

# ATSU RESEARCH

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Image (bovine lens epithelial cells) courtesy of Dr. Patricia Sexton

*“The good thing about science is that it’s true whether or not you believe in it.”  
~Neil deGrasse Tyson*

## Publications

- Aboul-Enein BH, Puddy WC, **Bernstein J**. [Ansel Benjamin Keys \(1904-2004\): his early works and the legacy of the modern Mediterranean diet](#). J Med Biogr. 2020;28(3):139-147.
- Alfaifi M, **Park JH**, Tai K [visiting adjunct], Ku JH, Vaid NR, Kook YA, Shoaib AM, Bayome M. [Comparison of treatment effects with modified C-palatal plates vs Greenfield molar distalizer appliances in adolescents](#). J Clin Pediatr Dent. 2020;44(3):202-208.
- Alreshidi MM, Dunstan RH, Macdonald MM, **Singh VK**, Roberts TK. [Analysis of cytoplasmic and secreted proteins of \*Staphylococcus aureus\* revealed adaptive metabolic homeostasis in response to changes in the environmental conditions representative of the human wound site](#). Microorganisms. 2020;8(7):1082.
- Barone N, Pangrazio-Kulbersh V, Sabott DG, Foley PF, Trulove TS, **Park JH**, Hernandez-Orsini R, McCullough S, Tadlock LP. [American Board of Orthodontics: progress of the scenario-based clinical examination](#). Am J Orthod Dentofacial Orthop. 2020;158(1):14-15.
- Benajiba N, **Bernstein J**, Aboul-Enein BH. [Attitudes toward sweetened soft drinks and consumption patterns among Saudi women: a cross-sectional study](#). Eat Behav. 2020;38:101413.
- Benajiba N, Mahrous L, **Bernstein J**, Aboul-Enein BH. [Food labeling use by consumers in Arab countries: a scoping review](#). J Community Health. 2020;45(3):661-674.
- Chan TLH, **Hale TD**, Steenerson KK. [Vestibular lab testing: interpreting the results in the headache patient with dizziness](#). Curr Neurol Neurosci Rep. 2020;20(6):16.
- Conley Q**, Atkinson RK, Nguyen F, Nelson BC. [MantarayAR: leveraging augmented reality to teach probability and sampling](#). Comput Educ. 2020;153:103895.

## **Publications, continued**

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DeMars ZR, **Singh VK**, Bose JL. [Exogenous fatty acids remodel \*Staphylococcus aureus\* lipid composition through fatty acid kinase](#). J Bacteriol. 2020;202(14):e00128-20.

**Dishman L**, Schroeder V [adjunct]. [A COVID-19 patient's experience: engagement in disease management, interactions with care teams and implications on health policies and managerial practices](#). Patient Exp J. 2020;7(2):33-38.

**Dishman L**, Thomas K [alum]. [A mixed-method study to examine the relationship among communication training, physician communication competency, and stroke patient outcomes: a journey of student-supervisor collaboration](#). SAGE Res Methods Cases Med Health. 2020.

**Doublestein D**, Sublett S, Huang M. [Effects of manual lymphatic drainage techniques on conditions affecting the musculoskeletal system: a systematic review](#). Orthop Phys Ther Pract. 2020;32(2):92-101.

Harwood TC, Oliver AS [student], King S, Shahlapour M, Dhillon WS. [Long-term durable response after treatment of metastatic salivary duct carcinoma with pembrolizumab](#). JCO Oncol Pract. 2020;16(7):397-398.

Hout B [alum], **Matthews EP**, Van Gent JM. [Global surgery: the perspective of public health students](#). Glob J Health Sci. 2020;12(8):1-8.

**Howell SEI**. [Attitudes and behaviors regarding public health of dental school graduates from A.T. Still University](#). J Dent Educ. 2020;84(6):681-687.

Howman J, **Wilkinson TC**, Mulligan NF, Lardinois KL, Pientok C. [Perspective in physical therapy education: creating a communication network to connect clinical education stakeholders](#). J Clin Educ Phys Ther. 2020;2:1962.

Hunton R [alum]. [Seeking a balanced approach to implementing sepsis guidelines](#). JAAPA. 2020;33(7):13-17.

Johnson SW [alum], **Mathieson K**. [The effects of demographics on physician assistant attitudes and openness towards interprofessional medical collaboration and education](#). J Interprof Educ Pract. 2020;19:100333.

Kim MS, Lim SH, Jeong SR, **Park JH**. [Maxillary molar intrusion and transverse decompensation to enable mandibular single-jaw surgery with rotational setback and transverse shift for a patient with mandibular prognathism and asymmetry](#). Am J Orthod Dentofacial Orthop. 2020;157(6):818-831.

Kim SB, Cho J, Jue SS, **Park JH**, Kim JY. [Effect of hyaluronic acid filler injection on the interdental papilla in a mouse model of open gingival embrasure](#). Int J Environ Res Public Health. 2020;17(14):4956.

Klassen M [student], **Adams J**, **Cramberg M**, Knoche L [student], **Young BA**. [The narial musculature of \*Alligator mississippiensis\*: can a muscle be its own antagonist?](#) J Morphol. 2020;281(6):608-619.

## **Publications, continued**

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Labarca G, Dreyse F, Drake L [student], Jorquera J, Barbe F. [Efficacy of continuous positive airway pressure \(CPAP\) in the prevention of cardiovascular events in patients with obstructive sleep apnea: systematic review and meta-analysis](#). Sleep Med Rev. 2020;52:101312.

Marshall AN [adjunct], Kikugawa TM [alum], **Lam KC**. [Patient, treatment, and cost characteristics associated with sport-related ankle sprains: a report from the Athletic Training Practice-Based Research Network](#). Athl Train Sports Health Care. 2020;12(4):173-180.

Matsushita S [student], **Wong B**, Kanumalla R [student], **Goldstein L**. [Osteopathic manipulative treatment and psychosocial management of dysmenorrhea](#). J Am Osteopath Assoc. 2020;120(7):479-482.

McCoy L, **Lewis JH**, **Simon H**, **Sackett D**, **Dajani T**, **Morgan C**, Hunt A. [Learning to speak up for patient safety: interprofessional scenarios for training future healthcare professionals](#). J Med Educ Curric Dev. 2020;7:2382120520935469.

McDaniel JT, **Davis JM**, McDermott RJ, Maxfield I, Kapatamoyo K. [Predicted prevalence of oral human papillomavirus \(HPV\) by periodontitis status and HPV vaccination status](#). J Public Health Dent. 2020;80(2):132-139.

Naik RY [student], Foster D [alum], Bray P [alum], **Chang Y**, **Han BH**. [Monocyte chemotactic protein-1-induced protein 1 contributes to neuronal injury following hypoxic-ischemia in the neonatal mouse brain](#). Neuroreport. 2020;31(11):833-839.

**Nenad MW**. [The multiple mini-interview and dental hygiene admissions: a feasible option?](#) J Dent Educ. 2020;84(6):634-641.

Nottingham SL, Kasamatsu TM, Eberman LE, Neil ER, **Welch Bacon CE**. [Aspects of technology that influence athletic trainers' current patient care documentation strategies in the secondary school](#). J Athl Train. 2020;55(8):780-788.

**Park JH**, Kim JH [resident], Kai A [resident], Rogowski L [resident], Liu A [resident]. [Post-COVID-19 management guidelines for orthodontic practices](#). J Clin Orthod. 2020;54(6):351-356.

Rice JB [alum], **Mathieson KM**. [A comparison of practice patterns among certified and noncertified asthma educators](#). Respir Care. 2020;65(7):966-971.

Sayed ME, Ahmed WM, **Jurado CA**, Tsujimoto A. [Two-piece mesostructure and vertically oriented locking screws design for implant-assisted prosthesis in the esthetic zone](#). Niger J Clin Pract. 2020;23(8):1178-1181.

Schlegel SM [alum], **Mathieson K**. [Occupational therapy in Haiti: a pilot study to identify intervention methods used during short-term medical missions](#). Occup Ther Int. 2020;2020:4198402.

**Spolarich AE**, Hezarkhani A [alum], **Shlossman M**. [Toxicity of e-cigarettes on human health](#). Decis Dent. 2020;6(7):36-39.

## **Publications, continued**

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Vicente MC [visiting scholar], Humphrey CM, Gargaglioni LH, **Ostrowski TD**. [Decreased excitability of locus coeruleus neurons during hypercapnia is exaggerated in the streptozotocin-model of Alzheimer's disease](#). Exp Neurol. 2020;328:113250.

Volkov LI, **Kim-Han JS**, Saunders LM, Poria D, Hughes AEO, Kefalov VJ, Parichy DM, Corbo JC. [Thyroid hormone receptors mediate two distinct mechanisms of long-wavelength vision](#). Proc Natl Acad Sci U S A. 2020;117(26):15262-15269.

Wijesinghe S [alum], **Alexander JL**. [Management and treatment of HIV: are primary care clinicians prepared for their new role?](#) BMC Fam Pract. 2020;21:130.

Yeargin S, Lopez RM, **Snyder Valier AR**, DiStefano LJ, McKeon PO, Medina McKeon JM. [Navigating athletic training position statements: the strength of recommendation taxonomy system](#). J Athl Train. 2020;55(8):863-868.

**Zegarra-Parodi R**, Draper-Rodi J, Cerritelli F. [Erweiterung des biopsychosozialen Modells für die muskuloskeletale Praxis. Teil 1: einföhrung religiöser und spiritueller Dimensionen in das biopsychosoziale Modell](#). Osteopath Med. 2020;21(2):28-32.

## **Presentations and abstracts**

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Beidler E, Powers C, Saitz L, **Welch Bacon CE**, **Valovich McLeod TC**. Compliance with state law components of sport-related concussion protocols in Pennsylvania high schools. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

DiSanti JS, Marshall AN [adjunct], **Valier AR**, **Valovich McLeod TC**. Comparison of HRQL across recovery following sport-related concussion or acute ankle injury: a report from the Athletic Training Practice-Based Research Network. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

**Dishman L**. COVID-19: lessons learned for healthcare management education. Presented virtually at: 80th Annual Meeting of the Academy of Management; August 7-11, 2020.

**Dishman L**. Working with executive and/or doctoral students. Presented virtually at: 80th Annual Meeting of the Academy of Management; August 7-11, 2020.

**Duong ML**. SCD talks: ideas worth sharing. Presented virtually at: Special Care Dentistry Association 2020 Virtual Meeting; August-September 2020.

Honrado JS [student], **Bay RC**, **Lam KC**. Epidemiology of dance-related injuries presenting to emergency departments in the United States, 2014-2018. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

**Lam KC**. Got data? Using patient care documentation to drive clinical decisions and improve care. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

## **Presentations and abstracts, continued**

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**Lam KC, Valovich McLeod TC, Marshall AN** [adjunct]. Self-report of pain, function, improvement, and disablement at return-to-play following a knee sprain injury: a report from the Athletic Training Practice-Based Research Network. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

Marshall AN [adjunct], Wikstrom EA, **Bay RC, Lam KC**. Patient outcomes at return-to-play following ankle sprain injuries: a report from the Athletic Training Practice-Based Research Network. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

Quintana L [student], **Anderson BA, Marshall AN** [adjunct], **Lam KC, Valovich McLeod TC**. Patient, injury, and treatment characteristics of hip injuries presenting to athletic training clinics: a report from the Athletic Training Practice-Based Research Network. Presented virtually at: 2020 National Athletic Trainers' Association Virtual Clinical Symposia; July 2020.

**Ramaraj P**. In-vitro studies based on steroids, IL-8, curcumin and active vitamin-D3 treatments of human melanoma cell lines. Presented virtually at: World Congress and Expo on Cell and Stem Cell Research; July 2020.

**Spolarich AE**. Accreditation standards for dental hygiene education programs: proposed revisions. Presented virtually at: American Dental Hygienists' Association 2020 Annual Conference; June 2020.

**Spolarich AE**. The older adult: the new face of addiction. Presented virtually at: Special Care Dentistry Association 2020 Virtual Meeting; August-September 2020.

**Stuart MK, Motes HC** [student], **Hudman DA**. Effect of phytochemicals on the viability of the oral protozoan, *Trichomonas tenax*. Poster presented virtually at: American Society for Microbiology Microbe 2020 Online; Summer 2020.

## **Sorry we missed you last time**

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**Abdulkarim H, Zeng R** [alum], Maurath B [student], **Davis J**. Correlation between tactile sensation and CBCT density in dental implants. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):3468.

**Adams S, McClement M** [alum], Allen S [alum], Knable T [alum]. Completion of definitive restoration following endodontic treatment for the underserved. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):0615.

Anderson MN, Weber Rawlins ML [fellow], Schmidt JD. [The influence of coping, perceptions of limitations, interference, and locus of control on concussion care-seeking intentions in collegiate athletes](#). J Clin Transl Res. 2020;5(4):204-214.

## **Sorry we missed you last time, continued**

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**Batista G**, Cruz I, Kukulka E, Torres C. Profilometric analysis of direct and indirect composites after brushing simulation. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):1830.

Bujnoski E [alum], **Patel S**, **Spolarich AE**. Investigating treatment-induced trismus in patients with head and neck cancers. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):3529.

Chun KC, Kim YS, Won HD, Maddox R [alum], Bach Q [student], Kim YA, Kim DY.  $\beta$ HB suppresses mTOR signaling and inflammation in ovarian cancer cells. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):0594.

**Crivello B**, Bartle E [alum]. Mentorship: availability and needs for junior dental faculty. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020. Abstract published in: J Dent Educ. 2020;84(2):244.

**Crivello B**, **Davis JM**. Outcome evaluations of an experiential learning modality in dental education. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):1394.

Humphrey M, Lowenthal PR, **Conley Q**, Lowenthal A. Digital literacy and special education: an investigation of special education teachers' digital literacy skills. Presented virtually at: American Educational Research Association 2020 Annual Meeting. <http://tinyurl.com/s4sx7or>.

Jin T, **Conley Q**, Schneider E. Maximizing the digital reading experience in e-textbooks: how much is too much on a page. Presented virtually at: American Educational Research Association 2020 Annual Meeting. <http://tinyurl.com/tvlrfxj>.

Kim YS, Bach Q [student], Maddox R [alum], Seo J, Kim DY. Ketogenic diet confers hippocampal neuroprotection in epileptic *Kcna1*-null mice. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):0884.

McClement M [alum], Knable T [alum], Allen S [alum], **Adams S**, **Davis J**. Quality improvement assessment of endodontic care using dental school EDR. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020. Abstract published in: J Dent Educ. 2020;84(2):191.

**Muller R**, Nguyen T [alum], Nguyen N [alum], **Bhatia S**. Bilingual brochure for oral health literacy improvement in Vietnamese population. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):1412.

Mwanje E, Jin T, **Conley Q**, Yarbrow J. Educational design research: the validation of application of case studies to enhance digital reading experiences. Presented virtually at: American Educational Research Association 2020 Annual Meeting. <http://tinyurl.com/vhvp86o>.

## **Sorry we missed you last time, continued**

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Nickle TR [alum], **Stanley EM, Middlemas DS**. [Corticosterone induces depressive-like behavior in female peri-pubescent rats, but not in pre-pubescent rats](#). *Chronic Stress*. 2020;4:2470547020923711.

**Omar H**. Students' generated videos to enhance first year dental students' cultural awareness. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020.

**Omar H, Musawi A**. Effectiveness of collaborative learning tool for case-based learning in removable partial denture. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: *J Dent Res*. 2020;99(A, special issue):2430.

**Raines DA**, Robinson J. [Format of parent education material preferred by new mothers](#). *Clin Nurs Res*. 2020;29(4):256-259.

**Ramaraj P**. Can interleukin-8 alone be responsible for regulating melanoma growth and metastasis? In-vitro studies based on treatments of human melanoma cell lines (BLM and 1205Lu) with sex steroids, IL-8, curcumin and active vitamin-D3. *FASEB J*. 2020;34(suppl 1):09139.

**Ramaraj P**. Interleukin-8: a possible target for melanoma treatment? In-vitro studies based on human melanoma cell models. *J Endocr Soc*. 2020;4(suppl 1):SUN-LB27.

Salar E [alum], Kasisa M [alum], VanWinkle E [alum]. Evaluating the accuracy of dental scanners. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020. Abstract published in: *J Dent Educ*. 2020;84(2):208-209.

Schmidt JD, Suggs DW, Weber Rawlins ML [fellow], Bierema L, Miller LS, Courson R, Reifsteck F. [Coach, sports medicine, and parent influence on concussion care seeking intentions and behaviors in collegiate student-athletes](#). *J Clin Transl Res*. 2020;5(4):215-226.

**Schwartz F, Vora R, Spolarich AE**. Patients, providers, and students: training to prevent emotional collapse and addiction. Presented virtually at: American Association of Colleges of Osteopathic Medicine Annual Conference Educating Leaders 2020; March 25-27, 2020.

Shakiba S [alum], Rohani S [alum], **Bhatia S, Muller R**. Outreach program impact on utilization of dental services by immigrants. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020. Abstract published in: *J Dent Educ*. 2020;84(2):188.

**Shlossman M, Levine R, Bay C**, Gillece J, Engelthaler D, **Makin IRS**. Treatment of chronic periodontitis with 980 nm diode laser: microbiomic results. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: *J Dent Res*. 2020;99(A, special issue):1558.

**Skinner K, Maxwell B**, Baskerville A [student], Milanović J. Audiology students learn interprofessional collaboration. Poster presented virtually at: American Academy of Audiology 2020 Conference; April 1-4, 2020.

## Sorry we missed you last time, continued

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**Spolarich AE.** [Challenges with adherence to clinical practice guidelines: lessons for implementation science](#). J Dent Hyg. 2020;94(2):4-8.

**Spolarich AE.** Oral health literacy in older adults with intellectual and developmental disabilities (IDD). Presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020.

**Spolarich AE.** [What are the contraindications to chlorhexidine use](#). Dimens Dent Hyg. 2020;18(5):47.

**Spolarich AE, Gohlke E, Fallone K.** Dental hygiene student training outcomes in special care dentistry. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):1992.

**Spolarich AE, Hezarkhani A [alum], Shlossman M.** [Lung disease and e-cigarettes](#). Dimens Dent Hyg. 2020;18(5):28-31.

Tran H [alum], Ghattan S [alum], **Perry M, Duong ML.** Train the trainer model: oral care for special education teachers. Poster presented virtually at: 2020 American Dental Education Association Annual Session; March 14-17, 2020. Abstract published in: J Dent Educ. 2020;84(2):199.

Tsang C [alum], **Spolarich AE.** Inappropriate medication use among geriatric dental patients. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):3459.

**Vij AA, Bushong B [adjunct], Patel E [alum].** [Interdisciplinary treatment of a “gummy smile” using digital smile design](#). J Cosmet Dent. 2020;36(1):86-97.

**Vij AA, Reddy A.** [Using digital impressions to fabricate space maintainers: a case report](#). Clin Case Rep. 2020;8(7):1274-1276.

Weber Rawlins ML [fellow], Suggs DW, Bierema L, Miller LS, Reifsteck F, Schmidt JD. [Examination of collegiate student-athlete concussion reporting intentions and behavior](#). J Clin Transl Res. 2020;5(4):186-196.

Yineman S [student], Chokdee D [alum], Choi L [alum], **Perry M, Duong ML.** Dental student behavioral intent following exposure to special care dentistry. Poster presented virtually at: 2020 International Association for Dental Research General Session; March 18-21, 2020. Abstract published in: J Dent Res. 2020;99(A, special issue):2336.

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