

CURRICULUM VITAE

NAME: Walid D. Fakhouri
TITLE: Assistant Professor
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School of Dentistry
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CITIZENSHIP: American

UNDERGRADUATE EDUCATION:

1989 - 1992 University of Jordan, Amman, Jordan,
B.Sc. Phytopathology

GRADUATE EDUCATION:

1992 - 1995 University of Jordan, Amman, Jordan, M.Sc. in
Phytopathology/Bacteriology

1996 - 2002 University of Hohenheim, Stuttgart, Germany,
Ph.D. in Phytomedicine and Molecular Biology

POSTGRADUATE TRAINING

2014 – 2015 Grant 101 & 102 at UTHealth Medical School. A total of 6
months grant writing seminar series for new faculty

2009 - 2013 Postdoctoral Research Associate in Dr. Brian Schutte's lab,
Department of Microbiology and Molecular Genetics,
Michigan State University

2005 - 2009 Postdoctoral Research Associate in Dr. David Arnosti's lab,
Department of Biochemistry and Molecular Biology, Michigan
State University

2003 - 2004 Postdoctoral Research Associate, in Dr. Frances Trail's lab,
Department of Phytopathology, Michigan State University,
East Lansing, MI

ACADEMIC POSITIONS AND HONORS

Positions and Employment

- 2013 - Assistant Professor, School of Dentistry, University of Texas Health Science Center at Houston
- 2013 - Adjunct Faculty, Department of Pediatrics, Medical School, University of Texas Health Science Center at Houston
- 2014 - Regular Faculty, Graduate School of Biomedical Sciences, University of Texas Health Science Center at Houston

Honors and Awards

- 2021 Dean's Excellence Award in the Scholarship of Application 2021, UTHealth School of Dentistry
- 2020 Nominated for a full-membership by the Sigma Xi Scientific Research Honor Society
- 2019 American Association of Anatomists (AAA) 2019 - Early-Career Anatomist Publication Award
- 2019 Dean's Excellence Award in the Scholarship of Discovery 2019, UTHealth School of Dentistry
- 2019 Cover Page of the journal "Developmental Dynamics", March, 2019 highlights our study by Thompson *et al.*, 2019
- 2019 NIH/CSR Early Career Reviewer Program Award
- 2017 Appreciation Certificate from the University of Sagrado Coracao, School of Dentistry for serving as a keynote speaker at their biannual IADR/Brazilian Chapter
- 2016 The Rolanette and Berdon Lawrence Bone Disease Program of Texas Award
- 2016 F1000Faculty recognition for the article, Kin *et al.*, 2016, published in Human Molecular Genetics
- 2015 DAAD Research Ambassador for the German Academic Exchange Service
- 2015 Junior Faculty Award, Society of Developmental Biology, SDB Annual Meeting in Snowbird, Utah
- 2014 President's Award for Leadership and Outstanding Faculty (nominee)
- 2014 Best poster awards at the Gordon Research Conference on Bone and Teeth, Translating signaling mechanisms into therapy at the Hotel Galvez in Galveston, TX.
- 2013 Travel Award from the Gordon Research Conference to attend the Neural Crest and Cranial Placodes Meeting in Stone Hill College in Boston.

- 2012 Cover Page Award from the Developmental Dynamics Journal, March Issue 2012
- 2012 Travel award to attend the Gordon Research Conference (GRS) on Craniofacial Morphogenesis and Tissue Regeneration held on March 17-23, 2012 in Ventura CA
- 2011 Oral presentation award, Society of Craniofacial Genetics and Developmental Biology, Annual ASHG Meeting, Montreal, Canada
- 2010 Oral presentation award, 10th Annual Pediatric Research Day, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, March 25th.
- 2010 Sigma Xi Postdoctoral Fellow award 2010 (\$500).
- 2008 Fellowship award to participate in the Stochastic Models for Intracellular Reaction Networks, Dept. of Mathematics and its Application, University of Minnesota, May 11-13.
- 2008 Travel award to attend the Organization of Biological Networks, Dept. of Mathematics and its Application, University of Minnesota, March 3-7.
- 2006 Best poster award at Midwest Quantitative Biology Conference, Mackinac Island, MI.
- 2001 Travel grant to attend the British Mycological Society Conference, England.
- 2000 IOBC/WPRS-EFPP Spanish Plant Pathological Society, Travel Grant, Sevilla, Spain.
- 1998 COST-Action 830 Fellowship, ETH-Zürich, Switzerland, 1998
- 1996 German Academic Exchange Service (DAAD) scholarship for international outstanding elites, Germany, 1996-2001
- 1994 Teaching fellowship for graduate student, Dept. of Phytopathology, University of Jordan, Jordan 1992-1994.

Honors and Awards by trainees

- 2021 **Kent Healy**, DS4, received the Pierre Fauchard Academy Senior Student Award from the UTHealth School of Dentistry at Houston, at the virtual DDS Senior Awards
- 2020 **Bradley Fox**, undergrad student, received best poster presentation competition award from the UTHealth-CPRIT summer program.
- 2020 **Kent Healy**, DS3, received the Bouquot-To-Go Research Award to present his research and attend the AADR in Washington, DC on March 18-21
- 2019 **Kent Healy**, DS3, received student research grant from AADR-Houston Chapter, UTHealth School of Dentistry, Table Clinic 2019/2020

- 2019 **Fabian Mendoza**, NIH/ NIDCR Summer Dental Student Award, working under guidance of Dr. Janice Lee
- 2019 **Kent Healy**, DS2, 1st place in the Dental student at the 2019 Star of the South Dental Scientific Table Clinic in Houston
<https://dentistry.uth.edu/about/news-media/story.htm?id=4ba5258f-3fe6-4ffe-88d0-c7600cf50bca>
- 2019 **Kent Healy**, DS2, won the Student Competition for Advancing Dental Research and Its Application (SCADA) Award presented by ADA and Dentsply North America
- 2018 **Kent Healy**, DS1, best presentation award at the UTHealth Research day for all dental and dental hygiene students. Over 80 students participated in the research event.
- 2018 **Kent Healy**, DS1, best poster award at the UTHealth research day
- 2017 **Fabian Mendoza**, trainee of the Summer Research Program at UTHealth School of Dentistry from Texas Tech University. He was nominated to AADR Student Research Group Dentsply Sirona Restorative Competition Award. He presented his research project at the AADR meeting.
- 2016 **Meredith Williams**, DS3, Co-investigator with her PI/mentor, Dr. Ariadne Letra. She won 1st place Junior Category of the IADR Unilever Hatton Award. [94th General Session & Exhibition of the IADR](#), June 22-25, Seoul, South Korea.
- 2016 **Katherine Kin**, DS4. She received the Pierre Fauchard Academy Senior Student Award from UTHealth School of Dentistry at Houston
- 2016 **Michael Rasmussen**, DS2, received the Donald C. Kroeger Scholarship for research from the UTHealth, School of Dentistry at Houston.
- 2013 **Katherine Kin**, DS2, won the second-best poster award at the Table Clinic 2014 at the School of Dentistry Houston.
- 2013 **Michael Rasmussen**, DS2 (second-year dental student), awarded the highest prestigious honor the "*National Students Research Group President's Award for Outstanding Student Research*" at the Hinman Student Research Symposium, Memphis, Tennessee, Oct., 25-27, for his oral presentation. He is the first dental student at UTHealth SOD to receive this award.

PEER-REVIEWED PUBLICATIONS (a total of 43 articles and 2 in consideration)

1. Fedik Rahimov, Pekka Nieminen, Priyanka Kumari, Emma Juuri, Tiit Nikopensus, Aarno Palotie, FinnGen, Arja Heliovaara, Kitt Paraiso, Axel Visel, **Walid D. Fakhouri**, Brian C. Schutte, Robert A. Cornell, David Rice. A functional variant in an ectodermal enhancer for *IRF6* is associated with cleft palate in Finns. To be submitted to Nature Genetics

2. Jessica W. Bertol, Shelby Johnston, Rabia Ahmed, Victoria K. Xie, Kelsea M. Hubka, Lissette Cruz, Larissa Nitschke, Marta Stetsiv, Jeremy P. Goering, Paul Nistor, Sally Lowell, Hanne Hoskens, Peter Claes, Seth M. Weinberg, Irfan Saadi, Mary C. Farach-Carson, **Walid D. Fakhouri**. Twist1 interacts with adherens junction proteins during neural tube formation and regulates fate transition in cranial neural crest cells. Submitted to Development for publication.
3. Ramez Hassan Mahmoud, Claudia Cristina Biguetti, Gustavo Baroni Siminonato, Isabela do Carmo Custódio, Raquel Barroso Parra da Silva, Marco Antonio Hungaro Duarte, André Luís Shinohara, Edilson Ervolino, **Walid D. Fakhouri**, Mariza Akemi Matsumoto. Influence of 5-lipoxygenase on the development of osteonecrosis of the jaw lesions in aged female mice. Scientific Reports, 2021, Accepted with major revision
4. Claudia C. Biguetti, Franco Cavalla, Angelica C. Fonseca, Andre P. Tabanez, Danyal A. Siddiqui, Sutton E. Wheelis, Rumio Taga, **Walid D. Fakhouri**, Renato Silva, Danieli C. Rodrigues, Gustavo P. Garlet. Effects of Titanium Corrosion Products on In Vivo Biological Response: a Basis for the Understanding of Osseointegration Failures Mechanisms. Frontiers in Materials, 2021, 8:651970.
5. April Zhang, Hira Aslam, Neha Sharma, Aryeh Warmflash, **Walid D. Fakhouri**. Conservation of epithelial-to-mesenchymal transition in neural crest cell and metastatic cancer. Cells Tissues Organs, 2021, Doi: 10.1159/000516466
6. Shawn Adibi, Davor Seferovic, Gena D. Tribble, Joseph L Alcorn, **Walid F. Fakhouri**. Surfactant protein A and microbiome composition in mucositis patients. Frontiers in Oral Health, 2021, 2:1-17.
7. **Walid D Fakhouri**, Jessica Wildgrube Bertol, Victoria K Xie, Shelby Johnston, Kelsea Hubka, Rachel Keuls, Ronald J Parchem, Mary C Farach-Carson. Regulation of cranial neural crest cell fate by Irf6 and Twist1 interaction. FASEB Journal, 2020, 34, 1-2.
8. Chelsea Wehr, Giancarlo Cruz, Simon Young, **Walid D. Fakhouri**. An insight into Acute Pericoronitis and the need for an Evidence-Based Standard of Care. Dentistry J, 2019, 7(3), 88. (cited 9, IF 2.2)
9. **Walid D. Fakhouri**, Ariadne Letra. Identification of disease risk DNA variations is shaping the future of precision health. Genes (Basel), 2019, 13(6), 450. (cited 5, IF 4.21)
10. Claudia Cristina Biguetti, André Hergesel De Oliva, Kent Healy, Ramez Hassan Mahmoud, Isabela Do Carmo Custódio, Dulce Helena Constantino, Edilson Ervolino, Marco Antonio Hungaro Duarte, **Walid D. Fakhouri**, Mariza Akemi Matsumoto. Medication-related osteonecrosis of the jaws after tooth extraction in senescent female mice treated with zoledronic acid: microtomographic, histological and immunohistochemical characterization. PLoS One, 2019, 14(6): e0214173 (cited 5, IF 3.3)
11. Jake Thompson, Fabian Mendoza, Ethan Tan, Arju S Gaggar, Claudia Biguetti, **Walid D. Fakhouri**. A cleft lip and palate gene, IRF6, is involved in bone mineralization. Dev. Dyn. 2019, 248(3): 221-232. (cited 13, IF 3.78)
12. Kousa YA, Zhu H, **Fakhouri WD**, Lei Y, Kinoshita K, Roushangar RR, Leslie EL, Busch TD, Williams TJ, Chai Y, Amendt BA, Murray JC, Shaw GC, Bassuk AG, Ashley-Koch A, Gregory S, Finnell RH, Schutte BC. The TFAP2A-IRF6-GRHL3 genetic pathway is conserved in neurulation. Human Molecular Genetics, 2019, January 25, doi.org/10.1093/hmg/ ddz010. (cited 22, IF 6.44)



13. Srishti Manocha, Nadia Farokhnia, Sepideh Khosropanah, Jessica W. Bertol, Joel Santiago Junior, **Walid D. Fakhouri**. A systematic review of hormonal and genetic factors involved in the development and nonsyndromic disorders of the lower jaw. Dev. Dyn., 2019, 248(2): 162-172. (cited 14, IF 3.78)
14. Vitor Onuchic, Eugene Lurie, Ivenise Carrero, Piotr Pawliczek, Ronak Y. Patel, Joel Rozowsky, Timur Galeev, Zhuoyi Huang, Robert C. Altshuler, Zhizhuo Zhang, R. Alan Harris, Cristian Coarfa, Lillian Ashmore, Andrew R. Jackson, Jessica W. Bertol, **Walid D. Fakhouri**, Fuli Yu, Manolis Kellis, Mark Gerstein, Aleksandar Milosavljevic, on behalf of the NIH Roadmap Epigenomics project. High-resolution allele-specific epigenomic maps reveal sequence-dependent stochastic switching at gene regulatory loci. Science, 2018, DOI:10.1126/science.aar3146. (cited 48, IF* 37.2)
15. Joel Ferreira Santiago Junior, Claudia Cristina Biguetti, Mariza Akemi Matsumoto Guilherme Abu Halawa Kudo, Raquel Barroso Parra da Silva, Patrícia Pinto Saraiva, **Walid D. Fakhouri**. Can Genetic Factors Compromise the Success of Dental Implants? A Systematic Review and Meta-Analysis. Genes, 2018, 9, 444, doi:10.3390. (cited 12, IF 4.21)
16. Kareem A. Metwalli, Megan A. Do, Kara Nguyen, Sathi Mallick, Katherine Kin, Nadia Farokhnia, Goo Jun, **Walid D Fakhouri**. Interferon Regulatory Factor 6 is necessary for salivary gland and pancreas development, J Dent Res 2018, 97 (2), 226-236. (cited 10, IF 4.6)
17. M. Williams N., Biguetti C., Romero-Bustillos M., Maheshwari K., Dinckan N., Cavalla F., Xiaoming L., Silva R, Akyalcin S, Uyguner Z.O., Vieira A.R., **Fakhouri W.D.**, Letra A. Association Between Colorectal Cancer Polymorphic Variants and Isolated Tooth Agenesis. Scientific Reports, 2018, 8, doi:10.1038/s41598-018-21368-z. (cited 13, IF 4.85)
18. Jamie Jiang, Jessica W. Bertol and **Walid D. Fakhouri**. Mandibular Explant Assay for Investigating Extrinsic Stimuli on Bone and Cartilage Development. Bio-protocol. 2017, DOI:10.21769 (cited 7)
19. **Walid D Fakhouri**[§], Kareem Metwalli, Ali Naji, Sarah Bakheit, Angela Quispe-Salcedo, Larissa Nitschke, Youssef A Kousa, Brain C Schutte. Intercellular genetic interaction between *Irf6* and *Twist1* during craniofacial development. Scientific Reports, 2017, DOI:10.1038/s41598-017-06310. (cited 21, IF 4.85) (§ = corresponding author)
20. Yadlapati M, Biguetti C, Cavalla F, Nieves F, Bessey C, Bohluli P, Garlet GP, Letra A, **Fakhouri WD**, Silva RM. Characterization of a Vascular Endothelial Growth Factor-loaded Bioresorbable Delivery System for Pulp Regeneration. J Endod. 2017 Jan;43(1):77-83. (cited 46, IF 3.18)
21. Kin K, Shanker M, Manon V, Young J and **Fakhouri WD**. Are dental students ready for the Nextgeneration Healthcare? Journal of Dentistry and Oral Disorders, 2016, 2(4):1020-1021. (cited 2)
22. Katherine Kin and **Walid D. Fakhouri**. Genes on or off! How regulatory DNA variations disrupt the balance of P53 and cMYC binding. Atlas of Science, May 16, 2016.
23. Katherine Kin, Xi Chen, Manuel Gonzalez-Garay, **Walid D Fakhouri**. The effect of non-coding DNA variations on P53 and cMYC competitive inhibition at cis-overlapping motif. Hum Mol Genet, 2016, 25(8): 1517-27. (cited 7, IF 6.44).

* = A recommendation written by F1000 Faculty Dr. Evans to indicate the significance of this article in its field. Evans K and Ryan N: F1000Prime Recommendation of Evaluation [Kin K et al., *Hum Mol Genet* 2016, 25(8): 1517-27], 15 Apr 2016; DOI: 10.3410/f.726172772.

24. Adeeb Sakkalaek, Nora J Klein, **Walid D Fakhouri**. Co-occurrence of Natal Teeth with Rapidly Involuting Congenital Hemangioma. A Case Report. Journal of Medical Cases, 2016 7(4):120-22.
25. Leslie EL, Taub MA, Liu H, Steinberg KM, Koboldt DC, Zhang Q, Carlson JC, Hetmanski JB, Wang H, Larson DE, Fulton RS, Kousa YA, **Fakhouri WD**, Naji A, Ruczinski I, Begum F, Parker MM, Busch T, Standley J, Rigdon J, Hecht JT, Scott AF, Wehby GL, Christensen K, Czeizel AE, Moreno LM, Deleyiannis FW, Schutte BC, Wilson RK, Lidral AC, Cornell RA, Weinstock G, Beaty TH, Marazita ML, Murray JC. Identification of functional variants for cleft lip with or without cleft palate in or near *PAX7*, *FGFR2*, and *NOG* by targeted sequencing of GWAS loci. 2015. Am J Hum Genet. 2015 Feb 17. doi: 10.1016. (cited 126 times, IF 14.17)
26. Choi K, Haddad Y, **Fakhouri WD**. Analysis of the relationship between micrognathia and cleft palate: a systematic review. Cleft Palate-Craniofacial Journal. 2015; 52(5):1-11. (cited 15, IF 1.23)
27. Nishtha Joshi, Ahmad Hamdan, **Walid D Fakhouri**. Skeletal malocclusion; a developmental disorder with a life-long morbidity. J Clinical Medicine Research. 2014; 6(6): 399-408. PubMed PMID: 25247012. (cited 87)
28. **Fakhouri WD**, Rahimov F, Attanasio C, Kouwenhoven EN, Ferreira De Lima RL, Felix TM, Nitschke L, Huver D, Barrons J, Kousa YA, Leslie E, Pennacchio LA, Van Bokhoven H, Visel A, Zhou H, Murray JC, Schutte BC. An etiologic regulatory mutation in *IRF6* with loss- and gain-of-function effects. Human Molecular Genetics. 2014; 23(10): 2711-20. PubMed PMID: 24442519. (Cited 50, IF 6.8)
29. Ragina NP, Schlosser K, Knott JG, Senagore PK, Swiatek PJ, Chang EA, **Fakhouri WD**, Schutte BC, Kiupel M, Cibelli JB. Downregulation of *H19* improves the differentiation potential of mouse parthenogenetic embryonic stem cells. Stem Cells and Development. 2012; 21(7): 1134-44. PubMed PMID: 21793658. (Cited 32, IF 3.73)
30. Chiu C, **Fakhouri W**, Liu N, Dayringer E, Dresch J, Arnosti D. A two-scale mathematical model for DNA transcription. Mathematical Biosciences. 2012; 236(2): 132-40. PubMed PMID: 22343054. (Cited 3, IF 1.489)
31. **Fakhouri WD**, Rhea L, Du T, Sweezer E, Morrison H, Fitzpatrick D, Yang B, Dunnwald M, Schutte BC. MCS9.7 enhancer activity is highly, but not completely, associated with expression of *Irf6* and *p63*. Developmental Dynamics: an official publication of the American Association of Anatomists. 2012; 241(2): 340-9. PubMed PMID: 22113860. (cited 35, IF 2.376)
32. Letra A, **Fakhouri W**, Fonseca RF, Menezes R, Kempa I, Prasad JL, McHenry TG, Lidral AC, Moreno L, Murray JC, Daack-Hirsch S, Marazita ML, Castilla EE, Lace B, Orioli IM, Granjeiro JM, Schutte BC, Vieira AR. Interaction between *IRF6* and *TGFA* genes contribute to the risk of nonsyndromic cleft lip/palate. PLoS One. 2012; 7(9): e45441. PubMed PMID: 23029012. (Cited 54, IF 3.54)
33. **Fakhouri WD**, Nuñez JL, Trail F. Atrazine binds to the growth hormone-releasing hormone receptor and affects growth hormone gene expression. Environmental Health Perspectives. 2010; 118(10): 1400-5. PubMed PMID: 20529762. (cited 25, IF 8.44)

34. **Fakhouri WD**, Ay A, Sayal R, Dresch J, Dayringer E, Arnosti DN. Deciphering a transcriptional regulatory code: modeling short-range repression in the *Drosophila* embryo. Molecular Systems Biology EMBO Nature. 2010; 6:341. PubMed PMID: 20087339. (cited 136, IF 12.39)
35. Sperber GH. The society of craniofacial genetics. Abstracts of the 2010 annual meeting. Am J Med Genet. Part A 9999, 1-8 (Abst. pp 2-3).
36. Ay A*, **Fakhouri WD***, Chiu C, Arnosti DN. Image processing and analysis for quantifying gene expression from early *Drosophila* embryos. Tissue Engineering. Part A. 2008; 14(9): 1517-26. PubMed PMID: 18687054 (*=Equal contribution). (cited 13, IF 4.448)
37. **Fakhouri WD**, Walker F, Armbruster W, Buchenauer H. Detoxification of fusaric acid by a nonpathogenic *Colletotrichum* sp. Physiological and Molecular Plant Pathology. 2003; 63, 263-269. (cited 24, IF 1.987)
38. **Fakhouri W.**, Neemann, M, Walker F, Buchenauer H. Application of fluorescent pseudomonad in combination with acibenzolar-S-methyl induces disease resistance. Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz. 2004; 9 (1), 494-505. (cited 2, IF 0.48)
39. **Fakhouri W.**, Buchenauer H. Characteristics of fluorescent pseudomonad isolated towards controlling of tomato wilt caused by *Fusarium oxysporum* f.sp. *lycopersici*. Journal of Plant Diseases and Protection. 2003; 3 (1), 143-156. (cited 23, IF 0.48)
40. **Fakhouri WD**, Buchenauer H. Enhancement of population densities of fluorescent pseudomonads in the rhizosphere of tomato plants by addition of acibenzolar-S-methyl. Canadian Journal of Microbiology. 2002; 48, 1069-1075. (cited 3, IF 1.439)
41. **Fakhouri W**, Walker F, Vogler B, Armbruster W, Buchenauer H. Isolation and identification of N-mercapto-4-formylcarbostyryl, an antibiotic produced by *Pseudomonas fluorescens*. Phytochemistry. 2001; 58 (8), 1297-1303. PubMed PMID: 11738425 (Cited in "Hot Off the Press" by the Royal Society of Chemistry, UK). (cited 53, IF 3.278)
42. **Fakhouri W.**, Kang Z., Buchenauer H. Ultrastructural studies on the mode of actions of fluorescent pseudomonads alone and in combination with acibenzolar-S-methyl effective against *Fusarium oxysporum* f. sp. *lycopersici* in tomato plants. Journal of Plant Diseases and Protection. 2001; 108 (5), 513-529. (cited 8, IF 0.48)
43. **Fakhouri W.**, Buchenauer H. Establishment in tomato plants and mechanisms of action of fluorescent pseudomonads antagonistic to the Fusarium wilt pathogen. In: Duffy B.K., Rosenberger U. and Defago G. (eds). Molecular Approaches in Biological Control, IOBC/WPRS Bulletin. 1998; 21 (9), 61-64. (cited 2)
44. **Fakhouri W.**, Khlaif H., Abu-Garbieh W.I. Interaction between *Meloidogyne javanica* and *Agrobacterium tumefaciens* on tomato plants. Journal of Nematology. 1996; 14 (1), 49-54. (cited 4, Impact factor 1.22)
45. **Fakhouri W**, Khlaif H, Al-Eisawi D. Histological studies in stem and root cross-sections of tomato seedlings artificially inoculated with *Agrobacterium tumefaciens*. Advances in Histological Studies, 1996; 10, 59-65.

* IF = Impact Factor

BOOK CHAPTER

Schutte BC, **Fakhouri WD**, Zemke D. Regulatory mutations leading to cleft lip and palate. p95-123. A book chapter in: "Gene Regulatory Sequences and Human Diseases". Editor Nadav Ahituv. Publisher: Springer. 2012, 293 pp.

RESEARCH SUPPORT

Ongoing research support

American Academy of Implant Dentistry Foundation **Soldatos** (PI) 02/2020-01/2022
Walid Fakhouri: Co-I
Award: \$25,000
Project: Cellular effects of high implant insertion torque via conventional preparation versus osseous densification using fresh human cadaver model.

FAPESP # 2019/16067-3 **Matsumoto** (PI) 09/2020-8/2022
Walid Fakhouri: Co-I
Award: \$100,000 (Brazilian Real)
Influence of nitrogen-containing bisphosphonates (n-BPs) on inflammatory and endocrine factors: basis for the comprehension of osteonecrosis of the jaws related to nBPs pathophysiology

Pending research support

R01, NIH/NIDCR **Fakhouri** (PI) 09/2021-08/2026
Budget: \$2,010,000
Regulation of cell fate during early craniofacial development (not funded this cycle, submission on Oct. 15, 2021)

R15, NIH/NIGMS (renewal) **Fakhouri** (PI) 07/2019-06/2021
Budget: \$499,000
Modeling of pathological significance of non-coding DNA variants in cis-overlapping motifs in embryonic stem cells (initial submission was discussed on scored, resubmission on Oct. 05, 2021)

R03, NIH-DE027155-01 **Fakhouri** (PI) 11/2018-10/2020
Budget: \$310,000
Mechanistic role of IRF6 in salivary gland development and maturation (discussed and scored in first and resubmission, might get funded in the 2021 cycle)

AAA 2020 Fellows Grant Award program **Fakhouri** (PI) 12/2020-11/2021
Budget: \$25,000 (not funded)

John S. Dunn Foundation Collaborative Research Award **Fakhouri** (Co-PI)
09/2021-08/2023
Budget: \$100,000
Modeling the impact of TWIST1 phosphorylation and miR-10 family in regulating cell fate and migration of cranial neural crest cells

Previous and Completed research support

R15, NIH-GH122030-01 **Fakhouri (PI)** 10/2016-02/2021

Award: \$476,364.00

Project: Developing a predictive model to identify pathological Non-coding DNA variations in cis-overlapping motifs (CisOMs) of P53 and cMYC in Cancer. The goal of this proposal is to develop a quantitative model to identify and predict the effect of functional non-coding DNA variations within regulatory elements on target gene expression in cancer cells. (completed this summer)

AADR-Houston Chapter, UTHealth SOD **Fakhouri (PI)** 10/2019-04/2021

Kent Healy (DS3)

Award: \$750.0

A small grant for my dental student Kent Healy, 3rd year DS, to investigate the role of IRF6 in osteonecrosis of the jaw induce by bisphosphonates.

Dental Trade Alliance Foundation (DTA) **Adibi (Co-PI)** 10/2017-09/2019

Walid Fakhouri (Co-PI)

Award: \$25,000

Improving Oral Health and Reducing Pain Due to Mucositis in Compromised Dental Patients

American Association of Endodontists **Silva (PI)** 06/2015-05/2017

Walid Fakhouri (Co-I)

Award: \$10,870

Project: Dental pulp regeneration using a vascular endothelial growth factor-loaded bioresorbable delivery system

The goal of this translational project was to develop a biocompatible and biodegradable delivery system loaded with growth factor(s) to improve the healing process of dental pulp regeneration in patients with necrotic dental pulp.

Rolanette and Berdon Lawrence Bone Disease Program of Texas **Fakhouri (PI)**

07/2016-06/2017

Award: \$45,000

Project: The mechanism of IRF6 and TWIST1 genetic interaction in craniofacial bone development

The goal of this project was to understand the pathophysiology of bone abnormalities in mutant murine embryos that are compound heterozygous for *Irf6* and *Twist1* and to investigate the role of Twist1 phosphorylation in bone development.

R01 NIH/NIGMS **David Arnosti (PI)** 07/2006-06/2010

Project: Molecular analysis of transcriptional repression

Walid Fakhouri (postdoctoral research associate, 2005-2009)

INVITED REVIEWER FOR INTERNATIONAL GRANT PROPOSALS:

- Division Biology and Medicine, **Swiss National Science Foundation**, Bern, Switzerland. Reviewed a grant proposal QV2UXP3MW

- The Medical Research Council, **UK Research and Innovation**. Reviewed a grant proposal MR/T046899/1.
- Invited to serve as a reviewer by the **Israel Science Foundation** to evaluate a research proposal in biomedical field

INVITED REVIEWER FOR NATIONAL GRANT PROPOSALS:

- Served as a grant reviewer for the GWIS (**Graduate Woman in Science**) National Fellowship 2021
- Served as a NIH/SREA reviewer on the **NIGMS** study section for 2020
- Served as a reviewer on the **NIH study section** Genetic Variation and Evolution (GVE) in 2019
- Served as a reviewer for an **NSF** grant proposal (#1354500) submitted to Evolution, Mechanism and Development program. The request came from Dr. Steven Klein, a Program Director at NSF in 2013

INVITED SPEAKER AT INTERNATIONAL MEETINGS

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| 2017 | Keynote speaker at the IADR/Brazilian Section of the Odontology and Oral Biology Scientific Meeting in October at Sagrado Coração University School of Dentistry in Bauru, Brazil. I presented my research on "Micrognathia and <i>Irf6/Twist1</i> genetic interaction during craniofacial bone development." |
| 2011 | Annual Meeting of Craniofacial Genetics and Development Biology , Montreal Canada, October 10, 2011 |
| 2000 | 6th IOBC/WPRS-EFPP Biocontrol Agents ; modes of action and their interaction with other means of control, Sevilla, Spain, Nov. 30-Dec. 3 |
| 1999 | XIVth International Plant Protection Congress (IPPC) , Plant Protection Towards the third Millennium-where Chemistry Meets Ecology, Jerusalem, July, 25-30 |

INVITED SPEAKER AT NATIONAL MEETINGS

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| 2020 | Speaker at the International Experimental Biology EB-2020 , the oral sessions of AAA, San Diego, CA (conference was held virtually due to the COVID-19 pandemic) |
| 2016 | Speaker at the Bone Disease Program, Marriott Hotel, Texas Medical Center , Genetic interaction between <i>Irf6</i> and <i>Twist1</i> during mandibular development |

- 2012 **Gordon Research Conference** on Craniofacial Morphogenesis and Tissue Regeneration held on March 17-23, in Ventura CA
- 2010 **10th Annual Pediatric Research Day**, Stem Cell Research-Promise for Pediatrics, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 25, 2010
- 2010 **9th Annual Pediatric Research Day**, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 12, 2010
- 2008 **Organization of Biological Networks**, Dept. of Mathematics and its Application, University of Minnesota, Mar. 3-7

INVITED SPEAKER AT REGIONAL / LOCAL MEETINGS

- 2020 Speaker at the **Diagnostic and Biomedical Seminar Series** at UTHealth School of Dentistry on Feb. 27th. My talk entitled: "Regulation of Cell Fate at Early Craniofacial Development".
- 2019 Speaker at the **Pediatric Research Center-Joint Retreat** at UTHealth School of Dentistry on Feb. 27th. My talk entitled: "Regulation of Neural Crest Cell Fate at Early Craniofacial Development".
- 2019 Speaker at the **Bone Disease Club** at the Third Coast seminar room at the Texas Medical Center, Oct., 12. Title of my talk is "Regulation of Cell Fate During Cranial Neural Crest Cell Formation".
- 2018 Speaker at the **Human Genetics Center, School of Public Health** on Monday April, 02, titled "Diseases Predictive Model for etiological non-coding DNA variants in cancer".
- 2017 Presented my research at the **Diagnostic and Biomedical Seminar Series** at UTHealth School of Dentistry on Feb. 27th. My talk entitled: "Personalized Medicine: Computational Model to Identify Disease Risk Variants"
- 2016 Presented at the **Pediatric Research Center Symposium**, Cooley Center, The Function of IRF6 in salivary gland development, Thursday, June 16
- 2016 Speaker at the **Greater Houston Dental Hygienist's Society (GHDHS)**, Norris Conference Center, Houston, TX. Title: "Genetics Omics, Pharmacogenomics: Toward Personalized Medicine"
- 2015 Talked at the **Exchange Information Seminar Series** organized by the Department of Genetics at MD Anderson at Department of Genetics at BSRB, on Jan., 26th

- 2015 Invited to give a talk at the **Human Genetics Center, School of Public Health** on Monday Oct. 19
- 2014 Hold a presentation at the **Current Topics Weekly Seminar** organized by the Human Molecular Genetics Program for graduate students and faculty of GSBS on Dec, 10, 2014 at MD Anderson Research Institute ACB1.2345
- 2013 Presented at the **Student Research Group Meeting**, Oct., 30 at the School of Dentistry Houston. Title was “My evolved research from bacteria to human disorders”
- 2013 Talked at the **Pediatric Research Center**, UTHealth Medical School, Dec., 9th. Title was “Genetic risk factors in the syndromic form of cleft lip and palate”

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS

INTERNATIONAL

- International Association of Dental Research (IADR)
- American Society of Human Genetics (ASHG)
- Genetics Education Outreach Network (GEON)
- Research Ambassador for the German Academic Exchange Service (DAAD) from 2016 - current

NATIONAL

- American Association of Dental Research (AADR)
- American Dental Educational Association (ADEA)
- Society of Craniofacial Genetics and Developmental Biology
- Sigma Xi, honorary scientific research society
- National Postdoctoral Association (NPA)
- American Society of Developmental Biology (SDB)
- American Association of Anatomists (AAA)

REGIONAL/LOCAL

- AADR, Houston Chapter
- Bone Disease Program of Texas
- UTHealth SOD Center for Craniofacial Research

TEACHING RESPONSIBILITIES

Course Director

- 2020 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”. Each dental student had worked on an independent research project and they presented their work at the Summer Research Student Showcase.
- 2019 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”. Each dental student had worked on an independent research project that resulted in one peer-reviewed articles in PLoS One.
- 2018 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”. Five DS1 students have registered for the course. Yuhong Lin, Casandra Barnes, Kent Healy, Talal Beidas and Quincy Walker.
- 2017 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”.
- 2016 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”. Each dental student had worked on an independent research project that resulted in three peer-reviewed articles.
- 2015 Elective course, DBEC 5908, titled “**Evaluation and Presentation of Scientific Research**”. Four dental students took this course. Victoria Manon (DS2), Manish Shanker (DS3), James Young (DS2) and Katherine Kin (DS3). In this course, all students had work on a collaborative research project related to dental clinical research. They published a peer-reviewed article in which Katherine Kin was the first author.

Continuing Dental Education Course

- 2018-2019 Course title: “Next Generation Healthcare: will dentists ride the wave of personalized medicine?”
I developed an educational module together with **Dr. Ariadne Letra** for dentists and healthcare professionals. This course is designed to inform participants about Next Generation Healthcare and how new technologies in genetics and human genome sequences pave the way for personalized medicine, also known as precision healthcare. The course occurred on Friday, October 19, 2018. We have planned to offer this course last year, but due to the pandemic, we postponed it.

Teaching Instructor

- 2021 **Clin 3017** Diagnosis and Treatment Planning Presentation for DS3s
- 2020 **Scientific Writing**, GS21-1152, for 2nd year pre-candidacy students, UHealth Graduate School of Biomedical Sciences (GSBS)

- 2020 **Small Group facilitator, Clin Apps I**, DENS1544, UTHealth School of Dentistry.
- 2020 **Oral Histology and Embryology**, DENF1511, First year dental hygiene students, UT School of Dentistry
- 2020 **Oral Biology I**, DENF1511, First year dental students, UT School of Dentistry. Taught embryology and birth defects section.
- 2020 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester, UT School of Dentistry Houston
- 2020 **Clin 3017** Diagnosis and Treatment Planning Presentation for DS3s
- 2019 **Small Group facilitator, Clin Apps II**, DENS1544, UTHealth School of Dentistry
- 2019 **Clin 3017** Diagnosis and Treatment Planning Presentation, a biomedical sciences core course for DS3s
- 2019 **Oral Histology and Embryology**, DENF1511, First year dental hygiene students, UT School of Dentistry
- 2019 **Oral Biology I**, DENF1511, First year dental students, UT School of Dentistry. Taught embryology and birth defects section.
- 2019 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester for residents, UT School of Dentistry Houston
- 2018 **Small Group facilitator, Clin Apps I**, DENS1544, UTHealth School of Dentistry.
- 2018 **Oral Histology and Embryology**, DENF1511, First year dental hygiene students, UT School of Dentistry
- 2018 **Oral Biology I**, DENF1511, First year dental students, UT School of Dentistry. Taught embryology and birth defects section.
- 2018 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester, UT School of Dentistry Houston
- 2018 **Interdisciplinary Research Seminar** for orthodontic residents, DBPG 1009/1011
- 2018 **Small Group facilitator, Clin Apps II**, DENS1544, UTHealth School of Dentistry
- 2017 **Oral Biology I**, DENF1511, First year dental students, UT School of Dentistry. Taught embryology and birth defects section.

- 2017 **Oral Histology and Embryology**, DENF1511, First year dental hygiene students, UT School of Dentistry
- 2017 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester, UT School of Dentistry Houston
- 2017 **Small Group facilitator, Clin Apps I**, DENS1544, UTHealth School of Dentistry.
- 2016 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester, UT School of Dentistry Houston
- 2016 **Small Group facilitator, Clin Apps I**, DENS1544, UTHealth School of Dentistry
- 2016 **Interdisciplinary Research Seminar** for orthodontic residents, DBPG 1009/1011
- 2016 **Small Group facilitator, Clin Apps II**, DENS1544, UTHealth School of Dentistry
- 2015 **Oral Biology-Development, Structures and Function**, DBPG1110-100, Fall Semester, UT School of Dentistry Houston
- 2015 **Small Group facilitator, Clin Apps II**, DENS1544, UTHealth School of Dentistry
- 2014 **Oral Biology-Development, Structures and Function**, DBPG1110-100, UT School of Dentistry Houston
- 2014 **Interdisciplinary Research Seminar** for orthodontic residents, DBPG 1009/1011
- 2014 **Small Group facilitator, Clin Apps II**, DENS1544, Facilitator, UTHealth School of Dentistry
- 2013 **Oral Biology I**, DENF1511, First year dental students, UT School of Dentistry
- 2013 **Oral Biology-Development, Structures and Function**, DBPG1110-100, UT School of Dentistry Houston
- 2010 **MMG892 Seminar** (Enhancers in Development and Diseases)
- 2009 **Human Molecular Genetics 890**, taught part of the course
- 2008 **Pathways to Scientific Teaching Seminar** Course, College of Natural Science

SERVICE TO INTERNATIONAL / NATIONAL COMMITTEES

- 2021 Invited judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston. The symposium was held virtually and I judged one of the oral presentation sessions.
- 2019 Research Ambassador and Member, German Academic Exchange Service (DAAD)
- 2019 Invited judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston
- 2017 Invited judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston
- 2016 Invited judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston
- 2015 Research Ambassador and Member, German Academic Exchange Service (DAAD)
- 2012 Member, Genetic Education for K12 organized by American Society of Human Genetics

SERVICE TO UTHEALTH AT HOUSTON

Local / Regional

- 2019 **Judge** for the graduate student oral presentations at the GSBS Cancer Biology Program Retreat, San Luis, Galveston
- 2018 **Judge** for graduate student oral presentations at the GSBS Cancer Biology Program Retreat, San Luis, Galveston
- 2018 **Member** of the Cancer Biology Program of the MD Anderson/UTHealth Graduate School of Biomedical Sciences
- 2018 **Judge** for the graduate student oral presentations at the GSBS of the Epigenetics and Genetics Program and a member of the outreach committee of the MD Anderson/UTHealth Graduate School of Biomedical Sciences
- 2018 **Member** of the Epigenetics and Genetics Program and a member of the outreach committee of the MD Anderson/UTHealth Graduate School of Biomedical Sciences
- 2018 Represented the German DAAD as Research Ambassador at the **GSBS Career Development Series. Research Careers in Germany. Followed by A Networking Event, on Tuesday, Feb. 13.**
- 2017 **Chairperson of Designated Review Committee** on multiple committee assignments at the Animal Welfare Committee (AWC)

- 2017 **Member** of the Epigenetics and Genetics Committee of the Graduate School of Biomedical Sciences
- 2016 **Chairperson of Designated Review Committee** on multiple committee assignments to the Animal Welfare Committee (AWC)
- 2015 **Chairperson of Designated Review Committee** on multiple committee assignments to the Animal Welfare Committee (AWC)
- 2015-2017 **Representative of the UTHealth School of Dentistry** to standing Animal Welfare Committee (AWC)
- 2015 **Member** of the Human Molecular Genetics Program
- 2014 **Member** of the Animal Welfare Committee
- 2013 **Member** of the Bone and Cartilage Initiative Committee of Texas

SERVICE TO UTHEALTH SCHOOL OF DENTISTRY AT HOUSTON

- 2019 **Chair** of the search committee for the Anatomy faculty position at the UTHealth School of Dentistry
- 2018 - current **Member** of the Faculty Development and Promotion Committee
- 2018 **Member** of the Continuing Educational Courses Committee
- 2017 **Chair** of the search committee for the Anatomy faculty position at the UTHealth School of Dentistry
- 2017 **Moderator** of the Tooth and Bone: Clinical Assessment and Repair. Student Research Showcase, October
- 2017 **Member** of the Epigenetics and Genetics Committee for Incoming Graduate Student to GSBS
- 2017 **Member**, a search committee for Director of Graduate Program of the Endodontic Department
- 2017 **Member** of the Faculty Development and Promotion Committee
- 2016 **Member** of the Continuing Educational Courses Committee
- 2017 **Organizer** of a Joint lab Meeting for Fakhouri, Letra and Silva labs
- 2016 **Member** of the Faculty Development and Promotion Committee
- 2016 **Member** of the Continuing Educational Courses Committee

- 2016 **Member**, search committee for Endodontic faculty position
- 2016 **Chair**, UTHealth School of Dentistry, Research Committee
- 2016 **Judge** for the Bouquot Research award
- 2016 **Judge** for the Hinman Dental Student Research Symposium award
- 2016 **Judge** for the Houston Chapter AADR award
- 2016 **Judge**, UTSD Research Showcase for student presentations and posters
- 2016 **Judge** for the Table Clinic presentations
- 2016 **Invited judge** to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston
- 2015 **Member**, served on the interview committee for the oral pathology faculty position at the Department of Diagnostic and Biomedical Sciences.
- 2015 **Vice-Chair** of the Research Committee.
- 2015 **Member**, served on the interview committee for the oral pathology faculty position at the Department of Diagnostic and Biomedical Sciences.
- 2015 **Judge** of the 18th Annual HMG symposium, SCRB2
- 2015 **Judge** for the Bouquot-To-Go award
- 2015 **Judge** for the Table Clinic presentations
- 2014 **Member**, Continuing Education Committee
- 2014 **Vice Chair**, Research Committee
- 2014 **Moderator**, UTSD Research Showcase
- 2014 **Judge** for the Table Clinic presentations
- 2014 **Mentor and Judge**, Hinman Meeting Symposium
- 2013 **Member**, Search committee for research faculty
- 2013 **Member**, Research Committee
- 2013 **Member**, Craniofacial Center for Strategic Planning Committee

Facilitator, small group presentation for DS2 on genetic disorders

EDITORIAL POSITION and REVIEWER OF CLINICAL AND SCIENTIFIC JOURNALS

- Archives of Environmental and Occupational Health (Ad hoc reviewer)
- BMC Genetics (reviewer)
- BMC Medical Genetics (reviewer)
- Cancers (reviewer)
- Central European Journal of Biology (Ad hoc reviewer)
- Cells (ad hoc reviewer)
- Developmental Biology (reviewer)
- Gene Expression Patterns (reviewer)
- Genes (***Guest Editor of a Special Issue, Impact Factor 3.6***)
- International Journal of Molecular Sciences (reviewer)
- International Journal of Pathology and Clinical Research (reviewer)
- Journal of Cell and Animal Biology (reviewer)
- Journal of Dental Research (Ad hoc reviewer)
- Journal of Oral Biology (***Editorial Board Member and Reviewer***)
- Medical Hypotheses (reviewer)
- Physiological Genomics (reviewer)
- Progressive Science
- Scientific Reports by Nature (reviewer)
- The Cleft Palate-Craniofacial Journal (ad hoc reviewer)
- Tissue Engineering (reviewer)
- Medical Hypotheses (reviewer)
- Annals of Translational Medicine (reviewer)
- Cells (***Editorial Board Member and reviewer, Impact factor 5.1***)
- International Journal of Molecular Sciences (reviewer)
- Annals of Translational Medicine
- Human Genetics
- PLoS One
- Disease Model and Mechanisms (The Company of Biologists)
- Plastic and Aesthetic Research (2020/2021)
- Biophysical Journal (2020/2021)
- Dentistry Journal (2020/2021)
- Journal of Applied Oral Science (2020/2021)
- Frontiers in Genetics (2021)
- Nucleic Acids Research (2021)

- Journal of Personalized Medicine (2021)

ACADEMIC ACTIVITIES AND SERVICES

International Scholarly Activities

- 2017 Invited to present my research at the **School of Dentistry, Sao Paulo** University, as well as at the **Sagrado Coração University** School of Dentistry in Bauru, Brazil.
- 2013 Served as a judge for the **Sigma Xi Student Research Showcase**. Contribution for over 200 students in North America, South America, Europe and Asia were evaluated and judged.

National Scholarly Activities

- 2020 A judge for the **ASHG** annual DNA day Essay Contest for K-12 students and teacher.
- 2019 Serves as a mentor at the Meet a Mentor Over Lunch, organized during the American Society of Human Genetics (ASHG)
- 2018 Associate Editor for the Journal of Oral Biology, Avens Publishing Group
- 2018 Served as a Guest-Editor for a special issue by the journal "Genes". The title of the special edition is "DNA Variations in Evolution and Human Diseases"
- 2017 Session Chair at the American Society of Biochemistry and Molecular Biology (ASBMB), special symposium, Stowers Institute, Kansas City, Kansas.
- 2017 Hold a presentation at the Department of Diagnostic and Biomedical Sciences Seminar Series, Feb. 2017, title: "Personalized Medicine: A Computational Model to Identify Disease Risk Variants"
- 2016 Judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston.
- 2015 A judge for the **American Society of Human Genetics** annual DNA day Essay Contest for K-12 students and teacher.
- 2014 Served as a mentor in the **Leadership Mentoring Project** by national postdoctoral association.
- 2005-09 Served as a secretary for the Postdoctoral Association at the Michigan State University (**MSU-PDA**). I also served as a corporate liaison for the MSU Summer Symposium on Transcriptional

Regulation and Systems Biology, July, 18-20, 2008,
(<http://www.bmb.msu.edu/GEDD/symposium08/index.html>)

- 2007 Postdoctoral representative of MSU at the **National Postdoctoral Association** (NPA) Annual Meeting at the University of Berkeley, CA
- 2007 Postdoctoral representative of MSU at the **Wisconsin Medical School Symposium**, University of Wisconsin-Madison, WI

Local and Regional

- 2018 - 2019 Member of the Communication Committee for the Genetics and Epigenetics Program, UTHealth-MD Anderson GSBS
- 2020 Served as a judge for the graduate student oral presentation at the Cancer Biology retreat at Galveston
- 2020 Served as a judge for the poster presentation by graduate students and postdocs at the Cancer Biology program retreat
- 2019 Judge for poster presentations at the Bone Disease Program of Texas, Retreat Meeting, May 10, 2019
- 2019 Served as a judge for the graduate student oral presentation at the Cancer Biology retreat at Galveston
- 2019 Served as a judge for the poster presentation by graduate students and postdocs at the Cancer Biology program retreat
- 2019 Invited to give a talk at the Pediatric Research Center and Center for Craniofacial retreat at the Cooley center
- 2017 Presented my research at the Cancer Biology Graduate Program Retreat. Moody Gardens, Galveston, Oct., 20-21, 2017.
- 2018 Graduate School of Biomedical Sciences Career Development Series. Research Careers in Germany. I was invited to provide educational and research information about my own PhD experience in Germany. Feb. 13, 2018.
- 2017 Presented my research at the Cancer Biology Graduate Program Retreat. Moody Gardens, Galveston, Oct., 20-21, 2017.
- 2016 Participated in the White House Cancer Moonshot: Remarks by the Vice President of the US Joe Biden. Organized by Rice University's Baker Institute, Oct. 16th.
- 2014 Participated in the **Rice Undergraduate Research Symposium** to judge the quality of 6 posters for three best poster awards

UTHealth - Houston

- 2018 Presented my lab research projects at the Genetic and Epigenetic Retreat of the Graduate School of Biomedical Sciences, Sept., 22, La Torretta, Texas
- 2018 Served on the interview committee for an assistant professor position at the UTHealth Pediatric Research Center at the Medical School.
- 2017 Invited Dr. Amy Merrill-Brugger from University of Southern California (USC) to present her research at the Pediatric Research Center, Medical School on March 17th.
- 2016 Served on the interview committee for an assistant professor position at the UTHealth Pediatric Research Center at the Medical School.
- 2016 Attended the Mentoring Workshop for Facilitators organized by UTHealth and MD Anderson Cancer Research Institute, April 5th-6th.
- 2016 Academic Career Day being held on Tuesday February 16, 2016 in the Cooley University Life Center. "Faculty Behind the Scenes – What do I do in a day?" session.
- 2015 Medical School Research Retreat at the Institute of Molecular Medicine, Sarofim Research Building, October, 8.
- 2015 Judged posters of graduate students and postdocs at the 18th **Annual Symposium of Human Molecular Genetics Program** on April 10 at the GSBS building.
- 2015 Invited and introduced local and non-local speakers to the **Pediatric Research Center** monthly seminar at UTHealth Medical School in room MSB.100B.
- 2014 Joined the **Human Molecular Genetics Program** at GSBS on Oct., 15, 2014
- 2014 Judged three posters at the **Medical School Research Retreat** at the Institute of Molecular Medicine, Sarofim Research Building, October, 8.
- 2014 Invited Dr. **Samantha Brugmann**, Assistant Professor at the department of Plastic Surgery, Cincinnati Children's Hospital on May 16th, 2014 to UT Medical School. The title of her talk was "Uncovering the molecular etiology of craniofacial ciliopathies"
- 2014 Invited Dr. **David Nelson**, Prof., Baylor College of Medicine, Dept. of Human Genetics to talk at the PRC monthly seminar on Feb., 21, 2014 at the Medical School. The title of his talk was "Fragile X syndrome, 70 years of surprises"

UTHealth School of Dentistry

- 2021 Served as an interviewer for the ASDA's Predental Mock Interview Day organized by Hannah Balcezak, President-Texas-Houston ASDA
- 2019 Judged posters presented at the **Summer Research Showcase**. The event was organized at The Cooley Center at the School of Dentistry on Oct.
- 2017 Presenter at the **Center for Craniofacial Research** program organized by the research office.
- 2017 Judged posters of dental students who participated in summer research program at UTHealth School of Dentistry at Houston. Symposium was organized at Cooley Conference Center.
- 2017 Judged abstracts of dental students for **Bouquot-to-go Scholarship Award** to cover the cost of the winner to attend the AADR meeting in San Francisco, CA.
- 2016 Served on the faculty search committee to select a clinical faculty for the **Department of Endodontics**, and another candidate for the director of the graduate program.
- 2016 Judged abstracts of dental students for Bouquot-to-go Scholarship Award to cover the cost of the winner to attend the AADR meeting in Los Angeles, CA.
- 2016 Judged abstracts of dental students to select 7 finalists out of 19 to attend the **Hinman Student Research Symposium** from Oct., 28th to 30th in Memphis, TN.
- 2015 **Evaluator for Ms. Shivani Patel's** application (DS4) to orthodontics residency program at UTHealth School of Dentistry using the ETS PPI of ADEA Evaluation Report
- 2015 Judged posters of dental students who participated in summer research program at UTHealth School of Dentistry at Houston. Symposium was organized at Cooley Conference Center on Oct. 16th.
- 2015 A judge for the **Colgate ADA Student Research Meeting** to select a dental student to represent our school at this meeting on October 25-27, 2015.
- 2014 Chaperoned eight of the dental students who presented their research studies at **Hinman Student Research Symposium** from Oct., 31th - Nov., 2nd 2014 in Memphis, TN. I also served as a judge for the oral and poster presentations. Our own student, Jeffery Dyke, DS2, won the best poster award for our school.
- 2014 Served on the interview committee for the **Association Dean For**

Academic Affairs position. I met both finalist Drs. Childs and Spears during lunch break together with other faculty at our school.

- 2014 Chaired the Genetics and Craniofacial Development session at the **Summer Research Showcase**. The event was organized at The Cooley Center at the School of Dentistry on Oct., 3
- 2014 Judged 6 posters at the **Table Clinic** at our school of January 13, 2014.
- 2013 Chaired the Genetics and Craniofacial Development session at the **Summer Research Showcase**, School of Dentistry.

Department of Diagnostic and Biomedical Sciences, UTHealth

- 2018 - current **Coordinator**, together with Dr. Dan Harrington, of the **biweekly seminar series** of the Department Diagnostic and Biomedical Sciences. I am in charge of inviting outside speakers and introducing them at the seminar series.
- 2017 Invited Dr. Jacque Nor from University of Michigan to give a talk at the School of Dentistry, DBS seminar series on Dec 11th.
- 2016 Partially mentored with Drs. Letra and Silva (PIs), PhD candidates **Cavalla Franco** DDS, and **Claudia Bigueti**, DDS from Brazil.
- 2016 Served on the interview committee for the **senior research faculty** position. I interviewed Dr. Cindy Farach-Carson for this position.
- 2016 Organize a weekly meeting for my lab members and a biweekly meeting for all the members of the **Center for Craniofacial Research** in room SOD5210. It is a forum where all trainees present their data in front of faculty, dentists and postdocs
- 2015 - 2018 **Coordinator** of the **biweekly seminar series** of the Department Diagnostic and Biomedical Sciences, together with Dr. Jeremy Schaefer. We are in charge of inviting outside speakers and introducing them at the seminar series.
- 2015 Organizer of a joint weekly meeting for investigator at the **Center of Craniofacial Research**. The faculty and lab members of Drs. Edwards, Fakhouri, Kasper, Ogbureke and R. van der Hoeven has presented their work at this meeting. We meet in room SOD5210 once a week during the summer semester.
- 2014 Organize a weekly meeting for my lab members and a biweekly meeting for all the members of the **Center for Craniofacial Research** in room SOD5210. It is a forum where all trainees present their data in front of faculty, dentists and postdocs
- 2014 Served on the **Faculty Search Committee** for a basic science faculty

position at the Center for Craniofacial Research

- 2014 Presented my research at the **Diagnostic and Biomedical Sciences monthly seminar series** at our dental school. The title of my talk was "Genetic risk factors in craniofacial disorders"
- 2013 Invited Dr. **David Clouthier**, Assoc. Prof. at the University of Colorado, School of Dental Medicine, to talk at the School of Dentistry. His visit was funded by the Department of Diagnostic and Biomedical Sciences. The title of his presentation was "Auriculocondylar Syndrome and Endothelin Signaling"
- 2011 Chaired a meeting session at the **MSU Summer Symposium** on Transcriptional Dynamics, Evolution and Systems Biology in July

ABSTRACT PUBLICATION

- 2020 Bradley Fox, Katherine Kin, Jake, **Walid D. Fakhouri**. A model for non-coding DNA variations in cancer. UTHHealth CPRIT Summer Program, August 07, 2020.
- 2020 Kent Healy, Shelby R. H Johnston, **Walid Fakhouri**. Investigating the role of zoledronic acid on bone development in MRONJ. AADR, Washington, DC (converted to virtual meeting)
- 2020 Jessica W. Bertol, Victoria K. Xie, Kelsea M. Hubka, Cindy Farach-Carson, **Walid D. Fakhouri**. Role of TWIST1 Phospho-Sites in Epithelial-to-Mesenchymal Transition (EMT) During Formation of Cranial Neural Crest Cells. EB-2020, San Diego (converted to virtual meeting)
- 2020 Kent Healy, **Walid Fakhouri**. Investigating the role of zoledronic acid on bone development in MRONJ. AADR, Vancouver, CA.
- 2019 Jessica W. Bertol, Katherine Kin, Jake Thompson, Fabian Mendoza, Ethan Tabm Arju S. Gaggar, Goo Jun, Walid Fakhouri. A cleft and palate gene, IRF6, is involved in craniofacial bone mineralization. Bone Disease Research Conference of Texas, Cooley Center at UTHHealth School of Dentistry, Houston
- 2018 Jessica W. Bertol, Victoria K. Xie, Kelsea M. Hubka, Cindy Farach-Carson, **Walid D. Fakhouri**. Role of TWIST1 Phospho-Sites in Epithelial-to-Mesenchymal Transition (EMT) During Formation of Cranial Neural Crest Cells. Sept 23, Genetic and Epigenetic Retreat, La Torretta
- 2018 Sameer Bilal, Megan Do, Kara Nguyen, Katherine Kin, **Walid D. Fakhouri**. The Role of IRF6 in Salivary Gland and Pancreas Development. AADR, March 21-24, Fort Lauderdale, Florida.

- 2017 Katherine Kin, Eugene , Aleks **Walid D. Fakhouri**. Modeling of Pathological Effects of Non-coding DNA Variations in Cancer. American Society of Biochemistry and Molecular Biology (ASBMB), Special Symposium on Evolution of Transcriptional Code. Stowers Institute, Kansas City, Kansas.
- 2017 Fabian Mendoza, Jake Thompson, **Walid D. Fakhouri**. The role of IRF6 in craniofacial bone development. IADR/AADR, March 23, San Francisco, CA.
- 2017 Kareem Metwalli, Megan Do, Sathi Mallick, Katherine Kin, **Walid D. Fakhouri**. A novel role of IRF6 in salivary gland and pancreas development. GRC on Salivary Gland and Exocrine Biology. Galvez Hotel, Houston Feb 18-23.
- 2016 M. Williams, N. Dinckan, K. Maheshwari, R. Silva, S Akyalcin, A. R. Vieira, **WD. Fakhouri**, A. Letra. Association Between Colorectal Cancer Polymorphic Variants and Isolated Tooth Agenesis. 94th General Session and Exhibition of the IADR, June 22-25, Seoul, South Korea.
- 2016 Megan Do, Adeeb Sakkalaek, Angie Quispe, Katherine Kin, **Walid D. Fakhouri**. The role of IRF6 in salivary gland and pancreas development. AADR 2016, Los Angeles, CA.
- 2016 Lincoln P. Edwards, **Walid D. Fakhouri**, Pegah Memar Ardestani and Hossein Zarezadeh. Salivary Peptides Regulate Intracellular Calcium in Rat Pancreatic Beta Cells. Experimental Biology 2016 Meeting, The FASEB Journal. 2016. Abstract 1270.6
- 2016 Hossein Zarezadeh, **Walid D. Fakhouri**, Pegah Memar Ardestani and Lincoln P. Edwards. Differential regulation of intracellular calcium by parotid PRB2 and PRB3. AADR 2016, Los Angeles, CA.
- 2015 Yi-Chun CL, **Fakhouri WD**, Lungu L, Tamar H and Chandy B. A case of isolated agnathia and its management. SENTAC 2015, Society of Ear Nose and Throat Advances in Children, San Antonio.
- 2015 **Walid D. Fakhouri**, Ali Naji, Kareem Metwalli, Sarah Bakheit. Non-cell-autonomous genetic interaction between Irf6 and Twist1 during craniofacial development. Gordon Research Conference-Neural Crest and Cranial Placodes, Stonehill, Boston, July 19-24.
- 2015 **Walid D. Fakhouri**, Ali Naji, Kareem Metwalli, Sarah Bakheit, Brain C. Schutte. Irf6 genetically interacts with Twist1 to regulate mandibular development. Society of Developmental Biology, Snowbird, Utah. July 9-13.
- 2015 **Walid D. Fakhouri**, Ali Naji, Kareem Metwalli, Sarah Bakheit. Irf6 in epithelium genetically interacts with Twist1 in adjacent mesenchyme

- to regulate mandibular development. Bone Disease Research Conference of Texas, Marriott Medical Center, Houston, TX, May 1st.
- 2014 Yi-Chun CL, Fakhouri WD, Lungu L, Tamar H and Chandy B. A case of isolated agnathia and its management. American Society of Pediatric Otolaryngology, Spring 2015.
- 2014 Katherine Kin, **Walid D. Fakhouri**. Competitive model of gene regulation by p53 and cMyc in embryonic and tumor cell at the cis-overlapping motifs. Hinman Student Research Symposium from Oct., 31th -Nov., 2nd 2014 in Memphis, TN.
- 2014 Katherine Price, **Walid D. Fakhouri**. Analysis of the relationship between micrognathia and cleft palate. Hinman Student Research Symposium from Oct., 31th -Nov., 2nd 2014 in Memphis, TN.
- 2014 JungHwa Choi, Shivani Patel, **Walid D. Fakhouri**. Effect of teratogens on the development of orofacial abnormalities in single and double heterozygous mice for *Irf6* and *Twist1*. Texas Star of the South Dental Conference.
- 2014 Leslie EJ, Taub MA, Zhang Q, Steinberg KM, Koboldt DC, Kousa Y, Larson DE, Hetmanski J, Wang H, Fulton RS, Cornell RA, Schutte BC, **Fakhouri WD**, Wehby GL, Moreno LM, Ingo Ruczinski I, Hecht JT, Scott A, Christensen K, Lidral AC, Beaty TH, Weinstock GW, Murray JC, Marazita ML. Targeted sequencing of GWAS loci: insight into genetic etiology of cleft lip and palate. Submitted to ASHG in San Diego.
- 2014 Youssef Kousa, Huiping Zhu, **Walid D. Fakhouri**, Akira Kinoshita, Martine Dunnwald, Raeuf Roushangar, Trevor Williams, Brad Amendt, Yang Chai, Richard H. Finnell, Brian C. Schutte. *Irf6* homeostasis is required for neurulation through a direct interaction with *Tfap2a*. GRC Craniofacial Morphogenesis and Tissue Regeneration, Boston, March.22-26th.
- 2014 Katherine Kin, **Walid D. Fakhouri**. Bioinformatic analysis for p53 and cMyc binding at the cis-overlapping motifs (COM) at the genome-wide level. Clinical Table Meeting, School of Dentistry Houston.
- 2014 Kareem Metwalli, Jing He, **Walid D. Fakhouri**. Characterizing the pathophysiology of a mouse model missing a lower jaw. NCS1139 Rice Undergraduate Research Symposium, April 16th.
- 2014 **Walid D. Fakhouri**, Ali Naji, Manish Shanker, Larissa Nitschke, Brian C. Schutte. Disruption of *Irf6* and *Twist1* expression leads to loss of mandible and cleft palate. The Rolanette and Berdon Lawrence Bone Disease Program of Texas. Marriott Medical Center Hotel.
- 2014 **Fakhouri WD**, Naji A, Shanker M, Nitschke L, Schutte BC. Reduction in *Irf6* and *Twist1* expression lead to mandibular disorders. Gordon

Research Conference on Bone and Teeth, Translating signaling mechanisms into therapy at the Hotel Galvez in Galveston, TX.

Posters won a best poster award

- 2013 Michael Rasmussen, **Walid D. Fakhouri**. Reduction in expression of *Twist1* and *Irf6* interaction in mandibular development. American Dental Association, North Carolina, Nov., 15-18th.
- 2013 Michael Rasmussen, **Walid D. Fakhouri**. Molecular nature of *Twist1* and *Irf6* interaction in mandibular development. Hinman Student Research Symposium, Memphis, Tennessee, Oct., 25-27th.
- 2013 Manish Shanker, Ali Najid, **Walid D. Fakhouri**. Increased apoptosis in agnathic *Irf6* and *Twist1* double heterozygous pups. Hinmann Student Research Symposium, Memphis, Tennessee, Oct., 25-27th.
- 2014 Youssef Kousa, Huiping Zhu, Akira Kinoshita, **Walid D. Fakhouri**, Martine Dunnwald, Raeuf Roushangar, Trevor Williams, Brad Amendt, Yang Chai, Richard H. Finnell, Brian C. Schutte. *Irf6* homeostasis is required for neurulation through a direct interaction with *Tfap2a*. ASHG, Boston, Oct.22-26th.
- 2013 **Walid D. Fakhouri**, Larissa Nitschke, David Huver, Marissa Ceresnie, Brian C. Schutte. *IRF6* and *TWIST1* genetically interact during mandibular development, Gordon Research Conference on Neural Crest and Cranial Placodes, July 21-26, Boston.
- 2011 Ragina N, Schlosser K, Knott J, Senagore P, Swiatek P, Chang E, **Fakhouri WD**, Schutte B, Kiupel M, Cibelli J. Down-regulation of H19 improves the differentiation potential of mouse parthenogenetic embryonic stem cells.
- 2010 **Walid Fakhouri**, Lindsey Rhea, Jeffrey C. Murray, Martine M. Dunnwald, Brian C. Schutte. A multi-species conserved sequence located 9.7 kb upstream of *IRF6* is not sufficient to recapitulate endogenous expression craniofacial tissues. 60th ASHG, Nov. 2-6th.
- 2010 **Fakhouri W.**, Gizatullina D., Du T., Schutte BC. A rare mutation mapped to E-box binding motif in *IRF6* enhancer element is linked to Van der Woude Syndrome. 9th Annual Pediatric Research Day, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 12th.
- 2008 **Fakhouri W.**, Ay A., Sayal R., Dayringer E., Chiu C., Arnosti D.N. Modeling cis-regulatory transcriptional grammar in *Drosophila* embryos. Organization of Biological Networks, University of Minnesota, Mar. 3-7th.
- 2007 **Fakhouri W.**, Ay A., Chiu C., Arnosti D.N. Deciphering a cis-regulatory grammar using a "bottom-up" approach in the *Drosophila*

- embryo. *Systems Biology: Global Regulation of Gene Expression*, Cold Spring Harbor Laboratory (CSH), New York, Abst. p. 11th.
- 2007 Arnosti D.N., Ay A., Chiu C., **Fakhouri W.** A “bottoms-up” approach to deciphering transcriptional cis-regulatory grammar in the *Drosophila* embryo. 48th Annual *Drosophila* Research Conference, Philadelphia, Pennsylvania, Abst. p. 91.
- 2006 **Fakhouri W.**, Ay A., Chiu C., Arnosti D.N. Computational analysis of transcriptional cis-regulatory grammar and developing predictive mathematical model in *Drosophila*. Midwest Quantitative Biology Conference, Mackinac Island, MI, Abst. p. 7.
- 2005 **Fakhouri W.** and Trail F. Genetic effects of the endocrine disruptor atrazine on the sexual development of the filamentous fungus *Sclerotinia sclerotiorum*. International Union of Microbiological Societies, ASM, San Francisco, California, USA, Abstract, p. M613.
- 2004 **Fakhouri W.** and Trail F. Effect of atrazine on the sexual development of apothecia of the filamentous fungus *Sclerotinia sclerotiorum*. 11th Annual Midwest Microbial Pathogenesis Conference. MSU, Abstract, p 78.
- 1999 **Fakhouri W.**, Nossova O. and Buchenauer H. Combination of benzothiadiazole (BTH) with *Pseudomonas fluorescens* strain (G309) effectively controls the bacterial speck of tomato plants caused *Pseudomonas syringae* pv. Tomato. XIVth International Plant Protection Congress (IPPC), Jerusalem, p 28.

PARTICIPATION IN NATIONAL AND INTERNATIONAL CONFERENCES

- 2018 American Association of Dental Research (**AADR**) and **CADR**. Fort Lauderdale, Florida, March 21-24.
- 2017 American Society of Molecular Biology and Biochemistry (**ASBMB**), Special Symposium on Evolution of Transcriptional Code. Stowers Institute, Kansas City, Kansas.
- 2017 Gordon Research Conference on **Salivary Glands and Exocrine Biology**, Hotel Galvez in Galveston, TX.
- 2016 Gordon Research Conference on **Craniofacial Morphogenesis and Tissue Regeneration**, Ventura, CA.
- 2015 Gordon Research Conference, **Neural Crest and Cranial Placodes**, Stonehill University, Boston, July 19-24.
- 2015 **Society of Developmental Biology**, Snowbird, Utah. July 9-13.

- 2015 **Bone Disease Meeting** organized by Baylor College of Medicine and MD Anderson Cancer Research Institute at the Marriott Hotel Medical Center on June 27th.
- 2015 Attended **Cancer Epigenetics: Environmental Influences and Molecular Mechanisms**, March 26, 2015, Texas A&M-Institute of Biosciences and Technology
- 2014 **Medical School Research Retreat** at the Institute of Molecular Medicine, Sarofim Research Building, October, 8.
- 2014 **Hinman Student Research Symposium**, Oct. 31-Nov. 2, in Memphis, Tennessee.
- 2014 **Bone Disease Meeting** organized by Baylor College of Medicine and MD Anderson Cancer Research Institute at the Marriott Hotel Medical Center on June 27th.
- 2014 **ADEA 2014** Annual Session and Exhibition, Mar., 15-19th, 2014, in San Antonio, TX.
- 2014 **Houston Global Health Collaborative** meeting at Baylor College of Medicine, 1 Baylor Plaza, Houston.
- 2014 **Gordon Research Conference** on Bone and Teeth, Translating
- 2013 **Medical School Research Retreat** at the Institute of Molecular Medicine, Sarofim Research Building.
- 2013 **Gordon Research Conference** to attend the Neural Crest and Cranial Placodes, Meeting in Stone Hill College in Boston, 2013.
- 2012 **Gordon Research Conference** on Craniofacial Morphogenesis and Tissue Regeneration held on March 17-23, in Ventura CA.
- 2011 Annual Meeting of **Craniofacial Genetics and Development Biology**, Montreal Canada, October 10.
- 2010 **10th Annual Pediatric Research Day**, Stem Cell Research-Promise for Pediatrics, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 25, 2010.
- 2010 **9th Annual Pediatric Research Day**, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 12, 2010.
- 2011 **61th American Society of Human Genetics and International Congress of Human Genetics**, Montreal Canada, October 10-16, 2011.
- 2010 **60th American Society of Human Genetics**, Washington DC,

November 2-6, 2010.

- 2009 **48th Annual Midwest Developmental Biology Meeting**, University of Iowa, May 29-31, 2009, Sheraton Hotel, Iowa City, IA.
- 2008 **Summer Symposium on Transcriptional Regulation and Systems Biology**, MSU, East Lansing, Michigan, USA, July 18-21, 2008, Biomedical and Physical Sciences Building.
- 2008 **Stochastic Models for Intracellular Reaction Networks**, Dept. of Mathematics and its Application, University of Minnesota, May 11-13, 2008.
- 2008 **Organization of Biological Networks**, Dept. of Mathematics and its Application, University of Minnesota, Mar. 3-7, 2008.
- 2007 **Midwest Drosophila Conference**, Allerton Conference Center, Monticello, IL, USA, Oct. 5-6, 2007, p14.
- 2006 **Midwest Quantitative Biology Conference**, Mackinac Island, MI, USA, Sept. 29- Oct. 1, 2006, p 34, best poster award.
- 2006 **65th Annual Meeting of Society for Developmental Biology**, Ann Arbor, Michigan, USA, June 17-21, 2006, University of Michigan, p191.
- 2006 **Analysis of Transcriptional Networks**, MSU, East Lansing, Michigan, USA, May 13, 2006, Biomedical and Physical Sciences Building.
- 2005 **International Union of Microbiological Societies**, ASM, San Francisco, California, USA, July 23-28, 2005, Moscone Convention Center, p. M613.
- 2004 **11th Annual Midwest Microbial Pathogenesis Conference**, Michigan State University, USA, Oct. 1-3, 2004, Kellogg Centre, USA.
- 2003 **Gene Expression in Development and Disease**, Michigan State University, USA, May, 2003, MSU Detroit College of Law Building.
- 2002 **53th German Plant Protection Conference**, Bonn, Germany, Sept. 16-19, 2002, Band 390.
- 2001 **British Mycological Society**, Bioactive Fungal Metabolites-Impact and Exploitation, University of Wales, Swansea, UK, April, 22-27, 2001, abstract p.110.
- 2000 **6th IOBC/WPRS-EFPP Biocontrol Agents**; modes of action and their interaction with other means of control, Sevilla, Spain, Nov. 30-Dec. 3, abstracts, p.66 and 100.

- 2000 **52th German Phyopathology Conference**, Weihnstephan, Munich, Germany, Oct. 9-12, 2000, Band 376, abstracts p. 191 and 570.
- 2000 **APS Annual Meeting**, New Orleans, Louisiana, Aug. 12-16, abstracts 0157 and 0392.
- 1999 **XIVth International Plant Protection Congress (IPPC)**, Plant Protection Towards the third Millennium-where Chemistry Meets Ecology, Jerusalem, Israel, July, 25-30, abstracts. pp.28 and 98.
- 1998 **51th German Plant Protection Conference**, Halle/Saale, Germany, Oct. 5-8. Band 357, abstract. p.363.
- 1997 **Molecular Approaches in Biological Control**, IOBC/OILB, Delmont, Switzerland, Sept. 15-18, 1997, abstract p.51.

ACADEMIC ADVISER FOR UTHEALTH DENTAL STUDENTS

- 2020 Ali Alshabeeb, DS1
- 2020 Jianfei Xue, DS1
- 2020 Amber Hua, DS2
- 2020 Arash Ashouri, DS3
- 2020 Joshua Bear, DS3
- 2020 Kalin Bhavan, DS3
- 2020 Omid Hadj, DS3
- 2020 Jared Hatch, DS4
- 2020 Katie Hauser, DS4
- 2019 Razvi, Hosain Zehra (DS1)
- 2019 Hadj Omid, DS2
- 2019 Hatch Jared H, DS2
- 2019 Hauser Katie, DS2
- 2018 Razvi, Hosain Zehra (DS1)
- 2018 Hadj Omid, DS2
- 2018 Hatch Jared H, DS2
- 2018 Hauser Katie, DS2
- 2017 Razvi, Hosain Zehra (DS1)
- 2017 Hadj Omid (DS1)
- 2017 Hatch Jared H
- 2017 Hauser Katie
- 2017 Austen Holley
- 2017 Samin Huque (DS3)
- 2017 Jones Ryan (DS3)
- 2017 Azadeh Khorram (DS3)
- 2016 Austen Holley (DS3)
- 2016 Samin Huque (DS2)
- 2016 Jones Ryan (DS2)
- 2016 Azadeh Khorram (DS2)
- 2015 Austin Alexander Holly (DS1)
- 2015 Zehra Hosain
- 2015 Daryl Marie Stein

2015	Kenni Halili Sunga
2015	Paul Glenn Swinney
2015	Ryan Jones
2015	Lindsey Teal
2015	Virginia Velez
2014	Ryan Jones (DS1)
2014	Lindsey Teal (DS1)
2014	Virginia Velez (DS1)
2014	Azadeh Khorram (DS1)
2013	Robyn B Waring (DS1)
2013	Hunter S. Owen (DS1)
2013	Iliana M. Saavedra (DS1)

RESEARCH MENTOR

UTHealth Dental and Dental Hygiene Students

2021	Gianncarlo Cruz , pre-entry dental student
2020	Rahul Paul , incoming dental student
2020	David Drake , incoming dental student
2018-2021	Kent Healy , second year dental student
2018	Talal Beidas , first year dental student
2018	William Paz , first year dental hygiene student
2018	Gianncarlo Cruz , pre-entry dental student
2016	Meredith Williams , third year dental student. Co-advisor with her principal mentor Dr. Ariadne Letra.
2016	Jake Thompson , pre-dental student. He worked on the role of Irf6 in immune system and its effect on craniofacial bone development. He is the first author of a study that was submitted to Bone journal.
2015	Katherine Kin , fourth year dental student. She is the first author of a bioinformatics and experimental article in submission to DNA Research journal.
2014	Shivani Patel , third year dental student. She volunteered in my lab to work on mandibular development and disorders.
2014	Katherine Price , first year dental student

She worked in my lab as a summer research trainee funded by the research office. She is the first author of a systematic review submitted to Cleft Palate-Craniofacial Journal.

- 2014 **Katherine Kin**, third year dental student.
She was funded by the Research Office for Summer Research Program.
- 2014 **Jamie Choi**, second year dental student
She worked on the effect of teratogens on the penetrance of micrognathia and cleft palate in double heterozygous embryos for *Irf6* and *Twist1*. She also took the elective research course (DBEB 5003) with me during the Fall 2014.
- 2014 **Alicia Bush**, second year dental student.
She worked on studying the genetic interaction between *Irf6* and *Twist1* on mandibular development and cleft palate. Her work in my lab was part of the fulfillment of the elective research course (DBEB 5003) during last spring semester.
- 2013 **Katherine Kin**, second year dental student.
Presented her work at the Table Clinic 2014 at the School of Dentistry Houston. She worked in my lab to fulfill the requirement of the elective research course (DBEB 5003) for two credit hours.
- 2013 **Michael Rasmussen**, second year dental student.
He joined my lab during the Summer 2013. Oral presentation on the role of *Irf6* and *Twist1* genetic interaction during mandibular development. He presented his work at the American Dental Association Meeting in North Carolina, Nov., 15-18. 2013
- 2013 **Manish Shanker**, pre-dental student.
He joined my lab as a summer research trainee funded by the UTSD research office. He presented his work at the American Dental Association Meeting in North Carolina, Nov., 15-18. 2013

UTHealth and SOD Master Students

- 2020 **Huy Pham**, DDS in Periodontics. He will perform part of her master thesis experiment in my lab to test the "Implant Osteotomy Preparations in Fresh Human Cadaver Tibiae and Bone Regeneration".
- 2019 **Huy Pham**, DDS in Periodontics. She will perform part of her master thesis experiment in my lab to test the "Implant Osteotomy Preparations in Fresh Human Cadaver Tibiae and Bone Regeneration".
- 2018 **Laura Nelson**, DDS in Periodontics. She collaborated with my lab for her master thesis experiment in my lab to test the

- “Temperature Changes During Implant Osteotomy Preparations in Fresh Human Cadaver Tibiae”.
- 2018 **Heera Venguidesvarane**, BMS, a master student at school of public health
- 2017 **Laura Nelson**, DDS in Periodontics, a master student at the Department of Periodontics. Committee member and co-mentor for her thesis.
- 2015 **Srishti Manocha**, BMS, a master student at school of public health
- 2015 **Mamatha Yadlapati** DDS, an endodontic resident, a co-mentor on her master thesis. She defended her master thesis on August. Her thesis titled "vascular endothelial growth factor loaded with bioresorbable drug delivery system for in vivo pulp regeneration".
- 2015 **Renato Silva** DDS PhD, an associate professor in Endodontic Department. I served as a mentored on his master thesis work on the periapical lesions and pulp regeneration. He defended his thesis on December 12.
- 2014 **Laura Lungu** DDS, an Ortho resident, co-mentor for her master thesis with Dr. Akyalcin. Discovery of genetic risk factors in patients with isolated micrognathia and Pierre Robin Sequence
- 2014 **Mamatha Yadlapati** DDS, an endodontic resident, co-mentor for her master thesis with Dr. Renato Silva. She worked with me to develop a protocol that allowed us to implant avulsed human teeth subcutaneously in C57BL/6J or immune-compromised mice (Nu/Nu) to test the effect of growth factors on pulp regeneration. Title of her project was "Vascular endothelial growth factor loaded with bioresorbable drug delivery system for in vivo pulp regeneration".
- 2014 **Nishtha Joshi**, a graduate student at UTHealth-GSBS joined my lab to perform in silico and literature review analysis on the association between skeletal malocclusion and late onset medical diseases. Her work resulted in a first author review article published in JOCMR. The article was cited more than 70 times
- 2013 **Ali Najj**, a graduate student at University of Texas Medical School, served as a committee member on the master thesis, a co-author in prep manuscript.
- 2010 **Diana Gizatullina**, a graduate student at the Michigan State University in Dr. Schutte’s lab. She worked with me to test the effect of rare mutation found in patients with Van der Woude syndrome.

MD Anderson and UTHealth GSBS Graduate Students

- 2018 Interviewed the applicants Ms. **Bianca Diaz** and Ms. **Melissa Frasca** who were invited for the GSBS Visitation Weekend on Feb 23 for the PhD program in Cancer Biology and Genetics and Epigenetics program.
- 2017 **Malcolm Moses**, genetics and epigenetics program, did 10-week research rotation in my lab and presented his work at the GSBS first year rotation talks by graduate students at December 7, 2017. Many faculty members of G&E program from MD Anderson and UTHealth attended the meeting.

PhD trainees

- 2009 **Jackie Dreshen**, mathematics graduate student, Michigan State University in Dr. Arnosti's lab, a co-author in the Mathematical Biosciences, 2012 article.
- 2007 **Rupinder Sayal**, biochemistry graduate student, Michigan State University in Dr. Arnosti's lab, a co-author in the MSB EMBO 2010 article.
- 2006 **Ertugrul Dalkic**, biochemistry graduate student, Michigan State University, rotation graduate student at Dr. Arnosti's lab.
- 2000 **Mark Neemann**, a graduate student at the Institute for Phytomedicine, Stuttgart, Germany.

High School and Undergrad trainees

- 2021 **Alina Naqvi**, biology major and predoctoral, Rice University, Off-campus research course for 3 credit hours (Bioc 310).
- 2020 **Bradley Fox**, received a CPRIT Undergraduate Fellowship for his summer research training in my lab. He worked on developing a predictive model of non-coding DNA variations in cancer. He will continue working on this modeling project as part of his graduation thesis.
- 2019 **Jed Chen**, high school student from Katy High School, Houston, TX
- 2019 **Yazan Hassan**, Junior undergrad student at University of Houston, a Summer Research Program at UTHealth School of Dentistry from University of Houston
- 2019 **April Zhang**, high school student from Tuscan, Arizona (her aunt is my colleague Dr. Weinjian Zhang, associate professor at the department of Diagnostic and Biomedical Sciences

- 2018 **Neha Sharma**, biology major, undergraduate student from University of Houston, member of the dental club.
- 2017 **Jessica Hartz**, biology and pre-vet, Rice University, Off-campus research course for 3 credit hours (Bioc 310).
- 2017 **Victoria Xie**, music and biochemistry, Rice University, Off-campus research course for 3 credit hours (Bioc 310). (She will join the Baylor College of Medicine as medical student in the summer of 2018).
- 2017 **Sameer Bilal**, a Summer Research Program at UTHealth School of Dentistry from University of Houston. He presented his project at the AADR in Florida.
- 2017 **Fabian Mendoza**, attended the AADR in San Francisco, (invited to UTHealth SOD Houston and San Antonio).
- 2016 **Kara Nguyen**, a Summer Research Program at UTHealth School of Dentistry from University of Houston
- 2016 **Fabian Mendoza**, a Summer Research Program at UTHealth School of Dentistry from Texas Tech University (a dental student at UTSOD-San Antonio)
- 2015 **Megan Do**, a Summer Research Program at UTHealth School of Dentistry, Agnes Scott College, Georgia (a dental student at UCSF)
- 2015 **Salem Hadgu**, Psychology, Rice University, Off-campus research course (Bioc 310), Spring 2015 (a dental student at UTSD-Houston)
- 2014 **Kareem Metwalli**, Environmental Engineering, Rice University, Off-campus research course (Bioc 310), Spring 2014, a co-author in a manuscript in preparation (a dental student at UTSOD-San Antonio)
- 2014 **Sarah Bakhiet**, Biological Sciences, Rice University, Off-campus research course (Bioc 310), a co-author in a manuscript in preparation (a dental student at UTSOD-Houston)
- 2014 **Sarah George**, Biochemistry, Rice University Off-campus research trainee
- 2014 **Jing He**, Psychology, Rice University, Off-campus research course (Bioc 310) in Spring 2014, she is a co-author in a manuscript (a dental student at Baylor SOD-Dallas)

- 2014 **Xi (Keri) Chen**, Molecular Biology and Bioinformatics, Rice University Off-campus research trainee, a co-author in bioinformatic article ([a dental student at School of Medical Dentistry-University of Pittsburgh](#))
- 2013 **Kareem Metwalli**, Environmental Engineering, Rice University, Off-campus research course (Bioc 310), Fall 2013 and Spring 2014, a co-author in prep manuscript
- 2013 **Sarah Bakhiet**, Biological Sciences, Rice University, Off-campus research course (Bioc 310), a co-author in prep manuscript
- 2013 **Jing He**, Psychology, Rice University, Off-campus research course (Bioc 310) in Fall 2013
- 2012 **Larissa Nitschke**, Molecular Genetics, Michigan State University in Schutte's lab, a co-author in the HMG 2014 article (a PhD student at Baylor College of Medicine, Houston)
- 2011 **Julie Barrons**, Biochemistry, Michigan State University in Schutte's lab, a co-author in the HMG 2014 article (A dental student at University of Illinois-Chicago)
- 2011 **David Huver**, Microbiology and Molecular Genetics, Michigan State University in Schutte's lab, a co-author in the HMG 2014 article
- 2011 **Marissa Ceresnie**, Human Genetics, Michigan State University in Schutte's lab at the Department of Microbiology and Molecular Genetics
- 2010 **Tianli Du**, Microbiology and Molecular Genetics, Michigan State University in Schutte's lab, a co-author in the Dev Dyn 2011 article (attended a medical School at UT-MB Galveston, TX)
- 2008 **Xiaozhou Chiu**, Biochemistry, Michigan State University in Arnosti's lab (attended a medical student)
- 2007 **Evan Dayringer**, Mathematics, Michigan State University in Arnosti's lab, a co-author in the MSB EMBO 2010 article
- 2005 **Nicole Biluk**, Biochemistry, Michigan State University in Arnosti's lab at the Department of Biochemistry and Molecular Biology (A PhD candidate at MSU)

Professional trainees

- 2017 **Nadia Farokhnia**, DDS, professional trainee at school of Dentistry, Houston (Invited by several dental school of international dental program, will join Loma Linda School of Dentistry)

- 2016 **Neda Amini**, DDS, professional trainee at school of Dentistry, Houston (Invited by several dental school of international dental program and currently joined the dental program at U Minnesota, School of Dentistry).
- 2016 **Adeeb Sakkalaek**, MD, professional trainee at school of Dentistry, Houston (currently a resident at a hospital in Florida)