

**MARATHA MANDAL'S NATHAJIRAO G HALGEKAR  
INSTITUTE OF DENTAL SCINECS & RESEARCH CENTRE,  
BELAGAVI.**

**Research Projects (2017-2022)**

**Name of Department: Periodontology**

**Completed Projects**

<b>Sl no</b>	<b>Title of the Project</b>	<b>Year of Completion</b>
1	Estimation of interleukin-17 levels in gingival crevicular fluid from healthy individuals, chronic gingivitis and chronic periodontitis patients using ELISA.	2017-18
2	Assessment of Antimicrobial activity of Allium cepa: An Invtro Study	2017-18
3	Evaluation of interleukin-35 in saliva in periodontal health and disease.	2017-18
4	Comparative evaluation of antimicrobial efficacy of PRP,PRP+iPRF on the standard strains of Pg and Aa	2017-18
5	Detection and quantification of campylobacter rectus in subjects with periodontal healthy, gingivits and chronic periodontitis – a cross-sectional study	2017-18
6	Determination of antibacterial activity ofg simbastatin agaiunst periodontal pathogens, Pg Aa: An Invitro Study	2017-18
7	Detection and quantification of mast cells and dendritic cells in health and chronic periodontitis patients – an ihc study	2017-18
8	Detection and quantification of mast cells in healthy individuals , individuals with chronic periodontitis with and without diabetes.	2017-18
9	Detection and Quantification of Eubacterium saphenum using rt-pcr	2017-18
10	Assessment of Activity of Cantheranthous roseus on P gingivalis. T. denticola and T. forsythia: An Invitro Study.	2017-18
11	Effect of standardised papaya fruit and leaf extracts as a local drug delivery agent for the treatment of chronic periodontitis: a comparative clinical study	2018-19
12	Assessment of antimicrobial activity of carica papaya leaf and raw fruit extract on periodontal pathogens: an invitro study	2018-19
13	A comparative evaluation of microbial count over silk suture, tetracycline soaked suture and chlorhexidine soaked suture – a clinico-microbiological study	2018-19
14	Assessment of antimicrobial activity of murraya pathogens : an invitro study	2018-19
15	Isolation and characterization of stem cells derived from	2018-19

	healthy and diseased granulation tissue and their sheet functionalities – an exvivo study	
16	Comparison of effect of curcumin and its nano particles on healthy and diseased granulation tissue stem cells – an experimental study	2018-19
17	Comparative assessment of exfoliated gingival cells in healthy individuals, chronic periodontitis patients with and without tobacco chewing habit: a cytomorphometric study	2018-19
18	Evaluation of platelet count in whole blood and injectable platelet rich fibrin – a comparative study	2018-19
19	Comparative evaluation of effects of locally delivered aloe vera gel and tulsi gel as an adjunct to srp in treatment of chronic periodontitis – a clinical study	2018-19
20	Evaluation of antimicrobial effect of aloe vera gel, tulsi gel and its combination gel on periodontal pathogens- an invitro study	2018-19
21	Effect of ldd of Murraya koenigii (curry leaves) gel as an adjunct to srp in the treatment of chronic periodontitis – a rct	2019-20
22	Comparative evaluation of antimicrobial activity of silk sutures coated with 0.2% hyaluronic acid gel & 0.2% chx gel on p.g – an invitro study.	2019-20
23	Assessment of effects of hydrogen water on human gingival fibroblasts cell culture in patients with chronic periodontitis – an ex-vivo study.	2019-20
24	Antibacterial effect of hydrogen water on plaque microbiota in patients with chronic periodontitis.	2019-20
25	Identification and comparison of cd 3 t cell marker and cd 69 memory t cell marker in the gingival tissues of healthy individuals and in chronic periodontitis patients with and without type ii diabetes mellitus. - an ihc study	2019-20
26	Comparison of seed & ripen fruit extract gel of carica papaya as an ldd agent in the treatment of chronic periodontitis- a split mouth rct	2019-20
27	Assessment of anti-microbial activity of carica papaya seed and ripen fruit extract on p.g, a.a and p.i – an invitro study	2019-20
28	The effect of Achyranthus aspera gel on chronic periodontitis patients – a clinical & microbiological study.	2019-20
29	Detection and comparison of archaea in healthy gingivitis and chronic periodontitis subjects by using conventional PCR	2020-21
30	Quantification and comparison of Treponema lecithinolyticum in healthy and chronic periodontitis subjects using real time - PCR	2020-21
31	To determine the antibiofilm property of aqueous extract of Allium sativum on P.gingivalis, P.intermedia and F.nucleatum in an artificially synthesized dental biofilm	2020-21
32	Effect of Allium sativum (local and hybrid variety) on neutrophils function	2020-21

33	Detection of filifactor alocis in healthy individuals and in patients with chronic periodontitis by fluoroscent insitu hybridisation	2020-21
34	Evaluation of the passage of Aggregatibacter actinomycetemcomitans through tetracycline loaded amnion membrane , an in-vitro study.	2020-21
35	Isolation, characterization & differentiation of stem cells from various dental sources. An in vitro study	2020-21
36	Evaluation of Antioxidant and anticancer activity of clove extract( Syzygium Aromaticum) on oral cancer cell lines by nanoemulsion technique: An invitro study	2021-22

### **Ongoing Projects**

<b>Sl no</b>	<b>Title of the Project</b>	<b>Year of Start</b>
1	Evaluation and comparison of 2 commercially available mouth washes on gingival fibroblast survival and migration: an In vitro study	2021-22
2	To evaluate the adhesion of Porphyromonas gingivalis on Amnion membrane treated with commercially available cetylpyridinium chloride containing mouthwash using real time PCR: an In vitro study	2021-22
3	To determine and compare anti inflammatory activity of aqueous and alcoholic extracts of Amorphophallus paeoniifolius on MMP 2 and MMP 9- an In vitro study	2021-22
4	Determination and comparison of anti-microbial activity of aqueous and ethanolic extracts of Amorphophallus paeoniifolius on periodontal pathogens- an In vitro study	2021-22
5	Effect of low-level laser therapy on the proliferation of gingival fibroblast treated with curcumin- an In vitro study	2021-22
6	Effect of low-level laser therapy on the apoptosis of gingival fibroblast treated with curcumin- an In vitro study	2021-22
7	Determination of the anti-biofilm activity of aqueous extract of Amorphophallus paeoniifolius on early and late colonisers in an artificially synthesised dental biofilm- an In vitro study	2021-22
8	Determination and comparison of anti-microbial activity of aqueous and ethanolic extracts of Amorphophallus paeoniifolius on periodontal pathogens- an In vitro study	2021-22
9	Antimicrobial photodynamic therapy mediated by methylene blue and doxycycline as photosensitizers on Tannerella forsythia, Porphyromonas gingivalis and Prevotella intermedia	2022-23
10	Antimicrobial photodynamic therapy mediated by methylene blue and doxycycline as photosensitizers on Aa	2022-23