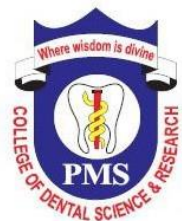


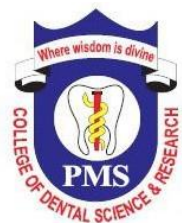
FACULTY RESEARCH PROJECTS



PMS COLLEGE OF DENTAL SCIENCE & RESEARCH

YEAR OF RESEARCH	NAME OF FACULTY	DEPARTMENT	TOPIC OF RESEARCH	STATUS
2013	Dr. Seba Abraham	Department of periodontics	Association of gingival tissue biotypes with gender and tooth morphology: A comparative Evaluation using probe transparency method	Completed
2014	Dr. Seba Abraham	Department of periodontics	Comparative evaluation of different treatment modalities for the management of dentin Hypersensitivity -A clinical study.	Completed
2014	Dr. Ambili R	Department of periodontics	The role of transcription factors in etiology and management of periodontal disease.	Completed
2014	Dr. Vivek V	Department of oral medicine and radiology	Estimation of errors in digital radiography Using PSP plates-A retrospective study	Completed
2014	Dr. Vivek V	Department of oral medicine and radiology	Estimation of errors in digital radiography Using CMOS sensor in extra oral radiographs - A retrospective Study	Completed

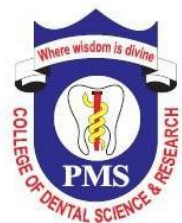
FACULTY RESEARCH PROJECTS



PMS COLLEGE OF DENTAL SCIENCE & RESEARCH

2014	Dr. Sunila Thomas	Department of oral medicine and radiology	Estimation of length and types of styloid Process using digital panoramic radiographs- A retrospective study	Completed
2014	Dr. Ranimol P	Department of oral medicine and radiology	Determination of dental disease and habit Related changes in oral immunology using salivary diagnostic Methods.	Completed
2014	Dr. Roopesh. R	Department of orthodontics and dentofacial Orthopaedics	Effect of two hemostatic agents on the shear Bond strength of orthodontic brackets-an invitro study.	Completed
2014	Dr. Madhav Manoj. K	Department of orthodontics and dentofacial orthopedics	Comparative evaluation of bradykinin levels in GCF of patients undergoing orthodontic therapy treated with chewing gums and low level lase Therapy for pain.	Completed
2014	Dr. Aneesh alim	Department of orthodontics and Dentofacial orthopedics	Clinical and radiographic evaluation of bone grafting in corticotomy Facilitated orthodontics in adults.	Completed

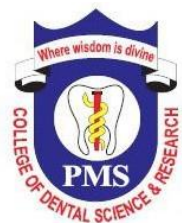
FACULTY RESEARCH PROJECTS



PMS COLLEGE
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2015	Dr. Sudeep S	Department of Prosthodontics	Genetic markers for residual ridge resorption in Dravidian Population- An in vivo study	Completed
2015	Dr. Nikhil Mathew Kurien	Department of oral surgery	Surgical anatomy of fissures and foramina in the orbits of adult human skull	Completed
2015	Dr. Nikhil Mathew Kurien	Department of oral surgery	Comparative evaluation of local anesthetic efficacy of Tramadol hydrochloride with adrenaline versus plain tramadol hydrochloride in the extraction of lower anterior teeth	Completed
2015	Dr. U-NU Sujathan	Department of conservative dentistry	Comparison of endodontic smear layer removal by various endodontic irrigants following activation with photon induced photoacoustic Streaming and passive ultrasonic irrigation -an in vitro study	Completed
2015	Dr. U-NU Sujathan	Department of conservative dentistry	Comparison of various endodontic irrigant's antimicrobial Efficacy following activation with photon induced photoacoustic Streaming and passive ultrasonic irrigation -an in vitro study	Completed

FACULTY RESEARCH PROJECTS



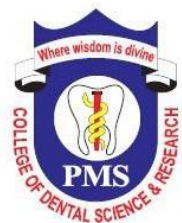
PMS COLLEGE
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2016	Dr. Roopesh R.	Department of orthodontics and dentofacial orthopedics	Efficacy of LLLT on analgesia during initial arch wire placement: An in-vivo study	Completed
2016	Dr. Madhav Manoj	Department of orthodontics and dentofacial orthopedics	Establishment of norms of beta angle, to assess Sagittal discrepancy in south Indian population	Completed
2016	Dr. Deepu Leander	Department of orthodontics and dentofacial orthopedics	Alkaline phosphatase levels in gingival Crevicular fluid among adolescents and adults- A comparative study	Completed
2016	Dr. Sunila Thomas	Department of oral medicine radiology	Comparison of variations in vertical angulation in root canal working length determination using Suni (CMOS) digital system and Storage Phosphor Plates with Conventional Film as Gold standard-An Invitro Study.	Completed
2016	Dr. Sunila Thomas	Department of oral medicine radiology	Estimation of length and calcification pattern of Styloid Process using digital Panoramic Radiograph-A cross-sectional study.	Completed
2016	Dr. Sunila Thomas	Department of oral medicine radiology	Frequency of Oral soft tissue, Hard tissue and intraosseous lesions in geriatric patients	Completed
2016	Dr Vinod Mony	Oral pathology and microbiology	Expression of ARNT2, VEGF, CD34 AND HIF-1 α in oral squamous cell carcinoma- An immunohistochemical study	Ongoing

FACULTY RESEARCH PROJECTS

2016	Dr Varun BR	Oral pathology and microbiology	Identification of cancer stem cells in oral squamous cell carcinoma and epithelial dysplasia using immunoexpression profile of OCT4, SOX2, CD44 & ALDH1	Ongoing
2017	Mrs Anita Yovas	Biochemistry	Cardioprotective effects of β -caryophyllene in isoproterenol induced myocardial infarcted rats	Ongoing
2017	Dr Roopesh	Department of orthodontics and dentofacial orthopedics	Comparison of nasopharyngeal airway and adenoid in different skeletal pattern.	Completed
2017	Dr. Madhav Manoj	Department of orthodontics and dentofacial orthopedics	Comparison Of staining And Inter-relationship Of Ligature Topography Among Two Esthetic Orthodontic Ligatures on Exposure to Dietary Media: An In vivo Study.	Completed
2017	Dr Arunima PR	Department of periodontics	Comparison of Surface microtopography and mechanodegradation characteristics of Platelet rich fibrin membranes using two different centrifugation protocols	Completed

FACULTY RESEARCH PROJECTS



PMS COLLEGE OF DENTAL SCIENCE & RESEARCH

2018	Dr.Roopesh	Department of orthodontics and dentofacial orthopedics	Evaluation of degree of rotation in maxillary impacted canines: A CBCT study	Completed
2018	Dr.Arunima P.R	Department of periodontics	Synthesis and characterization of PVA -Aloe vera based membranes for periodontal tissue regeneration: In vitro study.	Completed
2018	Dr.Arunima P.R	Department of periodontics	Synthesis and characterization of electrospun nanofiber composite scaffold for Periodontal tissue regeneration	Ongoing
2018	Dr. Rasha Nasim Dr. Madhav Manoj	Department of orthodontics and dentofacial orthopedics	A comparative evaluation of micro-osteoperforation with delayed extraction-A clinical trial	Ongoing
2018	Dr Adersh GA	Department of oral and maxillofacial surgery	Development of an application on android platform for radiographic assessment of impacted maxillary teeth.	Completed
2018	Dr.Aswathy	Department of oral medicine radiology	Sex determination from morphometric analysis of maxillary sinus using cone-beam computed tomography	Completed
2018	Dr Neethu Suresh	Department of Periodontics	Effectiveness of school oral health education intervention among 6-12 year old children in Thiruvananthapuram educational district: A cluster randomized controlled trial	Completed
2019	Dr Arunima PR	Department of Periodontics	Biological Characterization of Platelet-rich Fibrin preparations using three different centrifugation Protocols	Completed

FACULTY RESEARCH PROJECTS

2019	Dr Arunima PR	Department of Periodontics	Invitro Evaluation of Antimicrobial properties of varied concentrations Zinc oxide Nanoparticles	Completed
2019	Dr Ambili R	Department of Periodontics	Evaluation of the Efficacy of an herbal mouthwash in the Management of Chronic Periodontitis – a Randomized controlled clinical trial	Completed
2019	Dr Arya S	Microbiology	Bio prospecting quorum sensing inhibitors for the management of dental caries	Ongoing
2019	Dr. Aswathy	Department of oral medicine radiology	Prevalence of Human papillomavirus (HPV) in oral lichen planus (OLP) and its role in Malignant transformation.	Completed
2019	Dr Vinod Nair	Department Of OMFS	Tumour genomics and circulating micro-RNA estimation profiling in oral squamous cell carcinoma patients to predict the post-surgical recurrence	Ongoing
2019	Dr. Ahammed Haris H.	Department of oral and maxillofacial surgery	Comparison between sutures versus laser assisted microvascular anastomoses by means of indocyanine green infused chitosan patches on cadaveric goat blood vessel: A pilot study	Ongoing
2020	Dr Deepu Leander	Department of orthodontics and dentofacial orthopedics	Comparative evaluation of antimicrobial efficacy of povidine iodine and chlorhexidine as pre procedural oral rinse in orthodontic patients	Completed
2020	Dr. Mathew Tharakan	Department of oral and maxillofacial surgery	Pre emptive and post-surgical evaluation of pain after giving ibuprofen	Completed
2020	Dr Adersh GA	Department of oral and maxillofacial surgery	Maxillofacial surgery planning and Simulation Software	Completed
2020	Dr. Shiana	Department of oral medicine radiology	A comparative study of CBCT and Conventional occlusal radiographs for determining sexual dimorphism using linear and angular measurements	Ongoing
2020	Mrs Mridula R Chandran	Microbiology	Hydrogel assisted delivery of antimicrobial peptides (Nisin) for management of dental caries	Ongoing

FACULTY RESEARCH PROJECTS

2021	Dr Arunima PR	Department of Periodontics	Characterization of human Periodontal ligament cells cultured on electrospun composite scaffolds	Ongoing
2021	Dr Rasha	Department of Orthodontics	Prevalence, characterization, perception for treatment need and treatment outcome of Class III malocclusion in Kerala population.	Ongoing
2021	Dr. Anjana Ravindran	Department Of Prosthodontics	Genetic predisposition of residual ridge resorption	Ongoing
2022	Dr Arunima PR	Department of Periodontics	Osteogenicity evaluation of Electrospun Scaffold for Periodontal tissue regeneration -Invivo study	Ongoing
2022	Dr Arunima PR	Department of Periodontics	Invitro study of soya protein-based biomaterial for periodontal tissue regeneration	Ongoing
2022	Dr Adersh GA	Department of oral and maxillofacial surgery	Indigenized cost-effective bionic arm	Ongoing
2022	Dr Ambili.R	Department of periodontics	Development of a biodegradable chip for controlled drug delivery of curcumin in the management of gum disease	Ongoing
2022	Dr Ambili.R	Department of periodontics	Evaluation of salivary Lipoxin A4 in different periodontal conditions and efficacy of omega 3 fatty acid supplement as an adjunct to nonsurgical periodontal therapy in patients having periodontitis”	Ongoing
2022	Dr Reejamol MK	Department of periodontics	Comprehensive Evaluation of Programmed Cell Death in Periodontal Health and Disease	Ongoing
2022	Dr. Anna P Joseph	Department of Oral and Maxillofacial pathology	Association of periodontics with oral squamous cell carcinoma	Ongoing
2022	Dr Ambili.R	Department of periodontics	Transcriptomic profiling of genes associated with resolution of inflammation in healthy and diseased gingival tissues using next generation sequencing and validation of differentially expressed genes using real time PCR”	Ongoing

FACULTY RESEARCH PROJECTS

2022	Dr Adersh GA	Department of oral and maxillofacial surgery	Robotic exoskeletal support for arms affected with hemiparesis controlled by force sensors.	Ongoing
2022	Dr Mathew V	Department of Pedodontics and Preventive dentistry	Development and validation of a smart phone based dental health education tool for caretakers to curtail the incidence of early childhood caries and its sequelae among their preschool children	Ongoing
2022	Dr Aparna M Nair	Department of Periodontics	Effectiveness of Andrographis paniculate as an adjunct to nonsurgical periodontal therapy in patients having periodontitis-A randomised controlled clinical trial	Ongoing
2022	Dr Sunjith sudhakar	Oral pathology and microbiology	Quantitative analysis of civatte bodies in oral lichen planus	Ongoing
2022	Dr Lekshmy S R Nair	Department of Pedodontics and Preventive dentistry	Tonsil size, Mallampati score and cephalometrically assessed airway parameters as predictive factors for the development of Obstructive sleep apnea in children diagnosed with mouth breathing habit	Ongoing
2022	Dr Shaniya Sain	Department of Pedodontics and Preventive dentistry	Survival rate of Lesion Sterilization and tissue repair-3 yr follow up and its related outcome in preschool children	Ongoing
2022	Dr Adarsh Jayan	Department Of Conservative Dentistry and Endodontics	Antimicrobial Efficacy of Non-Thermal Atmospheric Plasma Activated Water As An Endodontic Irrigant In Comparison With Other Irrigants	Ongoing
2022	Dr Dilna	Department Of OMFS	Potential for osseous regeneration of dexamethasone loaded graphene quantum dots – A Split mouth study	Ongoing