

STUDENT FEATURE: DMD/PhD STUDENT ELIZABETH PERRY



Elizabeth Perry matriculated into the DMD/PhD program at HSDM in 2014 after receiving a Bachelor of Science degree in biology from the University of Texas at San Antonio. She is working toward receiving her PhD degree in Biological Sciences in Dental Medicine from the Harvard

Graduate School of Arts and Sciences in 2021, and her DMD degree from Harvard School of Dental Medicine in 2022. **“I chose the DMD/PhD program because I wanted to have the dedicated time and training that the PhD could afford me, while also having the opportunity to train as a dentist at one of the top dental schools.”**

She is completing her thesis work in the lab of Pere Puigserver, PhD, at Dana Farber Cancer Institute, Department of Cancer Biology, Division of Metabolism and Chronic Disease. **“I chose to study mitochondrial disease because energy metabolism has always fascinated me and I am very interested in the connection between mitochondrial homeostasis and pro-inflammatory pathways. Being in the lab full-time was a difficult adjustment after having the structure of a classroom. I had to figure out how to organize my tasks in order to maximize my efficiency – a task that took months, if not years, to accomplish.”**

Elizabeth’s work was rewarded with an Intramural Research and Training Award from the National Institute of Dental and Craniofacial Research, and publications in peer-reviewed journals including: *Nature Metabolism*, *Cell Metabolism*, *Nature Communication*, *Cancer Research*, and *Journal Clinical Investigation*.

- **Perry E**, Bennett C, Luo C, Balsa E, Jedrychowski M, O’Malley K, Latorre-Muro P, Ladley R, Reda K, Wright P, Gygi S, Myers A, Puigserver P. Tetracyclines promote survival and fitness in mitochondrial disease models. *Nature Metabolism* 2021;3(1):33-42.
- Latorre-Muro P, O’Malley E, Bennett C, **Perry E**, Balsa E, Tavares C, Jedrychowski M, Gygi S, Puigserver P. A cold-stress-inducible PERK/OGT axis controls TOM70-assisted mitochondrial protein import and cristae formation. *Cell Metabolism* 2021:S1550-4131(21)00013-9.
- Balsa E, **Perry E**, Bennett C, Jedrychowski M, Gygi S, Doench J, Puigserver P. Defective NADPH production in mitochondrial disease complex I causes inflammation and cell death. *Nature Communication* 2020;11(1):2714.
- Luo C, Liang J, Sharabi K, Hatting M, **Perry E**, Tavares C, Goyal L, Srivastava A, Bilodeau M, Zhu A, Sicinski P, Puigserver P. Obesity/Type 2 diabetes-associated liver tumors are sensitive to cyclin D1 deficiency. *Cancer Research* 2020;80(16):3215-3221.
- Luo C, Balsa E, **Perry E**, Liang J, Tavares C, Vazquez F, Widlund H, Puigserver P. H3K27me3-mediated PGC1 α gene silencing promotes melanoma invasion through WNT5A and YAP. *Journal Clinical Investigation* 2020;130(2):853-862.

PUBLICATIONS

DEVELOPMENTAL BIOLOGY

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Kantaputra P, Intachai W, Carlson B, Olsen BR, Ngaohirunphat S, Sri-Oon J, Ketudat Cairns J, Choovuthayakorn J. Are dental anomalies associated with Tietz syndrome? *European Journal of Dermatology* 2020;30(6):734-736.

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Okuji D, Healy E, Wu Y. Opportunity for interprofessional collaboration: Screening for pediatric sleep-disordered breathing by dentists. *Pediatric Dentistry* 2020;42(6):436-40.

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Tomeh H, Bay R, Lovell K, Hong M. Self-motivation and self-direction in team-based and case-based learning. *Journal of Dental Education* 2021; Feb 16.

Utter D, Borisy G, Eren A, Cavanaugh C, Mark Welch J. Metapangenomics of the oral microbiome provides insights into habitat adaptation and cultivar diversity. *Genome Biology* 2020;21(1):293.

Yang X, Ye A, Katebi N, Volloch V, Khullar S, Patel V, Olsen BR. Mycobacterial and plasmodium ovale-associated destruction of the jaw bones. *Oral Diseases* 2020; Dec 16.

Zu T, Wang D, Xu S, Lee C, Zhen E, Yoon C, Abarzua P, Wang S, Frank N, Wu X, Lian C, Murphy G. ATF-3 expression inhibits melanoma growth by downregulating ERK and AKT pathways. *Laboratory Investigation* 2020; Dec 9.

ORAL MEDICINE, INFECTION AND IMMUNITY

Aldosari M, Helmi M, Kennedy E, Badamia R, Odani S, Agaku I, Vardavas C. Depression, periodontitis, caries and missing teeth in the USA, NHANES 2009-2014. *Family Medicine and Community Health* 2020;8(4):e000583.

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Hasturk H, Steed D, Tosun E, Martins M, Floros C, Nguyen D, Stephens D, Cugini M, Starr J, Van Dyke T. The use of amnion-derived cellular cytokine solution for the treatment of gingivitis: A two week safety, dose-ranging, proof-of-principle randomized trial. *Journal of Periodontology* 2021; Feb 15.

Jalali F, Ellett F, Balani P, Duncan M, Dewhirst F, Borisy G, Irimia D. No man's land: Species-specific formation of exclusion zones bordering *Actinomyces graevenitzii* microcolonies in nanoliter cultures. *MicrobiologyOpen* 2021; Feb 5.

Le P, Liu H, Alabdulaaly L, Vegting Y, Calle I, Gori F, Lanske B, Baron R, Rosen C. The role of Zfp467 in mediating the pro-osteogenic and anti-adipogenic effects on bone and bone marrow niche. *Bone* 2021;144:115832.

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Van Dyke T, Kholy K, Ishai A, Takx R, Mezue K, Abohashem S, Ali A, Yuan N, Hsue P, Osborne M, Tawakol A. Inflammation of the periodontium associates with risk of future cardiovascular events. *Journal of Periodontology* 2021; Jan 29.

Continued on page 4

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RESTORATIVE DENTISTRY AND BIOMATERIALS SCIENCES

Albahri R, Yoon H, Lee J, Yoon S, Lee S. Shear bond strength of provisional repair materials bonded to 3D printed resin. *Journal of Dental Science* 2021;16(1):261-267.

Alexopoulou M, Lambert F, Knafo B, Popelut A, Vandenberghe B, Finelle G. Immediate implant in the posterior region combined with alveolar ridge preservation and sealing socket abutment: A retrospective 3D radiographic analysis. *Clinical Implantology and Dental Related Research* 2021; Jan 13.

Inoue N, Kaczmarek K, Chen E, Ohyama H. Connecting the dots: Lessons learned from student performance in the pandemic era. *Journal of Dental Education* 2021; Jan 15.

Kim A. Using Concept videos to teach predoctoral dental students about intraoral and extraoral photography. *MedEdPORTAL* 2020 Dec 24;16:11055.

Lee S, Jamjoom F, Le T, Radics A, Gallucci G. A clinical study comparing digital scanning and conventional impression making for implant-supported prostheses: A crossover clinical trial. *Journal of Prosthetic Dentistry* 2021; Feb 15.

Negreiros W, Hamilton A, Gallucci G. A completely digital workflow for the transition from a failed dentition to interim complete-arch fixed implant-supported prostheses: A clinical report. *Journal of Prosthetic Dentistry* 2020; Dec 30:S0022-3913(20)30698-3.

ORAL HEALTH POLICY AND EPIDEMIOLOGY

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Agaku I, Egbe C, Ayo-Yusuf O. Geospatial spread of e-cigarette vape shops in South Africa and the relationship with tobacco product use among adults. *Health Place* 2021;68:102507.

Agaku I, Egbe C, Ayo-Yusuf O. Potential revenue from taxing e-cigarettes and comparison of annual costs of daily e-cigarette use versus daily cigarette smoking among South African adults. *Tobacco Induced Disease* 2021;19:07.

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Agaku I, Odani S, Nelson J. Medical use and misuse of psychoactive prescription medications among US youth and young adults. *Family Medical and Community Health* 2021; Jan;9(1).

Ahern J, Singer S, Bhanja A, Barrow J, Kerrissey M. Considering dentists within the healthcare team: A cross-sectional, multi-state analysis of primary care provider and staff perspectives. *Journal of General Internal Medicine* 2021; Jan 29.

Cadet T, Burke S, Naseh M, Grudzien A, Kozak R, Romeo J, Bullock K, Davis C. Examining the family support role of older Hispanics, African Americans, and Non-Hispanic Whites and their breast cancer screening behaviors. *Social Work and Public Health* 2021; 1-16.

Choi S, Wright D, Bleich S. Impact of restricting sugar-sweetened beverages from the supplemental nutrition assistance program on children's health. *American Journal of Preventive Medicine* 2021;60(2):276-284.

Kapos F, White L, Schmidt K, Hawes S, Starr J. Risk of non-syndromic orofacial clefts by maternal rural-urban residence and race/ethnicity: A population-based case-control study in Washington State 1989-2014. *Paediatric Perinatal Epidemiology* 2020; Dec 1.

Lin L, Ketkar A, Achalu P, Alqaderi H, Diamond S, Spero L, Turton B, Sokal- Gutierrez K. Oral health knowledge and practices in the Kaski District of Nepal. *Community Dental Health* 2021; Feb 4.

Saller F, Agaku I, Filippidis F. Association between e-cigarette use initiated after cigarette smoking and smoking abstinence: a cross-sectional study among adolescent established smokers in the USA. *Tobacco Control* 2021; Jan 7.

Thompson L, Chen H. Physiology of aging of older adults: Systemic and oral health considerations— 2021 update. *Dental Clinics of North America* 2021; Jan 22.

Vardavas C, Odani S, Nikitara K, El Banhawi H, Kyriakos C, Taylor L, Becuwe N. Public perspective on the governmental response, communication and trust in the governmental decisions in mitigating COVID-19 early in the pandemic across the G7 countries. *Preventive Medicine Reports* 2021;21:101252.

Wang M, Minyé H, Egan K, Heaton B. Community based sugar-sweetened beverage intervention associated with short-term improvements in self-rated oral health. *Community Dental Oral Epidemiology* 2021; Jan 3.

ORAL AND MAXILLOFACIAL SURGERY

Caruso D, Peacock Z. Lemierre Syndrome: Unusual presentation with superior ophthalmic vein thrombosis. *Journal of Craniofacial Surgery* 2021; Jan 5.

Chen Y, Han Y, Niu Z, Pu W, Tao R, Lei Y, Guo L, Zhang Q, August M, Zhang H, Han Y. Is Decreased local bone quality an independent risk factor for complications following fracture fixation of facial bones. *Journal of Craniofacial Surgery* 2021; Jan 7.

Drouin A, Wallbillich N, Theberge M, Liu S, Katz J, Bellovoda K, Se Yun Cheon S, Gootkind F, Bierman E, Zavras J, Berberich M, Kalocsay M, Guastaldi F, Salvadori N, Troulis M, Fusco

D. Impact of Zika virus on the human type I interferon osteoimmune response. *Cytokine* 2021;137:155342.

Elsten E, Caron C, Dunaway D, Padwa B, Forrest C, Koudstaal M. Dental anomalies in craniofacial microsomia. *Orthodontics and Craniofacial Research* 2020; 23:16-26.

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Lee C, Tannyhill R, Peacock Z. What factors are associated with open treatment of pediatric mandibular fractures? *Journal of Oral and Maxillofacial Surgery* 2020; Dec 24:S0278-2391(20)31520-2.

Liu D, Alhazmi N, Matthews H, Lee M, Li J, Hecht J, Wehby G, Moreno L, Heike C, Roosenboom J, Feingold E, Marazita M, Claes P, Liao E, Weinberg S, Shaffer J. Impact of low-frequency coding variants on human facial shape. *Science Reports* 2021;11(1):748.

Luo L, Wang X, Zhang Y, Wu Y, Hu F, Xing Z, Wang L, Xiao J, Guastaldi F, He Y, Ye Q. Biological Behavioral alterations of the post-neural differentiated dental pulp stem cells through an in-situ microenvironment. *Frontiers in Cell and Developmental Biology* 2020;8:625151.

Malloy S, Dronkers W, Firriolo J, Nuzzi L, Koudstaal M, Padwa B, Taghinia A, Labow B. Outcomes following microvascular mandibular reconstruction in pediatric patients and young adults. *Plastic and Reconstructive Surgery Global Open* 2020;8(11):e3243.

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Overcast W, Davis K, Ho C, Hutchins G, Green M, Graner B, Veronesi M. Advanced imaging techniques for neuro-oncologic tumor diagnosis, with an emphasis on PET-MRI imaging of malignant brain tumors. *Current Oncology Reports* 2021 Feb 18;23(3):34.

Continued on page 6

HSDM

STUDENT RESEARCH DAY

APRIL 6, 2021 • 9:30 AM – 3:00 PM VIA ZOOM

- BASIC SCIENCE RESEARCH CATEGORY
- CLINICAL & TRANSLATIONAL RESEARCH CATEGORY
- HEALTH POLICY/GLOBAL HEALTH & EDUCATION CATEGORY

DMD, DMD/PhD, MMSc, DMSc Student Posters

PLEASE CONTACT DAWN DECOSTA FOR FURTHER INFORMATION.



Reddy C, Mitra S, Meara J, Atun R, Afshar S. Artificial Intelligence and its role in surgical care in low-income and middle-income countries. *Lancet Digit Health* 2019;1(8):e384-e386.

Rooijers W, Caron C, Loudon S, Padwa B, Dunaway D, Forrest C, Koudstaal M. Ocular and adnexal abnormalities in craniofacial microsomia: a systematic review. *International Journal of Oral and Maxillofacial Surgery* 2020; 49:1107-1114

Sung T, Jiang Y, Hsu J, Ling Q, Chen H, Kumar S, Chang Y, Hsu S, Ye Q, Higuchi A. Transient characteristics of universal cells on human-induced pluripotent stem cells and their differentiated cells derived from foetal stem cells with mixed donor sources. *Cell Proliferation* 2021; Feb 1:e12995.

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Tolend M, Junhasavasdikul T, Cron R, Inarejos Clemente E, von Kalle T, Kellenberger C, Koos B, Miller E, van Rossum M, Saurenmann R, Spiegel L, Stimec J, Twilt M, Tzaribachev N, Abramowicz S, Appenzeller S, Arvidsson L, Guleria S, Jaremko J, Kirkhus E, Larheim T, Meyers A, Panwar J, Resnick C, Shelmerdine S, Feldman B, Doria A. Discrete choice experiment on a magnetic resonance imaging scoring system for temporomandibular joints in juvenile idiopathic arthritis. *Arthritis Care Research (Hoboken)* 2021; Feb 8.

Zhao C, Dombrowski N, Perez-Atayde A, Robson C, Afshar S, Janeway K, Rahbar R. Desmoid tumors of the head and neck in the pediatric population: Has anything changed? *International Journal of Pediatric Otorhinolaryngology* 2021 Jan;140:110511.

MULTI-DEPARTMENTAL

Chen C, Kim D, Lee C, Da Silva J, Nagai S, Nojiri T, Nagai M. Biological efficacy of perpendicular type-I collagen protruded from TiO₂-nanotubes. *International Journal of Oral Science* 2020;12(1):36.

Choi S, Choudhary A, Sonis S, Villa A. Benefits of the involvement of dentists in managing oral complications among patients with oral cavity and oropharyngeal cancer: An analysis of claims data. *JCO Oncology Practice* 2021; Feb 8.

Dolce M, Barrow J, Jivraj A, Pham D, Da Silva J. Interprofessional value-based health care: Nurse practitioner-dentist model. *Journal of Public Health and Dentistry* 2020;80 Suppl 2:S44-S49.

Fryburg D, Ureles S, Myrick J, Carpentier F, Oliver M. Kindness media rapidly inspires viewers and increases happiness, calm, gratitude, and generosity in a healthcare setting. *Frontiers in Psychology* 2021;11:591942.

Jalali F, Ellett F, Balani P, Duncan M, Dewhirst F, Borisy G, Irimia D. No man's land: Species-specific formation of exclusion zones bordering *Actinomyces graevenitzi* microcolonies in nanoliter cultures. *Microbiology Open* 2021 Feb 5:e1137.



HARVARD
School of Dental Medicine

PROFESSOR DONALD B. GIDDON, DMD, PHD
LECTURE IN BEHAVIORAL MEDICINE AND DENTISTRY

APRIL 6, 2021 via zoom



8:00-9:30 a.m. Dr. Richard Watt

"The Lancet Commission on Global Oral Health"

REGISTRATION – <http://bit.ly/3jovOmy>

12:00-1:30 p.m. Panel Discussion

REGISTRATION – <http://bit.ly/3pyozl5>



RIFAT ATUN



JANE BARROW



ALLAN BRANDT



GENE BUKHMAN



MARGARET KRUK



VIKRAM PATEL

RIFAT ATUN, MBBS, MBA

Professor of Global Health Systems at Harvard University and Faculty Chair for the Harvard Ministerial Leadership Program; Co-Chair for the Lancet Diabetes & Endocrinology Commission

JANE BARROW, MS (MODERATOR)

Associate Dean, Global and Community Health; Executive Director, Initiative to Integrate Oral Health and Medicine; Lecturer, Oral Health Policy and Epidemiology, Harvard School of Dental Medicine

ALLAN BRANDT, PHD

Professor of the History of Science; Amalie Moses Kass Professor of the History of Medicine, Harvard Medical School; Interim Director of the Harvard Global Health Institute

GENE BUKHMAN, MD, PHD

Director, Program in Global Noncommunicable Disease and Social Change; Assistant Professor of Global Health and Social Medicine, Harvard Medical School; Co-Chair for the Lancet NCDI Poverty Commission; Co-Chair for the Lancet Commission on Global Mental Health

MARGARET KRUK, MD, MPH

Associate Professor of Global Health at the Harvard T.H. Chan School of Public Health; Chair of the Lancet Global Health Commission on High Quality Health Systems

VIKRAM PATEL, PHD, MB

The Pershing Square Professor of Global Health, Harvard Medical School; Co-Chair for the Lancet Commission on Global Mental Health

RICHARD WATT, PHD, MSC, BDS

Professor of Dental Public Health, Department of Epidemiology and Public Health, University College London; Co-Lead of the Lancet Commission for Global Oral Health; Director, WHO Collaborating Centre on Oral Health Inequalities

SAVE THE DATES

Zoom links will be announced a week prior to the talk.

HARVARD
School of Dental Medicine


SCIENCE SPEAKER SERIES

MARCH 11, 2021 • 12PM-1PM • VIA ZOOM
HSDM REB AUDITORIUM • 190 LONGWOOD AVENUE

MATTHEW GREENBLATT, MD, PHD

Associate Professor of Pathology and Laboratory Medicine, Weill Cornell Medicine

"Discovery of a skeletal stem cell mediating osteoblast versus adipocyte lineage commitment"

3/11/21	12-1pm		Matt Greenblatt, MD PhD	9/9/21	12-1pm		Benjamin Wu, DDS, PhD
4/8/21	12-1pm		Flavia Teles, DDS, MS, DMSc	10/7/21	12-1pm		Lynda F. Bonewald, PhD
5/6/21	12-1pm		Yi-Xian Qin, PhD	11/18/21	12-1pm		Tamara Alliston, PhD
6/10/21	12-1pm		Michael Longaker, MD, MBA	12/9/21	12-1pm		Jean X. Jiang, PhD



KONSTANTIN KROSS, DMD, DSc, JOINS THE SIMA LAB

Konstantin Kross, DMD, DSc, joined the Sima Lab as a visiting research fellow in Oral Medicine, Infection and Immunity. Kross completed his DMD and DSc and residency in periodontology at Justus-Liebig-University, Giessen, Germany, and is a periodontist certified by the German Society of Periodontology. Kross will work with Dr. Corneliu Sima, assistant professor of Oral Medicine, Infection and Immunity, on applying artificial intelligence and machine learning on electronic health records data to improve remote diagnosis and management of periodontal conditions in an era of increasingly reduced access to in-office care.

LEADERSHIP CHANGES IN THE OFFICE OF RESEARCH

Dr. Malcolm Whitman, professor in the Department of Developmental Biology and associate dean for Basic Science Research will be stepping down from his role as associate dean to devote more of his time to his research program. Dr. Yingzi Yang has agreed to serve as HSDM's Associate Dean of Research, expanding on her previous role as Associate Dean for Translational Research. The new position will combine what was previously two associate dean roles in the Office of Research into one single leadership role. These changes will become effective March 1, 2021.

Dr. Whitman's high acumen in the research community, his exemplary citizenship, and his strong dedication to HSDM in supporting our research programs will be greatly missed. He has overseen significant re-structuring of the Advanced Graduate Education (AGE) research curriculum, including a redesign of the AGE Fundamentals of Research course and the AGE research examination process. Most recently, he served as HSDM's representative to Harvard Medical School and the University where he has been instrumental in establishing policies that have guided the maintenance of our research programs during the Covid-19 pandemic.

A PUBLICATION OF THE OFFICE OF RESEARCH

Yingzi Yang, PhD

Professor of Developmental Biology and Associate Dean for Research

Dawn M. DeCosta

Editor, Design and Layout

Heather M. Denny

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Lia Sgourakes

Editing

Ashley Simmons

Editing

If you have questions, or comments, please contact Dawn M. DeCosta, Director of Research Operations at 617-824-0715 (or) dawn_decosta@hsdm.harvard.edu.