CURRICULUM VITAE

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EDUCATION

Residency Training: Certificate in Periodontology, Department of Periodontology, 2001-2004, College of Dentistry, The Ohio State University, Columbus, Ohio, USA.

Graduate Training: M.S (Oral Biology) 2001-2004, Graduate School, The Ohio State University, Columbus, Ohio, USA.

Advanced Training:

Advanced surgical training in Implantology, NobelBiocare, Ad Modum Branemark. 1997 Surgical training in Implantology, NobelBiocare, Ad Modum Branemark. 1996 Prosthetic training course, NobelBiocare, Ad Modum Branemark. 1996

Graduate Training: M.D.S (Masters in Dental Surgery, Periodontology), 1988-1990, Gujarat University, India.

Professional Training: B.D.S (Bachelor in Dental Surgery) 1982-1987. Calcutta University, Calcutta, India.

HONORS/AWARDS

2023-24 Professional Development Award from Marquette University

2022 Provost Honor for contribution to research and teaching, Marquette University,

Dec 27.

- 2020 AAP Award for Outstanding Teaching and Mentoring in Periodontics, American Academy of Periodontology
- 2017 Achievement Award for Development of New Program for the successful development of Postgraduate Diploma in Implant Dentistry (group category)
- 2016 Certificate of Achievement in E-learning (Articulate 360 and Storyline 360, Interactive E-Learning Programs)
- 2010 AAP Award for Outstanding Teaching and Mentoring in Periodontics, American Academy of Periodontology
- 2010 Graduate Faculty Enrichment Award. UTHSC College of Dentistry, Memphis, TN
- 2009 Selected by the Faculty Election Committee to become a member of the Richard Doggett Dean and Marguerite Taylor Dean Honorary Odontological Society.
- 2008 Bowyer Clinical Sciences Faculty Enrichment Award. UTHSC, College of Dentistry, Memphis, TN
- 2006 AAP Award for Outstanding Teaching and Mentoring in Periodontics, American Academy of Periodontology
- 1987 Gunjur Gopaliah Memorial Award, Indian Dental Association, West Bengal.
- 1985 University examinations, Calcutta University, Third year B.D.S: Honors in General Surgery.
- 1983 University examinations, Calcutta University, First year B.D.S: Honors in Dental Anatomy.

BOARD CERTIFICATION

- 2018 -present The American Board of Periodontology, Diplomate in Periodontology and Dental Implant Surgery.
- 2006-2017 The American Board of Periodontology, Diplomate
- 2005-2006 American Board of Periodontology, Board Eligible.

LICENSURE

2018- present	Special permit, State of Wisconsin 18302-875
2015- 2018	Educational license, Malaysian Dental Council. License No. 00219/2015
2008-2014	Comprehensive conscious sedation permit, TN Board of Dentistry
2008-2016	Advanced Cardiac Life Support (ACLS) certified
2006-2014	Tennessee Board of Dentistry, Educational license No. DS08512
2004-2006	Ohio State Dental Board, limited teaching license. # 186
2001-2005	Advanced Cardiac Life Support
2001-present	Basic Life Support (American Heart Association)
2001-2004	Ohio State Dental Board, Residents License # 2047
1998-2001	Dental Board of Trinidad and Tobago, Teaching License.
1987-present	West Bengal Dental Association and Dental Council of India, Dental License # 1132 (part A, active)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2012	Southern Academy of Periodontology
2006-present	Diplomate, American Board of Periodontology
2005- present	American Dental Education Association.
2001-present	American Academy of Periodontology.
1990-present	Indian Society of Periodontology.
1990-1998	Indian Dental Association

UNIVERSITY (AND COLLEGE) APPOINTMENTS

Marquette University School of Dentistry, Milwaukee, Wisconsin

2021-present Clinical Professor Department of Surgical Sciences/ Periodontics

2018-2020 Associate Professor, Department of Surgical Sciences/Periodontics

2019-present Director, Pre-doctoral Periodontics,

International Medical University, Kuala Lumpur, Malaysia

2015-2018 Professor, School of Dentistry.

University of Tennessee Health Science Center College of Dentistry, Primary Appointment:

2010-2014	Program Director, Advanced Education Program in Periodontics.

- 2007-2010 Interim Advanced Education Program Director, Dept. of Periodontology.
- 2012-2014 Associate Professor, Dept. of Periodontology.
- 2006-2012 Assistant Professor, Dept of Periodontology.

University of Tennessee Health Science Center, Secondary Appointment:

- 2009-2014 Appointment to direct research, College of Graduate Health Sciences.
- 2006-2014 Graduate faculty, College of Graduate Health Sciences.

The Ohio State University, College of Dentistry:

- 2004-2006 Assistant Professor, Section of Periodontology.
- 2001-2004 Teaching Associate in Periodontology

Other Appointments:

- 1998-2001 Lecturer in Periodontology, School of Dentistry, Faculty of Medical Sciences, The University of the West Indies, Trinidad and Tobago.
- 1997-1998 Professor in Periodontology, Bapuji Dental College and Hospital, Davangere, Karnataka, India.
- 1997-1998 Graduate Faculty in Periodontology, Bapuji Dental College and Hospital, Davangere, Karnataka, India.
- 1993-1997 Associate Professor in Periodontology, Bapuji Dental College and Hospital, Davangere, Karnataka, India.
- 1990-1993 Reader in Periodontology, Bapuji Dental College and Hospital, Davangere, Karnataka, India.

PRACTICE/PROFESSIONAL EXPERIENCE

2015-2018	Consultant Periodontist, Intramural Practice, International Medical University, Malaysia
2006-2014	Periodontist, University Dental Practice, UTHSC College of Dentistry, Memphis, TN
2004-2006	Periodontist, Dental Faculty Practice, The Ohio State University, Columbus, Ohio.
1998-2001	Consultant Periodontist, Eric Williams Medical Sciences Center and Central Regional Health Authority, Mt. Hope, Republic of Trinidad and Tobago.
1996-1998	Consultant, Implantology and Tissue Integrated Prosthesis, Bapuji Dental College and Hospital, Davangere, India.

TEACHING EXPERIENCE

Marquette University School of Dentistry

- July1- September 2023 Interim Director Advanced Education in Periodontics
- Pre-Doctoral Program Director in Periodontics
- Director of the following courses:
 - 1. DESS 7234 Surgical sciences introductory clinical practicum D2/Summer
 - 2. DESS 7314 Surgical sciences clinical practicum 1 D3/ Fall
 - 3. DESS 7324 Surgical sciences clinical practicum 2 D3/ Spring
 - 4. DESS 7334 Surgical sciences clinical practicum 3 D3/ Summer
 - 5. DESS 7414 Senior clinical practicum in surgical sciences 1 D4/Fall
 - 6. DESS 7424 Senior clinical practicum in surgical sciences 2 D4/Spring
 - 7. DENT 6001 102 Didactic Core Curriculum 1 (Graduate photography Course)
 - 8. DESS 7419 Senior Honors Clinical Practicum in Periodontics
 - 9. PERI 6954-101 Current literature review seminar in Periodontics
- Lecturer in the following courses:
 - 1. DEIN 7020
 - 2. DEIN 7121
 - 3. DEIN 7221
 - 4. DESS 7210

- 5. DEGD 7110
- 6. DEGD 7212
- Lead instructor in DEIN 7114 Introduction to Clinical Practice 1

International Medical University, Kuala Lumpur, Malaysia

- Surgical module coordinator for Postgraduate Diploma in Implant Dentistry.
- Clinical teaching: 3rd, 4th and 5th year dental students.
- Didactic teaching: 2nd and 3rd year dental students.
- Didactic and laboratory teaching: Implant Workshop, 4th year dental students.
- Supervision of dental students in outreach programs
- Coordinator, Mentor-Mentee Committee
- Development of Post Graduate curriculum in Periodontics

College of Dentistry, University of Tennessee Health Sciences Center

- Periodontology 203, Clinical Periodontics:
 Director of Clerkship: 6 clerkship sessions of 3-hour duration each
 Instructor and Co-Director: Pre-clinical course on periodontal instruments and instrumentation
- Pathobiology (Peri 103): Instructor
- Introduction to Periodontal Pathobiology (PERI 621 DG): Instructor
- Current Literature review (PERI 643/644 DG, 743/744 DG, 843/844 DG) Course Director and Instructor
- Periodontics-Orthodontics Seminars (DSCI 717): Course Director and instructor
- Topical Literature review PERI 623/723 DG: Instructor
- Implantology (PERI 636/736/836 DG), Implantology Seminars and Literature Review: Course Director and Instructor.
- Dental Hygiene Course DH 554 Advanced Clinical Periodontics: Instructor
- Clinical Instructor in Periodontology for D3 and D4 students
- PERI 626DG, 726DG, 826DG- Director, Clinical Periodontics (Graduate Course)
- PERI 625DG, 725DG, 825DG- Director, Case Presentation Seminar (Graduate Course). Includes preparation of cases to conduct Mock Boards in the ABP format for year 2 and 3 residents.

College of Dentistry, The Ohio State University

- Dent 796.03: Graduate Residents in Periodontology, Periodontal Literature Review Seminars. Instructor.
- Dent 776: DDS year 4 Clinical Competency Examination in Periodontics. Course director.
- Dent 790.60: Course director, Periodontal Surgical Elective, DDS year 4
- Dent 415: Epidemiology of Periodontal Diseases, DDS year 1
- Clinical Supervision and Instruction, year 2, year 3 and year 4 DDS students.

School of Dentistry, Faculty of Medical Sciences, The University of The West Indies, Trinidad

Year 3 and 4 dental students (Integrated Restorative Dentistry Curriculum)

- Periodontal tissues
- Etiology of periodontal diseases
- Periodontal pathology
- Classification and description of periodontal diseases
- Diagnosis prognosis and treatment planning
- Periodontal instrumentation
- Surgical periodontal treatment
- Antimicrobial and chemotherapeutic agents
- Prevention of periodontal diseases
- Clinical supervision and instruction, year 2, year 3 and year 4 DDS students.

Bapuji Dental College and Hospital, Davangere, India

Course director: Seminars, Graduate Program in Periodontology.

Year 3 and year 4 dental students: Course Instructor

- Tissues of the periodontium
- Epidemiology of Periodontal diseases
- Periodontal microbiology
- Immunology of periodontal diseases
- Systemic diseases and the Periodontium
- Periodontal diseases
- Resective osseous surgery
- Osseous grafting
- Guided tissue regeneration
- Mucogingival surgery

- Treatment of furcation involved teeth
- Non-surgical treatment of periodontal diseases

Year 2 dental students, Pre-clinical course instructor

- Periodontal instruments
- Principles of instrumentation
- Mannequin exercises
- Instrument sharpening

Dental hygiene program courses, Course Instructor

- Periodontal tissues
- Etiology of periodontal diseases
- Diseases of the periodontium
- Diagnosis of periodontal diseases
- Periodontal instrumentation
- Non-surgical treatment of periodontal diseases

Clinical Instruction and Supervision, Graduate students in Periodontology, year 3 and year 4 dental students and dental hygiene students.

INVITED LECTURES and ORAL PRESENTATIONS

- 1. "2017 AAP Classification". Invited lecture at 2019 Wisconsin Dental Hygienists' Association Annual INDIGO meeting, 4-5 October, 2019.
- 2. "Esthetics in implant dentistry and periodontics". Invited lecture at the University of Washington. Nov1, 2018.
- 3. "The dilemma of missing teeth-Exploring the world of dental implants". Invited lecture for the 10th Anniversary celebration of The International Medical University. October 11, 2017.
- "Relationship between Diabetes and Periodontal Disease." Periodontal Forum on systemic disease and the periodontium. International Medical University. 26th May, 2017
- 5. "Assessment Using CBCT." International Medical University November 6, 2016
- 6. "Soft tissue and hard tissue management." Presented at the Malaysian Association of Aesthetic dentistry. 23rd October, 2016

- 7. "Periodontal treatment in a medley of interesting cases." King Khalid University First Dental Conference, Saudi Arabia. Invited guest speaker. November 12, 2015.
- 8. "Updating and sharing of knowledge in dentistry." International Medical University. November 4, 2015
- 9. "Periodontology: New Developments". International Medical University, Dental Alumni Association. October 30, 2015.
- 10. "Innovations in Non-Surgical Periodontal Therapy" 27th Annual Dental Hygiene update, July 30, 2010. Memphis, TN.
- 11. "Collaborative Periodontics and Prosthodontics Treatment Planning for the 21st Century". 86th Annual Session of ADEA, March 15, 2009, Phoenix, AZ
- 12. "Update on Post Doctoral Periodontology Program at UTHSC College of Dentistry". TN Society of Periodontists. Tennessee Dental Association's 60th Annual Dental Health Workshop, January 19, 2008, Cool Springs, TN.
- 13. "Maxillary Anterior Single Unit Implants: Surgical Treatment Planning". November 11, 2005, University of Tennessee Health Science Center College of Dentistry.
- 14. "Smoking and Dental Implant Success", College of Dentistry 61st Post college assembly, May 5, 2005, Columbus, Ohio.
- 15. "Gingival and Periodontal Diseases". Invited speaker, Procter and Gamble, March 3, 2005, Cincinnati, Ohio..
- 16. "Growth Factors and Cytokines Enhance Fluoroquinolone Accumulation by Gingival Fibroblasts". 82nd General Session and Exhibition of the International, American and Canadian Associations for Dental Research. March 10-13, 2004. Honolulu, Hawaii.
- 17. "Smoking and Dental Implant Success". Invited lecture, School of Dentistry, Marquette University, September 15, 2003, Milwaukee, Wisconsin.
- 18. "Diabetes and Periodontal Disease". Community presentation, Central Ohio Diabetic Association. June 24, 2003, Columbus, OH.
- 19. "Effect of Cytokines and Growth Factors on Ciprofloxacin Accumulation by Gingival Fibroblasts". 32nd Annual meeting and Exhibition of the American Association for Dental Research, March 12-15, 2003, San Antonio, Texas.

20. "Treatment of Edentulism Ad Modum Branemark". Keynote address, Silver Jubilee Convention, Indian Dental Association, Surat branch, 5th and 6th July, 1997, Daman, Goa, INDIA.

POSTER PRESENTATIONS

- 1. Moll J, **Rawal SY**, Wirtz T, Talley J. Guentsch A. Digital Grading in the Simulation Laboratory in the Marquette University School of Dentistry. November 20 and 21 at The Marquette participating faculty Symposium.
- 2. **Rawal SY**, Talley J, Guentsch A. Calibration of faculty, and graduate periodontics residents for teaching ergonomics and patient operator positioning to year 1 predoctoral dental students in the dental simulation laboratory. November 20 and 21 at The Marquette participating faculty Symposium.
- 3. Rawal SY, Talley J, Guentsch A. Calibration of faculty, and graduate periodontics residents for teaching ergonomics and patient operator positioning to year 1 predoctoral dental students in the dental simulation laboratory. Presented at the 2023 American Academy of Periodontology Annual meeting, Austin, TX
- 4. Rawal SY, Guentsch A. An online evaluation of D3 and D4 students' knowledge of the AAP 2017 Classification of Periodontitis. Presented at the 2020 American Academy of Periodontology Annual Meeting.
- 5. Rawal SY, Kofina V, Guentsch A. A proposal for an honors course for predoctoral students. MUSOD Research Day, March 4, 2020
- Rawal SY, Parolia A, Mathew T. "Multi-disciplinary approach in management of borderline class III case with generalized spacing and dilacerated central incisor". 2019 AAP meeting, Nov 2, Chicago.
- 7. Rawal SY, S Khoo, Lim X. "An unusual manifestation of necrotizing periodontal disease". 2019 AAP meeting, Nov 2, Chicago.
- 8. Rawal SY, Sultan OS, Fabian A. "Lack of correlation between IL-1β levels in periapical tissue fluid, gingival crevicular fluid and serum: A pilot study. 2019 AAP meeting. Nov 2, Chicago.
- 9. Karydis A, Tipton DA, Shiloah, J, **SY Rawal**, Garcia-Godoy F. Pluripotent Osteogenic Periodontal Ligament Cells in Periodontal Health and Disease. IADR/AADR/CADR General Session and Exhibition, 2013.
- 10. Karydis A, **Rawal SY**, Scarbecz M, Bland P. Assessment of the Graduate clinic's dental care from the patient's perspective. 87th ADEA Annual Session, 2010.

- 11. Shelton WW, Benton BK, Wicks RA, **Rawal SY**, Bland PS, Correction of a Midline Diastema Using Crown Lengthening and All Ceramic Crowns. Student Research Day and Table Clinics, UTHSC College of Dentistry, 2009.
- 12. **Rawal SY**, Tipton DA. Fibrogenic Effects of Cannabidiol on Human Gingival Fibroblasts. AADR Annual meeting, 2008.
- 13. **Rawal SY**, Kalmar JR, Tatakis DN. Immunohistochemical Characterization of Verruciform Xanthoma Lesions. AADR and ADEA Annual Meeting, 2006.
- 14. **Rawal SY**, Claman LJ, Tatakis DN, Messick D, Mariotti A. Objective Structured Clinical Exam to Assess Competency in Periodontal Examination. AADR and ADEA Annual Meeting, 2006.
- 15. **Rawal SY**, Claman L, Alger F, Palermo-Edwards L, Halket C, Tatakis DN, Solt CA A periodontal surgical elective for dental students: A didactic, hands on, and clinical approach. 82nd Annual Session and Exhibition of the American Dental Education Association, Baltimore, 2005.

COMMITTEES AND OFFICES HELD:

Marquette University School of Dentistry

- 2022-present Academic Progress Committee
- 2021- Chair, Dental Hygiene faculty search committee
- 2019- present Clinical affairs Committee
- 2019 Member Periodontics faculty search committee

International Medical University

- 2015-present IMU Cares project, Member
- 2017 Smoking Cessation committee, Member.
- 2017 Mentor-Mentee committee, Coordinator.
- 2017 IMU 10th Anniversary Book, member editorial committee

National level

2023	Nominated as an alternate candidate for a position on the Nominating Committee for the American Board of Periodontology.
2011	Member, American Academy of Periodontology In-Service Test Construction Committee, Subcommittee to review the In-Service Drug References and Acronyms.
2010-2016	Member, American Academy of Periodontology, In-Service Test Construction committee.
2009	Coordinator for ADEA Section on Periodontology Sub-Committee of the ADEA Competencies and Foundation Knowledge Project.
2009 Construction (JCNDE).	Alternate Test Constructor on National Board Periodontics Test Committee for 2010. Joint Commission on National Dental Examinations
2009-2010	Chair, American Dental Education Association, Section on Periodontics.
2008-2009	Chair-elect, American Dental Education Association, Section on Periodontics.
2007-2008	Secretary, American Dental Education Association Section on Periodontics.
University of Tennessee Health Sciences Center (UTHSC):	
2006 2010	Library Advisory Committee

Library Advisory Committee. 2006-2010

College of Dentistry, UTHSC:

2011	Chair, Search Committee, Position of Chair, Dept. of Biological and Diagnostic Science.
2011-2014	Chair, Strategic planning subcommittee on Clinical Instruction, Clinical Services
2011-2014	Promotion and Tenure Committee.
2011-2014	Dental Research Committee.
2011	Search Committee, Faculty position, Dept. of Periodontology.
2011	Search Committee, Chair, Dept. of Endodontics.
2010- 2014	Quality Assurance Committee.

2010- 2014 Search Committee, Chair, Department of Orthodontics.

2009 Search Committee for Executive Associate Dean.

2007-2014 Advanced Dental Education Committee.

2007-2014 Strategic Planning Committee.

2007 Ad Hoc Appeals Committee.

2006-2010 Summer Research Fellowships award subcommittee.

2006-2009 Research committee.

2006-2014 Instruments and materials subcommittee.

College of Dentistry, The Ohio State University:

2005-2006 Admissions Committee.

2004-2007 Student table clinic committee.

School of Dentistry, The University of the West Indies:

1998-2001 Curriculum planning and implementation committee.

Bapuji Dental College and Hospital:

1994-1998 Curriculum planning and implementation, Dental Hygiene program.

OTHER PROFESSIONAL AFFILIATIONS AND ACTIVITIES

2017-present Appointment, Examiner, Diploma in Implant Dentistry, Faculty of Dentistry, The Royal College of Surgeons of Edinburgh, Scotland.

Reviewer of terms for the Glossary of Periodontal terms published by the

American Academy of Periodontology

Judge, Student Research Day and Table Clinics. Feb, 2012.

2011 Peer reviewer, 2012 ADEA Annual Session & Exhibition program

submissions.

Judge, Student Research Day and Table Clinics. Feb, 2011.

2009	Peer reviewer, 2010 ADEA Annual session program submissions.
2009	Co-Chair, Joint Periodontics and Prosthodontics Section Program, 86 th ADEA Annual Meeting, Phoenix, AZ, "Collaborative Periodontics and Prosthodontics Treatment Planning for the 21 st Century".
2009	Judge, Memphis-Shelby County Science Fair, Pipkin Building, 940 Early Maxwell Blvd, Memphis TN , Feb 24, 2009
2009	Judge, Student Research Day and Table Clinics. Feb 17, 2009.
2008	Contributor, AAP In-Service Examination questions for 2009
2008	Development and implementation of a Post Doctoral Internship program in Periodontology for international dentists in conjunction with the Department of Continuing Dental Education
2008	Reviewer, 2009 ADEA Annual Session Poster Submissions
2008	Judge, Hinman Student Research Symposium
2008	Development and distribution of Newsletter of ADEA Section on Periodontics
2008	Judge, UTHSC college of Dentistry Research Day
2007	Judge, Hinman Student Research Symposium
2003	Diabetes and Periodontal disease. Lecture presented to Central Ohio Diabetes Association
2002	Examiner, Mock NERBs, Dental Hygiene program, Portsmouth, Ohio, USA.
2001-2003	Co-Editor and Editor: "THE CUTTING EDGE". The Buckeye Periodontal Alumni Newsletter.
1998-2001	Examiner, Predoctoral dental students. The University of the West Indies, Trinidad and Tobago
1996-1998	Assistant Warden: Hemavathi Ladies Hostel (Dormitories), Bapuji Dental College and Hospital, India
1996-1998	Examiner, graduate students, Kuvempu University, India.

1995-1996 Member, Organizing committee, Karnataka State Annual Dental Conference, Davangere, India.

1991-1998 Examiner, Pre doctoral students of dentistry at the following universities:

Mysore university, Bangalore university, Kuvempu university, Gulbarga
university and Manipal Academy of Higher Education, Manipal, India and
The University of the West Indies, St. Augustine, Trinidad, West Indies.

1991-1998 Panel of undergraduate as well as postgraduate examiners, Rajiv Gandhi University of Health Sciences and Kuvempu University, Karnataka state, India.

Reviewer for following journals:

- 1. The Open Dentistry Journal- Editorial Board member
- 2. Pediatric dentistry
- 3. Clinical and Experimental Dermatology
- 4. Indian Journal of Dental Research
- 5. Clinical Epidemiology
- 6. BMC oral health

THESIS COMMITTEE (College of Graduate Health Sciences, University of Tennessee Health Science Center)

Dr. Owais Farooqi – Periodontology Resident

Topic: Effect of methamphetamine on gingival fibroblast production of matrix metalloproteinase (MMP)-2 and -9 and tissue inhibitor of matrix metalloproteinases (TIMP)-1 and -2.

Dr. Ivelina Jurkowski-Periodontology Resident

Topic: Statins regulate IL-1β induced RANKL and OPG production by gingival fibroblasts

Dr. William Wes Shelton-Periodontology Resident

Topic: Peripheral Taste System in Inbred Mouse Strains

Dr. Norman Fine- Periodontology Resident

Topic: Binding of Human Epithelial Cell Defensin Peptide HBD-3 to Lypopolysaccharide of Periodontal Pathogens

FACULTY MENTOR FOR UNDERGRADUATE RESEARCH STUDENTS

Ooi Poh Yee and Tee Yin Suan Year 4: Quantification of IL1-β in apical region of teeth, serum and gingival crevicular fluid among apical periodontitis patients. Project ID No.BDS 101/14 (04) 2017. Principal investigator, Dr. Swati Y. Rawal

Yii Su Ee, Sharlene Ong Leh Hui, Year 4: Oral cavity disorders in Parkinson's disease with emphasis on relationship between periodontitis and Parkinson's disease. 2016 Special Study Module. Principal Investigator, Dr. Swati Y. Rawal

Jenny Fong Yi Ming, Tay Siew Pong, Benjamin Lim Syek Hur Year 4: Comparison of salivary resistin, interleukin-6 and periodontal status among diabetic, obese and normal patients. 2016 Special Study Module. Principal Investigator, Dr. Swati Y. Rawal

Nia T. Zacharia D2 student: "Anti-inflammatory Effects of Cranberry Components on Human Gingival Epithelial Cells" 2010 Summer Research Program

Nina Ferrell D2 student: "Effect of Cannabidiol on Human Gingival Fibroblast Matrix Metalloproteinase Production and Activity". 2009 Summer Student Research Program.

FACULTY MENTOR FOR POSTGRADUATE STUDENTS

- 1. MUSOD Periodontal Graduate Resident, Dr. Christos Gousias.
- 2. MUSOD Periodontal Graduate Resident, Dr. Zainab Alsuwaiyan, "Evaluating the effectiveness of hand function intervention with dental students".2023- present
- **3.** MUSOD Periodontal Graduate Resident, Dr. Juan Rincon Valencia "Early Postoperative Patient-Reported Outcomes Following Implant Placement" 2020-2023.
- 4. MUSOD Periodontal Graduate Resident, Dr. M Monfaredzadeh "Healing after ridge preservation in extraction sockets" 2019-2022
- 5. MUSOD Periodontal Graduate Resident Keerthi Kamreddy. Master's thesis "Comparison of Power vs Manual toothbrush in reducing gingivitis" 2018-2019.
- 6. Dr. Meenakshi Thiagrajan, MPH student." Relationship between, periodontal status, diabetes mellitus and obesity in a Malaysian population." Co- research mentor.

7. Dr. Spoorthi Banaver, PhD student. "The effects of lipopolysaccharide-induced local inflammation and hyperglycaemic states on mesenchymal stem cells of the periodontal tissues." Co- research mentor.

1. FACULTY MENTOR FOR JUNIOR FACULTY

Dr. Rohit Pandurangappa, BDS, MDS (Prosthodontics)

Dr. Ranjeet Bapat, BDS, MDS, (Periodontics)

RESEARCH

- Evaluating the effectiveness of hand function intervention with dental students. Swati Y Rawal (Principal investigator), Ann Millard, Michele Sheehan, Janice Moll, Brian, Zamzow, Zainab Alsuwaiyan Jennifer Talley, Arndt Guentsch, Protocol No.HR 4453.
- 2. Early Postoperative Patient-Reported Outcomes Following Implant Placement. Kofina V (Principal investigator), Valencia RJ, **Rawal SY**. Protocol no. HR-3564 Marquette University.
- 3. Papillary changes following extraction in the esthetic zone. Kofina V (Principal investigator), Monfaredzadeh M, **Rawal SY**. Protocol no. HR-3467, Marquette University.
- 4. The effects of lipopolysaccharide-induced local inflammation and hyperglycaemic states on mesenchymal stem cells of the periodontal tissues. Khoo SP (Principal Investigator), **Rawal SY**, Tan EL, Paterson IC, Singh G, Jacob PS, Ahsan MS, Kurihara H, Kaiya M. Fundamental Research Grant Scheme (FRGS), Ministry of higher Education, Malaysia.) Grant ID159505, IMU. FRGS/1/2016/SKK14/IMU/01/1 188,500 RM.
- 5. "Distribution and osteogenic potential of mesenchymal stem-like periodontal ligament cells in periodontal health and disease". Karydis A, Shiloah J, Tipton DA, Rawal SY, Rawal YB. University of Tennessee College of Dentistry Alumni Endowment Fund.
- **6.** "Effect of Cannabidiol on Human Gingival Fibroblast Matrix Metalloproteinase Production and Activity". Ferrell N, **Rawal SY**, Tipton DT. 2009 Summer Student Research Grant.
- 7. "Effect of cannabidiol on production of transforming growth factor-β, collagen, and fibronectin by human gingival fibroblasts". **Rawal SY** (Principal Investigator),

- Tipton DA. Alumni Clinical Research Grant (Category I) from the University of Tennessee College of Dentistry Alumni Endowment Fund.
- 8. "Verruciform xanthoma-An immunohistochemical and in-situ hybridization study". **Rawal SY (P.I)**, Tatakis DN, Kalmar JR. The Ohio State University. IRB # 2004H0213.
- 9. Effect of cytokines and growth factors on ciprofloxacin accumulation by human gingival fibroblasts. **Rawal SY**, Walters JD. Research for MS Thesis. Supported by a United States Public Health Service (USPHS) research grant DE12601 from the National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD.
- 10. "Oral Candidosis in denture wearers and assessment of denture hygiene awareness among outpatients attending school of dentistry, polyclinic, Trinidad and Tobago". Rawal YB, **Rawal SY**, Nandy A. The University of the West Indies, St. Augustine campus. Grant number CRP. 5AG 1999/2000. T.T \$ 24,000.

BOOKS AND BOOK CHAPTERS

SY Rawal, YB Rawal. Autoimmune Oral Disease. In: Textbook of Oral Medicine. Jaypee Brothers Medical Publishers (P) Ltd., New Delhi.

PEER-REVIEWED PUBLICATIONS

- 1. Kofina V, Monfaredzadeh M, **Rawal SY**, Dentino AR, Singh M, Tatakis DN. Patient-reported outcomes following guided bone regeneration: Correlation with clinical parameters. J Dent. 2023 Jul 6;136:104605. doi: 10.1016/j.jdent.2023.104605. Epub ahead of print. PMID: 37419383.
- **2. Rawal SY**, Lim X, et al., 2022. An Atypical Case of Necrotizing Periodontal Disease: A Case Report, Medical Research Archives, [online] 10(12). https://doi.org/10.18103/mra. v10i12.3468
- 3. Bapat RA, Yang HJ, Chaubal TV, Dharmadhikari S, Abdulla AM, Arora S, **Rawal S**, Kesharwani P. Review on synthesis, properties and multifarious therapeutic applications of nanostructured zirconia in dentistry. RSC Adv. 2022 Apr 27;12(20):12773-12793. doi: 10.1039/d2ra00006g.
- **4.** Banavar, S.R.; **Rawal, S.Y**.; Pulikkotil, S.J.; Daood, U.; Paterson, I.C.; Davamani, F.A.; Kajiya, M.; Kurihara, H.; Khoo, S.P.; Tan, E.L. 3D Clumps/Extracellular Matrix Complexes of Periodontal Ligament Stem Cells

- Ameliorate the Attenuating Effects of LPS on Proliferation and Osteogenic Potential. J. Pers. Med. 2021, 11, 528. https://doi.org/10.3390/jpm11060528.
- 5. Kofina V, An H, **Rawal SY**. Iatrogenic acid-induced gingival recession during crown cementation: A case report. Aust Dent J. 2021 Jan 12. doi: 10.1111/adj.12820. Epub ahead of print. PMID: 33438220.
- **6.** Dodge A, Kreh K, Kofina V, **Rawal SY**. Sublingual emphysema following alveoloplasty: A case report. Clin Case Rep. 2020; 00:1–4.
- 7. **Rawal SY**, Guentsch A. Clinical case-based problem-solving examination in periodontics. J Dent Educ. 2020;1–3.
- 8. **Rawal SY**, Hilal G. Osteonecrosis and spontaneous exfoliation of dental implants associated with oral bisphosphonate therapy: a case report. *Aust Dent J*. 2020;65(1):100-103. doi:10.1111/adj.12738
- 9. Banavar SR, **Rawal, SY**, Paterson IC, et al. Establishing a technique for isolation and characterization of human periodontal ligament derived mesenchymal stem cells. The Saudi Dental Journal In press, corrected proof available online 19 April 2020. https://doi.org/10.1016/j.sdentj.2020.04.007
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