

# Research Publications



2019

## Administration

**Bereiter DA**, Thompson R, **Rahman MM**. 2019. Sex differences in estradiol secretion by trigeminal brainstem neurons. *Frontiers in Integrative Neuroscience*. 13. <https://doi.org/10.3389/fnint.2019.00003>

**Johnson SN**, **Mays KA**. 2019. A Retrospective Analysis of a Cross-Year Peer Tutoring Program for Oral Health Students. *Journal of dental education*. 83(2):137-143. <https://doi.org/10.21815/JDE.019.016>

**Mays KA**, Scheffert DR, Maguire M, Lunos S, Johnson R, Jackson L, **Riggs S**. 2019. Dental Students' Intent to Practice in Rural Communities Before and After Community-Based Rotations in a Rural Area. *Journal of dental education*. 83(11):1296-1303. <https://doi.org/10.21815/JDE.019.142>

Okada S, Katagiri A, Saito H, Lee J, Ohara K, Iinuma T, **Bereiter DA**, Iwata K. 2019. Differential activation of ascending noxious pathways associated with trigeminal nerve injury. *Pain*. 160(6):1342-1360. <https://doi.org/10.1097/j.pain.0000000000001521>

Smith PD, **Mays KA**. 2019. Dental Students' Non-Clinical Learning During Community-Based Experiences: A Survey of U.S. Dental Schools. *Journal of dental education*. 83(11):1289-1295. <https://doi.org/10.21815/JDE.019.130>

## Developmental and Surgical Sciences

Alassy H, Parachuru P, **Wolff L**. 2019. Peri-implantitis diagnosis and prognosis using biomarkers in peri-implant crevicular fluid: A narrative review. *Diagnostics*. 9(4). <https://doi.org/10.3390/diagnostics9040214>

**Bittner-Eddy PD**, **Fischer LA**, **Costalonga M**. 2019. Cre-loxP Reporter Mouse Reveals Stochastic Activity of the Foxp3 Promoter. *Frontiers in immunology*. 10. <https://doi.org/10.3389/fimmu.2019.02228>

Chatzopoulos G, Sanchez M, Cisneros A, **Wolff LF**. 2019. Prevalence of temporomandibular symptoms and parafunctional habits in a university dental clinic and association with gender, age, and missing teeth. *Cranio - Journal of Craniomandibular Practice*. 37(3):159-167. <https://doi.org/10.1080/08869634.2017.1399649>

Chatzopoulos GS, **Mansky KC**, Lunos S, **Costalonga M**, **Wolff LF**. 2019. Sclerostin and WNT-5a gingival protein levels in chronic periodontitis and health. *Journal of Periodontal Research*. 54(5):555-565. <https://doi.org/10.1111/jre.12659>

Faulkner B, **Astleford K**, **Mansky K**. 2019. Regulation of osteoclast differentiation and skeletal maintenance by histone deacetylases. *Molecules*. 24(7). <https://doi.org/10.3390/molecules24071355>

**Fischer LA**, Demerath E, **Bittner-Eddy P**, **Costalonga M**. 2019. Placental colonization with periodontal pathogens: the potential missing link. *American journal of obstetrics and gynecology*. 221(5):383-392.e3. <https://doi.org/10.1016/j.ajog.2019.04.029>

**Fischer LA**, **Bittner-Eddy PD**, **Costalonga M**. 2019. Fetal weight outcomes in C57BL/6J and C57BL/6N-Crl mice after oral colonization with porphyromonas gingivalis. *Infection and immunity*. 87(10). <https://doi.org/10.1128/IAI.00280-19>

**Grünheid T**, **Larson BE**. 2019. A comparative assessment of bracket survival and adhesive removal time using flash-free or conventional adhesive for orthodontic bracket bonding: A split-mouth randomized controlled clinical trial. *Angle Orthodontist*. 89(2):299-305. <https://doi.org/10.2319/030918-195.1>

**Huntley R**, **Jensen ED**, **Gopalakrishnan R**, **Mansky K**. 2019. Bone morphogenetic proteins: Their role in regulating osteoclast differentiation. *Bone Reports*. 10. <https://doi.org/10.1016/j.bonr.2019.100207>

**Skaar DD**, Park T, Swiontkowski MF, Kuntz KM. 2019. Is Antibiotic Prophylaxis Cost-effective for Dental Patients Following Total Knee Arthroplasty?. *JDR Clinical and Translational Research*. 4(1):9-18. <https://doi.org/10.1177/2380084418808724>

Thumbigere-Math V, Foster BL, Bachu M, Yoshii H, Brooks SR, Coulter A, Chavez MB, Togi S, Neely AL, Deng Z, **Mansky KC**, Ozato K, Somerman MJ. 2019. Inactivating Mutation in IRF8 Promotes Osteoclast Transcriptional Programs and Increases Susceptibility to Tooth Root Resorption. *Journal of Bone and Mineral Research*. 34(6):1155-1168. <https://doi.org/10.1002/jbmr.3690>

Tompach PC, Wagner CL, Sunstrum AB, **Nadeau RA**, Tu HK. 2019. Investigation of an Opioid Prescribing Protocol After Third Molar Extraction Procedures. *Journal of Oral and Maxillofacial Surgery*. 77(4):705-714. <https://doi.org/10.1016/j.joms.2018.12.007>

## Diagnostic and Biological Sciences

Argyris PP, Ho D, Nelson AC, **Koutlas IG**. 2019. Pale (Clear) Cell Acanthoma of the Palate. *Head and Neck Pathology*. <https://doi.org/10.1007/s12105-019-01050-0>

Argyris PP, **Slama Z**, Malz C, Koutlas IG, Pakzad B, Patel K, Kademani D, Khammanivong A, **Herzberg MC**. 2019. Intracellular calprotectin (S100A8/A9) controls epithelial differentiation and caspase-mediated cleavage of EGFR in head and neck squamous cell carcinoma. *Oral Oncology*. 95:1-10. <https://doi.org/10.1016/j.oraloncology.2019.05.027>

Argyris PP, **Slama ZM**, Nelson AC, **Koutlas IG**. 2019. Solitary oral epidermolytic acanthoma: Case report of a rarely diagnosed entity. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*. 128(6):e208-e213. <https://doi.org/10.1016/j.oooo.2019.03.016>

Babiloni AH, **Nixdorf DR**, **Moana-Filho EJ**. 2019. Persistent dentoalveolar pain disorder: A putative intraoral chronic overlapping pain condition. *Oral Diseases*. <https://doi.org/10.1111/odi.13248>

**Bereiter DA**, Thompson R, **Rahman MM**. 2019. Sex differences in estradiol secretion by trigeminal brainstem neurons. *Frontiers in Integrative Neuroscience*. 13. <https://doi.org/10.3389/fnint.2019>

Cai R, Price IR, Ding F, Wu F, Chen T, Zhang Y, Liu G, **Jardine PJ**, Lu C, Ke A. 2019. ATP/ADP modulates gp16-pRNA conformational change in the Phi29 DNA packaging motor. *Nucleic acids research*. 47(18):9818-9828. <https://doi.org/10.1093/nar/gkz692>

Cataldo G, Erb SJ, Lunzer MM, Luong N, Akgün E, Portoghese PS, **Olson JK, Simone DA**. 2019. The bivalent ligand MCC22 potently attenuates hyperalgesia in a mouse model of cisplatin-evoked neuropathic pain without tolerance or reward. *Neuropharmacology*. 158. <https://doi.org/10.1016/j.neuropharm.2019.04.004>

Durham J, Stone SJ, Robinson LJ, Ohrbach R, **Nixdorf DR**. 2019. Development and preliminary evaluation of a new screening instrument for atypical odontalgia and persistent dentoalveolar pain disorder. *International Endodontic Journal*. 52(3):279-287. <https://doi.org/10.1111/iej.13017>

Easterly CW, Sajulga R, Mehta S, Johnson J, Kumar P, Hubler S, Mesuere B, **Rudney J**, Griffin TJ, Jagtap PD. 2019. MetaQuantome: An integrated, quantitative metaproteomics approach reveals connections between taxonomy and protein function in complex microbiomes. *Molecular and Cellular Proteomics*. 18(8):S82-S91. <https://doi.org/10.1074/mcp.RA118.001240>

**Flynn PM, John MT**, Sistani MMN. 2019. Confirmation of the unidimensional structure of the Oral Health Literacy Adults Questionnaire. *International dental journal*. 69(3):207-213. <https://doi.org/10.1111/idj.12451>

Giannobile WV, Dawes C, Feine J, **Herzberg MC**, Smith AJ. 2019. The Journal of Dental Research: A Century of Shaping the Dental, Oral, and Craniofacial Sciences. *Journal of dental research*. 98(1):5-6. <https://doi.org/10.1177/0022034518817720>

**Gorr SU**, Flory CM, Schumacher RJ. 2019. In vivo activity and low toxicity of the second-generation antimicrobial peptide DGL13K. *PloS one*. 14(5). <https://doi.org/10.1371/journal.pone.0216669>

Hall JW, **Lima BP**, Herbomel GG, Gopinath T, McDonald LA, Shyne MT, Lee JK, Kreth J, **Ross KF**, Veglia G, **Herzberg MC**. 2019. An intramembrane sensory circuit monitors sortase A-mediated processing of streptococcal adhesins. *Science signaling*. 12(580). <https://doi.org/10.1126/scisignal.eaas9941>

**Huntley R, Jensen ED, Gopalakrishnan R, Mansky K**. 2019. Bone morphogenetic proteins: Their role in regulating osteoclast differentiation. *Bone Reports*. 10. <https://doi.org/10.1016/j.bonr.2019.100207>

**Jardine PJ**. 2019. Slow and steady wins the race: physical limits on the rate of viral DNA packaging. *Current Opinion in Virology*. 36:32-37. <https://doi.org/10.1016/j.coviro.2019.03.002>

**Jardine PJ**. 2019. May the Road Rise to Meet You: DNA Deformation May Drive DNA Translocation. *Biophysical journal*. 116(11):2060-2061. <https://doi.org/10.1016/j.bpj.2019.04.027>

**Khasabova IA, Khasabov SG, Olson JK**, Uhelski ML, Kim AH, Albino-Ramírez AM, Wagner CL, Seybold VS, Simone DA. 2019. Pioglitazone, a PPAR agonist, reduces cisplatin-evoked neuropathic pain by protecting against oxidative stress. *Pain*. 160(3):688-701. <https://doi.org/10.1097/j.pain.0000000000001448>

**Khasabova I**, Uhelski M, **Khasabov S**, Gupta K, Seybold VS, **Simone DA**. 2019. Sensitization of nociceptors by prostaglandin E2-glycerol contributes to hyperalgesia in mice with sickle cell disease. *Blood*. 133(18):1989-1998. <https://doi.org/10.1182/blood-2018-11-884346>

**Koutlas IG**, Dolan M, Lingen MW, Argyris PP. 2019. Plasmacytoid cells in salivary pleomorphic adenoma: an alternative interpretation of their immunohistochemical characteristics highlights function and capability for epithelial-mesenchymal transition. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*. 128(5):515-529. <https://doi.org/10.1016/j.oooo.2019.01.081>

**Lima B**, Hu LI, Vreeman GW, Weibel DB, Lux R. 2019. The Oral Bacterium *Fusobacterium nucleatum* Binds *Staphylococcus aureus* and Alters Expression of the Staphylococcal Accessory Regulator *sarA*. *Microbial ecology*. 78(2):336-347. <https://doi.org/10.1007/s00248-018-1291-0>

**Lima BP**, Kho K, Nairn BL, Svensäter G, Chen R, Steffes A, Vreeman GW, Meredith TC, **Herzberg MC**. 2019. *Streptococcus gordonii* Type I lipoteichoic acid contributes to surface protein biogenesis. *mSphere*. 4(6). <https://doi.org/10.1128/mSphere.00814-19>

McDaniel YZ, Patterson S, **Mansky LM**. 2019. Distinct dual antiviral mechanism that enhances hepatitis B virus mutagenesis and reduces viral DNA synthesis. *Antiviral Research*. 170. <https://doi.org/10.1016/j.antiviral.2019.104540>

Mittal H, **John MT**, Sekulić S, Theis-Mahon N, Renner-Sitar K. 2019. Patient-Reported Outcome Measures for Adult Dental Patients: A Systematic Review. *Journal of Evidence-Based Dental Practice*. 19(1):53-70. <https://doi.org/10.1016/j.jebdp.2018.10.005>

**Moana Filho EJ**, Herrero Babiloni A. 2019. Endogenous pain modulation in chronic temporomandibular disorders: Derivation of pain modulation profiles and assessment of its relationship with clinical characteristics. *Journal of Oral Rehabilitation*. 46(3):219-232. <https://doi.org/10.1111/joor.12745>

Oghli I, List T, **John MT**, Häggman-Henrikson B, Larsson P. 2019. Prevalence and normative values for jaw functional limitations in the general population in Sweden. *Oral Diseases*. 25(2):580-587. <https://doi.org/10.1111/odi.13004>

Reissmann DR, Wolfart S, **John MT**, Marré B, Walter M, Kern M, Kohal R, Nothdurft F, Stark H, Schierz O, Wöstmann B, Hannak W, Mundt T, Pospiech P, Boldt J, Edelhoff D, Busche E, Jahn F, Luthardt RG, Hartmann S, Heydecke G. 2019. Impact of shortened dental arch on oral health-related quality of life over a period of 10 years – A randomized controlled trial. *Journal of Dentistry*. 80:55-62. <https://doi.org/10.1016/j.jdent.2018.10.006>

Reissmann DR, **John MT**, Enstad CJ, Lenton PA, Sierwald I. 2019. Measuring patients' orofacial appearance: Validity and reliability of the English-language Orofacial Esthetic Scale. *Journal of the American Dental Association*. 150(4):278-286. <https://doi.org/10.1016/j.adaj.2018.11.024>

Schuermans TJ, **Nixdorf DR**, Idiyatullin DS, Law AS, Barsness BD, Roach SH, **Gaalaas L**. 2019. Accuracy and Reliability of Root Crack and Fracture Detection in Teeth Using Magnetic Resonance Imaging. *Journal of Endodontics*. 45(6):750-755.e2. <https://doi.org/10.1016/j.joen.2019.03.008>

Shepard C, Xu J, Holler J, Kim DH, **Mansky LM**, Schinazi RF, Kim B. 2019. Effect of induced dNTP pool imbalance on HIV-1 reverse transcription in macrophages. *Retrovirology*. 16(1). <https://doi.org/10.1186/s12977-019-0491-0>

Shueb SS, Erb SJ, Lunzer MM, Speltz R, Harding-Rose C, Akgün E, **Simone DA**, Portoghese PS. 2019. Targeting MOR-mGluR5 heteromers reduces bone cancer pain by activating MOR and inhibiting mGluR5. *Neuropharmacology*. 160. <https://doi.org/10.1016/j.neuropharm.2019.107690>

Simancas-Pallares M, **John MT**, Enstad C, Lenton P. 2019. The Spanish Language 5-Item Oral Health Impact Profile. *International dental journal*. <https://doi.org/10.1111/idj.12534>

Sude A, **Nixdorf DR**, Grande AW. 2019. Human papillomavirus-positive oropharyngeal squamous cell carcinoma manifesting as glossopharyngeal neuralgia. *Journal of the American Dental Association*. 150(12):1059-1061. <https://doi.org/10.1016/j.adaj.2019.10.004>

Uhelski ML, **Simone DA**. 2019. Sensitization of nociceptors and dorsal horn neurons contributes to pain in sickle cell disease. *Neuroscience Letters*. 705:20-26. <https://doi.org/10.1016/j.neulet.2019.04.013>

Wilkinson PE, **Gopalakrishnan R**, Argyris PP. 2019. Intraoral Cutaneous Hamartomas-Clinicopathologic and Immunohistochemical Characteristics of 3 Cases. *The American Journal of dermatopathology*. 41(11):794-798. <https://doi.org/10.1097/DAD.0000000000001354>

## Primary Dental Care

**Flynn PM**, **John MT**, Sistani MMN. 2019. Confirmation of the unidimensional structure of the Oral Health Literacy Adults Questionnaire. *International dental journal*. 69(3):207-213. <https://doi.org/10.1111/idj.12451>

**Mays KA**, Scheffert DR, Maguire M, Lunos S, Johnson R, Jackson L, **Riggs S**. 2019. Dental Students' Intent to Practice in Rural Communities Before and After Community-Based Rotations in a Rural Area. *Journal of dental education*. 83(11):1296-1303. <https://doi.org/10.21815/JDE.019.142>

Nieto V, **Arnett M**, Furgeson D. 2019. Attitudes and Access Patterns of Michigan Veterans Ineligible for Oral Healthcare Benefits: A cross-sectional study. *Journal of dental hygiene : JDH*. 93(4):6-13.

**Quick K**, **Blue CM**. 2019. Using Situated Learning Theory to Build an Interactive Learning Environment to Foster Dental Students' Professionalism: An Ignite Project. *Journal of dental education*. 83(3):334-341. <https://doi.org/10.21815/JDE.019.030>

**Quick K**, Selameab T, Woll A, Mazzei C, Miller JL. 2019. Creating and Evaluating Skills-Based Training in Working with Spoken-Language Interpreters for Oral Health Professions Students. *Journal of dental education*. 83(6):645-653. <https://doi.org/10.21815/JDE.019.081>

**Reibel YG**, Pusalavidyasagar S, **Flynn PM**. 2019. Obstructive Sleep Apnea Knowledge: Attitudes and screening practices of Minnesota dental hygienists. *Journal of dental hygiene : JDH*. 93(3):29-36.

Sager JJ, **Blue CM**. 2019. Reflective learning outcomes of community-based experiences: A qualitative study. *Journal of dental education*. 83(5):530-535. <https://doi.org/10.21815/JDE.019.061>

## Restorative Sciences

Acosta S, Quintanilla L, Alonso M, **Aparicio C**, Rodríguez-Cabello JC. 2019. Recombinant AMP/Polypeptide Self-Assembled Monolayers with Synergistic Antimicrobial Properties for Bacterial Strains of Medical Relevance. *ACS Biomaterials Science and Engineering*. 5(9):4708-4716. <https://doi.org/10.1021/acsbomaterials.9b00247>

Acosta S, Quintanilla L, Alonso M, **Aparicio C**, Rodríguez-Cabello JC. 2019. Correction to: Recombinant AMP/Polypeptide Self-Assembled Monolayers with Synergistic Antimicrobial Properties for Bacterial Strains of Medical Relevance (ACS Biomater. Sci. Eng. (2019) 5:9 (4708-4716) DOI: 10.1021/acsbomaterials.9b00247). ACS Biomaterials Science and Engineering. 5(11). <https://doi.org/10.1021/acsbomaterials.9b01458>

Alcala-Orozco CR, **Mutreja I**, Cui X, **Kumar D**, Hooper GJ, Lim KS, Woodfield TBF. 2019. Design and characterisation of multi-functional strontium-gelatin nanocomposite bioinks with improved print fidelity and osteogenic capacity. Bioprinting. <https://doi.org/10.1016/j.bprint.2019.e00073>

Arpa C, Ceballos L, Fuentes MV, **Perdigão J**. 2019. Repair bond strength and nanoleakage of artificially aged CAD-CAM composite resin. Journal of Prosthetic Dentistry. 121(3):523-530. <https://doi.org/10.1016/j.prosdent.2018.05.013>

Cheng Z, Ye Z, Natan A, Ma Y, Li H, Chen Y, Wan L, **Aparicio C**, Zhu H. 2019. Bone-Inspired Mineralization with Highly Aligned Cellulose Nanofibers as Template. ACS Applied Materials and Interfaces. 11(45):42486-42495. <https://doi.org/10.1021/acscami.9b15234>

de Souza LC, Rodrigues NS, Cunha DA, Feitosa VP, Santiago SL, Reis A, Loguercio AD, Matos TDP, Saboia VDPA, **Perdigão J**. 2019. Two-year clinical evaluation of proanthocyanidins added to a two-step etch-and-rinse adhesive. Journal of Dentistry. 81:7-16. <https://doi.org/10.1016/j.jdent.2018.12.012>

Divine KA, McClanahan SB, **Fok A**. 2019. Anatomic Analysis of Palatal Roots of Maxillary Molars Using Micro-computed Tomography. Journal of Endodontics. 45(6):724-728. <https://doi.org/10.1016/j.joen.2019.03.007>

Dryer RR, **Conrad HJ**. 2019. Displacement of a Dental Implant into the Pterygoid Fossa: A Clinical Report. Journal of Prosthodontics. 28(9):1044-1046. <https://doi.org/10.1111/jopr.13126>

Habib M, **Chew HP**. 2019. Methods of assessment of early dentine erosion: a review. JPMA. The Journal of the Pakistan Medical Association. 69(10):1509-1513.

He Y, **Fok A**, **Aparicio C**, Teng W. 2019. Contact analysis of gap formation at dental implant-abutment interface under oblique loading: A numerical-experimental study. Clinical Implant Dentistry and Related Research. 21(4):741-752. <https://doi.org/10.1111/cid.12792>

He Y, Chen YC, Teng W, **Fok ASL**, **Chew HP**. 2019. Prosthetic Correction of Proclined Maxillary Incisors: A Biomechanical Analysis. Computational and mathematical methods in medicine. 2019. <https://doi.org/10.1155/2019/7416076>

Lopes GC, **Perdigão J**, Baptista D, Ballarin A. 2019. Does a self-etching ceramic primer improve bonding to lithium disilicate ceramics? Bond strengths and FeSEM analyses. Operative dentistry. 44(2):210-218. <https://doi.org/10.2341/17-355-L>

Moussa DG, **Aparicio C**. 2019. Present and future of tissue engineering scaffolds for dentin-pulp complex regeneration. Journal of Tissue Engineering and Regenerative Medicine. 13(1):58-75. <https://doi.org/10.1002/term.2769>

Moussa DG, **Fok A**, **Aparicio C**. 2019. Hydrophobic and antimicrobial dentin: A peptide-based 2-tier protective system for dental resin composite restorations. Acta Biomaterialia. 88:251-265. <https://doi.org/10.1016/j.actbio.2019.02.007>

Moussa DG, Kirihara JA, Ye Z, **Fischer NG**, Khot J, Witthuhn BA, **Aparicio C**. 2019. Dentin Priming with Amphipathic Antimicrobial Peptides. *Journal of dental research*. 98(10):1112-1121. <https://doi.org/10.1177/0022034519863772>

Munari LS, Bowles WR, **Fok ASL**. 2019. Relationship between Canal Enlargement and Fracture Load of Root Dentin Sections. *Dental Materials*. 35(5):818-824. <https://doi.org/10.1016/j.dental.2019.02.015>

**Mutreja I**, Warring SL, Lim KS, Swadi T, Clinch K, Mason JM, Sheen CR, Thompson DR, Ducati RG, Chambers ST, Evans GB, Gerth ML, Miller AG, Woodfield TBF. 2019. Biofilm Inhibition via Delivery of Novel Methylthioadenosine Nucleosidase Inhibitors from PVA-Tyramine Hydrogels while Supporting Mesenchymal Stromal Cell Viability. *ACS Biomaterials Science and Engineering*. 5(2):748-758. <https://doi.org/10.1021/acsbomaterials.8b01141>

Nagarkar S, Theis-Mahon N, **Perdigão J**. 2019. Universal dental adhesives: Current status, laboratory testing, and clinical performance. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*. 107(6):2121-2131. <https://doi.org/10.1002/jbm.b.34305>

Nagendrababu V, Murray PE, **Ordinola-Zapata R**, Peters OA, Rôças IN, Siqueira JF, Priya E, Jayaraman J, Pulikkotil SJ, Dummer PMH. 2019. A protocol for developing reporting guidelines for laboratory studies in Endodontology. *International Endodontic Journal*. 52(8):1090-1095. <https://doi.org/10.1111/iej.13123>

Nagendrababu V, Murray PE, **Ordinola-Zapata R**, Peters OA, Rôças IN, Siqueira JF, Dummer PMH. 2019. Improving the design, execution, reporting and clinical translation of laboratory-based studies in Endodontology. *International Endodontic Journal*. 52(8). <https://doi.org/10.1111/iej.13122>

**Ordinola-Zapata R**, Martins JNR, Niemczyk S, Bramante CM. 2019. Apical root canal anatomy in the mesiobuccal root of maxillary first molars: influence of root apical shape and prevalence of apical foramina – a micro-CT study. *International Endodontic Journal*. 52(8):1218-1227. <https://doi.org/10.1111/iej.13109>

**Perdigão J**. 2019. What is authorship?. *Journal of Adhesive Dentistry*. 21(2):103-104. <https://doi.org/10.3290/j.jad.a42364>

**Perdigão J**. 2019. Resin infiltration of enamel white spot lesions: An ultramorphological analysis. *Journal of Esthetic and Restorative Dentistry*. <https://doi.org/10.1111/jerd.12550>

Qi Y, Cheng Z, Ye Z, Zhu H, **Aparicio C**. 2019. Bioinspired Mineralization with Hydroxyapatite and Hierarchical Naturally Aligned Nanofibrillar Cellulose. *ACS Applied Materials and Interfaces*. 11(31):27598-27604. <https://doi.org/10.1021/acsami.9b09443>

Seong WJ, Kotsakis G, Huh JK, Jeong SC, Nam KY, Kim JR, Heo YC, Kim HC, Zhang L, Evans MD, **Conrad H**, Schumacher RJ. 2019. Clinical and microbiologic investigation of an expedited peri-implantitis dog model: An animal study. *BMC Oral Health*. 19(1). <https://doi.org/10.1186/s12903-019-0837-y>

Souza JCM, Sordi MB, Kanazawa M, Ravindran S, Henriques B, Silva FS, **Aparicio C**, Cooper LF. 2019. Nano-scale modification of titanium implant surfaces to enhance osseointegration. *Acta Biomaterialia*. 94:112-131. <https://doi.org/10.1016/j.actbio.2019.05.045>

Tatullo M, Spagnuolo G, Codispoti B, Zamparini F, **Zhang A**, Esposti MD, **Aparicio C**, Rengo C, Nuzzolese M, Manzoli L, Fava F, Prati C, Fabbri P, Gandolfi MG. 2019. PLA-based mineral-doped scaffolds seeded with human periapical cyst-derived MSCs: A promising tool for regenerative healing in dentistry. *Materials*. 12(4). <https://doi.org/10.3390/ma12040597>

Wu J, Huang J, Yun J, Yang J, Yang J, **Fok A**, Wang Y. 2019. Enzyme-Directed Biomineralization Coating on TiO<sub>2</sub> Nanotubes and its Positive Effect on Osteogenesis. *ACS Biomaterials Science and Engineering*. 5(6):2769-2777. <https://doi.org/10.1021/acsbomaterials.9b00418>

Yang B, Huang Q, Holmes B, Guo J, Li Y, Heo Y, **Chew HP**, Wang Y, **Fok A**. 2019. Influence of curing modes on the degree of conversion and mechanical parameters of dual-cured luting agents. *Journal of Prosthodontic Research*. <https://doi.org/10.1016/j.jpjor.2019.06.002>

**Ye Z, Zhu X**, Acosta S, **Kumar D, Sang T, Aparicio C**. 2019. Self-assembly dynamics and antimicrobial activity of all l- and d-amino acid enantiomers of a designer peptide. *Nanoscale*. 11(1):266-275. <https://doi.org/10.1039/c8nr07334a>, <https://doi.org/10.1039/C8NR07334A>

**Ye Z, Aparicio C**. 2019. Modulation of supramolecular self-assembly of an antimicrobial designer peptide by single amino acid substitution: implications on peptide activity. *Nanoscale Advances*. 1(12):4679-4682. <https://doi.org/10.1039/c9na000498j>

Yun J, Wu J, **Aparicio C**, Hon Tsoi JK, Wang Y, **Fok A**. 2019. Enzyme-Mediated Mineralization of TiO<sub>2</sub> Nanotubes Subjected to Different Heat Treatments. *Crystal Growth and Design*. 19(12):7112-7121. <https://doi.org/10.1021/acs.cgd.9b00966>

## **Institute for Molecular Virology**

Sayed ME, Cheng A, Yadav GP, Ludlow AT, Shay JW, Wright WE, Jiang QX. 2019. Catalysis-dependent inactivation of human telomerase and its reactivation by intracellular telomerase-activating factors (iTAFs). *Journal of Biological Chemistry*. 294(30):11579-11596. <https://doi.org/10.1074/jbc.RA118.007234>