0148>
22. Evolution of Indices in the Screening of Periodontal Diseases: A Narrative Review. *Indian J Dent Sci* 2022;14:45-50.
23. Dental Bioinformatics – Current Scope and Future perspectives. *Research J. Pharm. and Tech*. 2022; 15(5):2351-2356. DOI: 10.52711/0974-360X.2022.00391
24. Perception of dental interns on the impact of their gender during training period and future dental practice—cross sectional survey in dental colleges in Chennai, India. *Journal of Positive School Psychology*; 2022, Vol. 6, No. 5, 1045–1050

25. Emerging Biosensors for Oral Cancer Detection and Diagnosis—A Review Unravelling Their Role in Past and Present Advancements in the Field of Early Diagnosis. *Biosensors* 2022, 12, 498. <https://doi.org/10.3390/bios12070498>
26. Current trends and future perspectives on dental nanomaterials – An overview of nanotechnology strategies in dentistry, *Journal of King Saud University - Science*, Volume 34, Issue 7, 2022, 102231, <https://doi.org/10.1016/j.jksus.2022.102231>.
27. Comprehensive Review on Development of Early Diagnostics on Oral Cancer with a Special Focus on Biomarkers. *Appl. Sci.* 2022, 12, 4926. <https://doi.org/10.3390/app12104926>
28. Review on Anticancer properties of Piperine in Oral cancer: Therapeutic Perspectives. *Research J. Pharm. and Tech.* 2022; 15(7):3338-3342. DOI: 10.52711/0974-360X.2022.00558
29. Newer congeners of doxycycline – do they hold promise for periodontal therapy?. *Archives of Medical Science - Civilization Diseases.* 2022;7(1):16-23. doi:10.5114/amscd.2022.119600.
30. Evaluation of Block Allograft Efficacy in Lateral Alveolar Ridge Augmentation. *The Journal of Contemporary Dental Practice* (2022): 807-812. 10.5005/jp-journals-10024-3377
31. A Comprehensive Review on Bio-Based Materials for Chronic Diabetic Wounds. *Molecules.* 2023; 28(2):604. <https://doi.org/10.3390/molecules28020604>
32. Review Insights on Salivary Proteomics Biomarkers in Oral Cancer Detection and Diagnosis. *Molecules* 2023, 28, 5283. <https://doi.org/10.3390/molecules28135283>
33. Review of the Role of Nanotechnology in Overcoming the Challenges Faced in Oral Cancer Diagnosis and Treatment. *Molecules* 2023, 28, 5395. <https://doi.org/10.3390/molecules28145395>
34. Virtual Screening of Natural Compounds as Potential SARS-CoV-2 Mpro Inhibitors: A Molecular Docking and Molecular Dynamics Simulation Guided Approach, in *Proceedings of the 27th International Electronic Conference on Synthetic Organic Chemistry*, 15–30 November 2023, MDPI: Basel, Switzerland, doi:10.3390/ecsoc-27-16049

## Courses Taught (Last five years)

- Pre-Clinical Periodontics (Undergraduate)
- Clinical Periodontics (Undergraduate)
- Clinical Periodontics (Internship)
- MDS Periodontics

## Professional Experience

**Lecturer**, Sree Balaji Dental College & Hospital, Chennai, from Feb 9 , 2004 - Dec 14 , 2006.

**Senior Lecturer**, Ekalavya Dental College & Hospital, Jaipur, from Dec 15, 2006 - Feb 19, 2007.



**Reader & Head of the Department of Periodontics & Preventive and Community Dentistry,** Ekalavya Dental College & Hospital. Jaipur, from Feb 20, 2007 - Dec 14,2007.

**Reader,** Adhiparasakthi Dental College & Hospital, Tamilnadu, from Dec 15,2007 -19th February 2009.

**Associate Professor,** Adhiparasakthi Dental College & Hospital, Tamilnadu, from February 20 -November 5, 2009.

**Associate Professor,** Tagore Dental College & Hospital, Chennai, Tamil Nadu from 6th November 2009 – 12 Feb 2012.

**Professor,** Tagore Dental College & Hospital, Chennai, Tamil Nadu, India, from 13-02-2012 – 18 June 2012.

In charge, Department of Preventive & Community Dentistry, Tagore Dental College & Hospital, Chennai, Tamil Nadu from 6th November 2009 -18 June 2012.

**Professor and Department In-Charge,** Penang International Dental College, Penang, Malaysia, from 20-06-2012 to 26-09-2014.

**Research Coordinator,** Penang International Dental College, Penang, Malaysia, from 20-12-2012 to 26-09-2014.

Specialist Periodontist, Thumbay Medical and Dental Centre, Sharjah from 26-08-2015 to 30-06-2020.

**Assistant Professor,** Department of Dental Surgical Sciences, College of Dentistry, Gulf Medical University, Ajman, UAE from 30-09-2014 to 22-05-2019.

**Associate Professor,** Department of Dental Surgical Sciences, College of Dentistry, Gulf Medical University, Ajman, UAE from 22-05-2019 to 30-06-2020.

**Associate Professor** in Periodontics, College of Dentistry, University of Science and Technology of Fujairah, UAE from 24-08-2020 to 27 -05-2021.

**Assistant Professor** in Periodontics, Department of Clinical Sciences, Centre of Medical and Bio-Allied Health Sciences and Research, College of Dentistry, Ajman University, Ajman, UAE, from 01 September 2021 to till date.

## Committees Work

Examination Assessment Committee, College of Dentistry, Ajman University.

Research Ethics Sub-committee, College of Dentistry, Ajman University.

## Honors and Awards

- 1) First to be awarded PhD in Periodontics from Bharath University, India
- 2) First to receive from India : Fellowship in FDT, Royal College of Surgeons, Edinburgh
- 3) Editor in Chief, International Journal of Dental Sciences and Research, 2014-2016
- 4) Editorial board member and reviewer in many international dental journals
- 5) Member, Indian Dental Association
- 6) Invited as Poster judge in AEEDC 2019
- 7) Guest Editor-Soft Tissue Applications of Lasers in Dentistry, Scopus indexed
- 8) Guest Editor-Revolutionizing Oral Healthcare: The Pivotal Role of Artificial Intelligence in Diagnosing and Treating Oral Diseases, Scopus indexed
- 9) Associate Editor- Journal of Dentistry and Bio-Allied Health Sciences

## Other Contributions and Achievements

### Research grants:

1. Completed one project as **co-investigator** funded by Al Jalila Foundation, Dubai, UAE 2020.
2. **Principal Investigator** in the research grant approved in Ajman University (2022-IRG-DEN-6).
3. **Principal Investigator** in the research grant approved in Ajman University (2023-IRG-DEN-5).

### PhD Examiner in

4. 1.Dr. MGR Medical University, India.
5. 2.Bharath University, India.
6. 3. Annamalai University, India.
7. 4. MAHER University, India.
8. 5. Sri Ramachandra University, India.
9. 6. Sri Balaji Vidhyapeeth University, India.

## CONFERENCES & CDE PROGRAMMES ATTENDED:

1. Microflora of Oral Cavity - Nov 1997, Sree Balaji Dental College, Chennai.
2. 53rd Indian Dental Association Conference, 12-14 Dec 1998, Bangalore.
3. 26th Indian Society of Periodontology Conference 22-24 Dec, 2001, Trivandrum.
4. 19th Tamilnadu State Dental Conference, 28-30th Dec, 2001, Chennai.
5. Science Day in Annamalai University, Feb 28, 2002, Chidambaram.
6. Indian Society of Periodontology Workshop, 13 & 14th July, 2002, Chennai.
7. 27th Indian Society of Periodontology Conference, 22 - 24th Nov, 2002 Mt. Abu.
8. 20th Tamilnadu State Dental Conference, 29th Nov - 1st Dec, 2002, Trichy.
9. 15th Indian Society of Dental Research Conference, 5 & 6th April, 2003, Coimbatore.
10. Indian Dental Association Continuing Dental Education program & Hands-On Course in Implant Dentistry, Aug 9th 2003, Chidambaram.
11. 23rd Tamilnadu State Dental Conference, 2&3th Nov 2005, Chidambaram.
12. Asia -Pacific Dental Conference, Nov 4 , 2005, Chennai.
13. 30th Indian Society of Periodontology, Conference, Nov 5 - 7th 2005, Chennai .
14. 24th Tamilnadu State Dental Conference, Nov 30th - Dec 3 , 2006, Kumbakonam.
15. "Comprehensive Implant Training" course by Institute for Dental Excellence, 2nd January 2009-4th January 2009, Chennai .
16. Continuing Professional Development program on" Paediatric Endodontics" conducted by Indian Dental Association, Tamil Nadu Branch, 15 August 2009, Ooty.
17. Continuing Dental Education program In Dental Hypersensitivity, on 11th October 2009, Chennai.
18. Continuing Professional Development program on "Updates in Dental Implants" , Meenakshi Ammal Dental College & Hospital, Chennai, 18-19 December, 2009, Chennai.
19. 63rd Indian Dental Association Conference, 12- 14 Feb 2010, Chennai.
20. 27th Tamilnadu State Dental Conference Nov 26th - Nov 28th , 2010, Kanchipuram.
21. All India UG Convention, Dec 2nd -Dec 4th 2011, Chennai.
22. Continuing Professional Development program on "Quality Management system" , 12th October, 2012, Penang, Malaysia.
23. Continuing Professional Development program on "Ethics & Jurisprudence" , 15th October, 2012, Penang, Malaysia.
24. Continuing Professional Development program on " Composite Multilayering Technique", 19th October, 2012, Penang, Malaysia.
25. Continuing Professional Development program on " Basics on Genetics for Dentistry", 8th January, 2013, Penang, Malaysia.
26. Continuing Professional Development program on "Management of Medical Emergencies in Dental Practice", 8th January, 2013, Penang, Malaysia.
27. Continuing Professional Development program on "Orthodontics for you and me", 19th March 2013, Penang, Malaysia.
28. Continuing Professional Development program on "Continuous Assessment" , 30th April, 2013, Penang, Malaysia.

29. Continuing Professional Development program on "Choosing the right statistical test", 30th April, 2013, Penang, Malaysia.
30. 35TH Asia Pacific Dental Conference, 7-12th May, 2013, Kuala Lumpur, Malaysia.
31. Continuing Professional Development program on "Internal Auditor's Training", 17th & 18th October, 2013, Penang, Malaysia.
32. UAE International Dental Conference & Arab Dental Exhibition AEEDC Dubai 2014, 4th-6th February, 2014, Dubai.
33. PIDC Alumni Scientific Conference & Trade Exhibition 15-17 August 2014, Penang, Malaysia.
34. UAE International Dental Conference & Arab Dental Exhibition AEEDC Dubai 2015, 17th-19th February 2015.
35. IBN SINA Conference, UAE, 19-20 March 2015.
36. 7th Annual Conference on New Challenges in Dentistry, Gulf Medical University, UAE, 24th April, 2015.
37. IBN SINA Conference, UAE, 29-30 October 2015.
38. AKMG Conference, Sharjah, UAE, 15th January, 2016.
39. AEEDC 2016, February 2016, Dubai, UAE,
40. AKMG Conference, Ajman, UAE, February 11th and 12th, 2016.
41. IBN SINA Conference, UAE, March 2016.
42. 8th Annual Conference on Dentistry in Changing Time – 29th April 2016, Sheraton Hotel, Sharjah, UAE.
43. Seminar on Dental updates 2016, 18th April 2016, at Thumbay Medical and Dental Specialty Center, Sharjah, UAE.
44. LASER CME Al Maktoum University in December 2016, UAE.
45. "Diode and Erbium LASER interaction on Dental Tissue" LASER course Maktoum Bin Hamdan Dental University College, UAE. in December 2016.
46. "LASERS IN DENTISTRY" CME Thumbay Hospital, Sharjah, UAE, January 2017.
47. IBN SINA Conference, UAE, March 2017.
48. AKMG Conference, Ajman, UAE, May 2017.
49. "LASERS IN DENTISTRY" Seminar & Workshop conducted in Thumbay Hospital, Sharjah, UAE, December 08, 2017.
50. AEEDC 2018, February 2018, Dubai, UAE.
51. IBN SINA Conference, March 2018 UAE.
52. 10th Annual Dental Conference, GMU, UAE, Apr 2018.
53. Emerging Trends in the use of antibiotics in Pediatric Dentistry, GMU, UAE, Sept 2018.
54. Dental management of Snoring and sleep apnea, UAE, Sept 2018.
55. World Dental Conference 2018, UAE, September 30, 2018
56. International Dental Conference 2018, March 2018, India.
57. EuroPrio9, Amsterdam, June 2018.
58. Preventive horizon in Pediatric and public health Dentistry, March 2019, India.
59. 11<sup>th</sup> Annual Dental Conference, GMU, UAE, Apr 2019.
60. Endodontics workshop, 25th & 26th January 2019, at Thumbay Medicity, Ajman – UAE.

## GUEST LECTURES GIVEN:

### Guest Lectures Given in Conferences/CME's in UAE

1. IBN SINA Conference 19-20 March 2015.
2. 7TH Annual Conference on New Challenges in Dentistry, Gulf Medical University, 24th April 2015.
3. IBN SINA Conference 29-30 October 2015.
4. AKMG Conference, Sharjah, 15th January 2016.
5. AKMG Conference, Ajman, February 11th and 12th, 2016.
6. Seminar on Dental updates 2016, 18th April 2016, at Thumbay Medical and Dental Specialty Center, Sharjah.
7. 8th Annual Conference on Dentistry in Changing Time – 29th April 2016, Sheraton Hotel, Sharjah, UAE.
8. IBN SINA CME, Ajman, UAE, May 2016.
9. Journal Club Meeting on 9th October, 2016, Thumbay Hospital, Ajman.
10. TWO Lectures & **LIVE DEMONSTRATION OF LASER SURGERIES** in “LASERS IN DENTISTRY” CME Thumbay Hospital, Sharjah, January 13, 2017.
11. “Management of Gingival recession” Dental CME by MeDeCon International Events and AKMG Emirates-Region 2, at Ajman University, Ajman on February 10th 2017.
12. “Application of LASER in Surgical Periodontics, Symposium on Surgical Periodontics”, College of Dentistry, Ajman University, March 2017.
13. Review of suture materials & a case report on cyanoacrylates, IBN SINA Conference, Ajman, UAE, 23 March 2017.
14. “Laterally repositioned flap”, IBN SINA CME, Ajman, UAE, May 2017.
15. ACCELERATED ORTHODONTICS, AKMG Conference, Ajman, May 2017.
16. Lecture & **LIVE DEMONSTRATIONS OF 2 LASER SURGERIES** in “LASERS IN DENTISTRY” Seminar & Workshop conducted in Thumbay Hospital, Sharjah, December 08, 2017.
17. “Accelerated Orthodontics” IBN SINA CME, Ajman, UAE, March 1, 2018.
18. “Laser as additional therapy with antibiotics in Pediatric Dentistry” in the Seminar and Workshop on “Emerging trends in the use of antibiotics in Pediatric Dentistry” at Thumbay Medicity, Ajman on 21st September 2018.
19. “Management of periodontal pockets and gingival enlargements using lasers” in the World Dental Conference 2018, Dubai on 30 September 2018.
20. “Perio-Endo interrelationships”, Endodontics workshop, 25th & 26th January 2019 at ThumbayMedicity, Ajman – UAE.
21. **LIVE DEMONSTRATION OF LASER SURGERIES** in the 11<sup>th</sup> Annual Dental Conference, GMU, UAE, Apr 2019.
22. “Preventive Periodontics”, AKMG annual CME 24 October 2019, Ajman University, UAE.

23. "An introduction about Lasers in Dentistry", lecture & **LIVE DEMONSTRATION OF LASER** Gingivectomy in the Seminar & Workshop on Lasers in Dentistry 15 November 2019, atThumbayMedicity, Ajman – UAE.
24. "Preventive Periodontics", 19 Dec 2020, Dental CME by Modern Medical Center, UAE.
25. "Management of periodontal pockets and gingival enlargement by using Lasers", 19 Dec 2020, Dental CME by Modern Medical Center, UAE.
26. Soft tissue lasers in Periodontics" 12Feb 2021, Dental CME by Modern Medical Center, UAE.

#### **Guest Lectures Given in Conferences/CME's outside UAE**

1. "A Drive against Hepatoviral Diseases" --53rd Indian Dental Association Conference,1998.
2. " Lasers in Periodontics" - 19th Tamilnadu State Dental Conference,2001.
3. "Cyanoacrylates in Periodontics" - 27th Indian Society of Periodontology Conference,2002. (Selected as the First Best Paper).
4. "Seal to Heal" - 20th Tamilnadu State Dental Conference,2002, (selected as the Third Best Paper).
5. "Role of Tissue Engineering in Periodontics" - 15th Indian Society of Dental Research Conference,2003.
6. "Bone Grafts in Periodontics" - 24thTamilnadu State Dental Conference, 2006(Selected as the Second-Best Paper).
7. "A review on beta glucuronidase present in the peri- implant sulcular fluid "- Indian Dental Association Conference in Chennai, February 12th -February 14, 2010.
8. "Updates in Periodontics for General Practitioners"- Tamilnadu State Dental Conference, 2010(Noncompetitive category).
9. "Comparison of enzyme  $\beta$ -glucuronidase and alkaline phosphatase levels around implants"- 35th APDC, Kuala Lumpur, 7-12th May 2013.
10. Soft Tissue Lasers in Periodontics-Lecture and Video Demonstration, Indian Dental Association CDE, August 2017.
11. "Preventive Periodontics" Preventive horizon in Pediatric and public health Dentistry, March 2019.