

## CURRICULUM VITAE

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**NAME:** Walid D. Fakhouri

**TITLE:** Assistant Professor

**ADDRESS:** University of Texas Health Science Center at Houston  
School of Dentistry  
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**CITIZENSHIP:** Jordanian, US Permanent Resident

**UNDERGRADUATE EDUCATION:**  
1989 - 1992 University of Jordan, Amman, Jordan,  
B.Sc. Phytopathology

**GRADUATE EDUCATION:**  
1992 - 1995 University of Jordan, Amman, Jordan, M.Sc.,  
Phytopathology /Bacteriology  
1996 - 2002 University of Hohenheim, Stuttgart, Germany,  
Ph.D. in Phytomedicine and Molecular Biology

### 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

#### *Other Professional Experience*

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 - 2005 Postdoctoral Research Associate, in Dr. Frances Trail's lab, Department of Phytopathology, Michigan State University, East Lansing, MI

#### *Honors*

2016 The Rolanette and Berdon Lawrence Bone Disease Program of Texas

2016 NIH/CSR Early Career Reviewer Program Award

- 2015 DAAD Research Ambassador for the German Academic Exchange Service
- 2015 Junior Faculty Award, Society of Developmental Biology, SDB Annual Meeting in Snowbird, Utah
- 2015 American Association of Endodontists and AAE Foundation, highest scoring research grant proposal award, 2015. Role: Co-PI.
- 2014 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, 10<sup>th</sup> Annual Pediatric Research Day, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, March 25<sup>th</sup>.
- 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.

## PEER-REVIEWED PUBLICATIONS

1. Mamatha Yadlapati, Claudia Bigueti, Franco Cavalla, Francisco Nieves, Christopher Bessey, Pedram Bohluli, Gustavo Pompermaier Garlet, Ariadne Letra, **Walid D. Fakhouri**, Renato Menezes Silva. Characterization of a vascular endothelial growth factor-loaded bio-resorbable delivery system for pulp regeneration. *Journal of Endodontics*, 2016, in press.
2. 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.
3. 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.

4. 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 motifs. Human Molecular Genetics, 2016, 25(8): 1517-27. (IF 6.44). **F1000Prime Recommendations\***  
*\* = 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.726172772.793516714.*
5. 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.
6. **Walid D Fakhouri**<sup>§</sup>, Kareem Metwalli, Ali Naji, Sarah Bakheit, Angela Quispe-Salcedo, Larissa Nitschke, Youssef A Kousa, Brain C Schutte. Non-cell-autonomous genetic interaction between Irf6 and Twist1 during craniofacial development. Scientific Reports (§= corresponding author), accepted with major revisions
7. 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. A conserved role of IRF6 in neurulation. Under review by Human Molecular Genetics
8. 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 15 times, Impact factor (IF) 11.17**)
9. 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 3, IF 1.23)
10. 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 13)
11. **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 14, IF 6.8)
12. 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 11, IF 3.73)
13. 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 1, IF 1.489)

14. **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 15, IF 2.376)
15. 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 14, IF 4.24)
16. **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 9, IF 8.44)**
17. **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 88, IF 12.39)**
18. 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).
19. 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 10, IF 4.448)
20. **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 10, IF 1.987)
21. **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 5, IF 1.439)
22. **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 38, IF 3.278)
23. **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)
24. **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.
25. **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 1, Impact factor 1.22)

26. **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.

### 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

<b>R15, GH122030-01</b> , Project: Modeling of Pathological Significance of Non-coding DNA Variants in cis-Overlapping Motifs of p53 and cMyc in Embryonic and Cancer Cells. Role: PI	10/2016-09/2019 <b>476,364.00 (funded)</b>	15% Effort
<b>Rolanette and Berdon Lawrence Bone Disease</b> Program of Texas. Role: PI	06/2016-05/2017 <b>\$45,000.00 (funded)</b>	15% Effort
<b>American Association of Endodontists</b> and AAE Foundation. PI. Silva, co-PI. <i>Dental pulp regeneration using a Vascular Endothelial Growth Factor-loaded bioresorbable delivery system</i> Role: Co-PI	05/2015-04/2017 <b>\$10,870.00 Funded</b>	5% Effort
March of Dimes. PI, <i>The role of Irf6 and Twist1 genetic interaction in mandibular birth defects</i>	06/01/16 – 05/31/18 \$250,000 (Not funded)	25% Effort
R03DE023155 (Fakhouri), NIH/NIDCR <i>The role of IRF6 and TWIST1 interaction in mandibular development</i>	12/01/13 – 11/30/15 \$150,000 (Scored good but not funded)	2.4 Calendar Months 25% Effort
CCTS, UTHealth, <i>Dental pulp regeneration using a Vascular Endothelial Growth Factor-loaded bioresorbable delivery system</i>	12/01/14 – 11/30/15 \$50,000 (Not funded)	5% Effort
CCTS, UTHealth, <i>Uncovering Genetic Risk Factors in Pierre Robin Sequence</i>	12/01/14 – 11/30/15 \$50,000 (Not funded)	5% Effort
Basil O'Connor Starter Scholar Research Award, March of Dimes. PI, <i>The role of Irf6 and Twist1 genetic interaction in mandibular birth defects</i>	12/01/14 – 12/01/17 \$149,900 (Not Funded)	35% Effort
CCTS, UTHealth, <i>Discovery of genetic risk factors in nonsyndromic skeletal Class II malocclusion</i>	01/01/14 – 12/30/14 \$50,000 (Not funded)	5% Effort
March of Dimes. Co-Investigator, <i>Molecular basis underlying genetic associations with a nonsyndromic Cleft Lip and Palate</i>	06/01/14 – 05/31/16 \$37,912 (Not funded)	5% Effort

### Pending Grant Proposal

<b>R03</b> , NIDCR, A novel function of IRF6 in salivary gland development Role: PI	07/2017-06/2019 \$310,000.00 (pending)	20% Effort
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<b>R15, NIDDK</b> , Novel Role for Salivary Peptides in Regulating Intracellular Calcium Levels in Beta cells Role: Co-investigator	04/2017-03/2020 \$300,000.00 (pending)	5% Effort
<b>CPRIT</b> Computational Biology, RP160281. PI, Modeling of Pathological Significance of Non-coding DNA Variants in cis-Overlapping Motifs of p53 and cMyc in Embryonic and Cancer Cells. Role: PI	3/1/2016-2/28/2019 \$450,000.00 (Scored, but not funded)	25% Effort

## TEACHING RESPONSIBILITIES

2016	Facilitator, <b>Clin App I</b> , DENF1543-001, UTHealth School of Dentistry
2016	Director of an elective course, DBEC 5908, titled " <b>Evaluation and Presentation of Scientific Research</b> ". Two students are taking the course.
2016	Presenter, <b>Interdisciplinary Research Seminar</b> for orthodontic residents, DBPG 1009/1011
2016	Facilitator, <b>Clin App II</b> , DENS1544, UTHealth School of Dentistry
2015	Director of an elective course, DBEC 5908, titled " <b>Evaluation and Presentation of Scientific Research</b> ". Four dental students took the course.
2015	Lecturer, <b>Oral Biology-Development, Structures and Function</b> , DBPG1110-100, Fall Semester, UT School of Dentistry Houston
2015	Facilitator, <b>Clin App II</b> , DENS1544, UTHealth School of Dentistry
2014	Lecturer, <b>Oral Biology-Development, Structures and Function</b> , DBPG1110-100, UT School of Dentistry Houston
2014	Presenter, <b>Interdisciplinary Research Seminar</b> for orthodontic residents, DBPG 1009/1011
2014	Facilitator, <b>Clin App II</b> , DENS1544, Facilitator, UTHealth School of Dentistry
2013	Instructor, <b>Oral Biology I</b> , DENF1511, First year dental students, UT School of Dentistry
2013	Lecturer, <b>Oral Biology-Development, Structures and Function</b> , DBPG1110-100, UT School of Dentistry Houston
2010	Instructor, <b>MMG892 Seminar</b> (Enhancers in Development and Diseases)
2009	Instructor, <b>Human Molecular Genetics 890</b> , taught part of the course
2008	Lecturer, <b>Pathways to Scientific Teaching Seminar</b> Course, College of Natural Science

## ACADEMIC ACTIVITIES

2016	Reviewed multiple manuscripts submitted for publication by BMC Medical Genetics
2016	Attended The White House Cancer Moonshot: Remarks by the Vice President of the US Joe Biden. Organized by Rice University's Baker Institute, Oct. 16 <sup>th</sup> .

- 2016 Judged abstracts of dental students to select 7 finalist out of 19 to attend the **Hinman Student Research Symposium** from Oct., 28<sup>th</sup> to 30<sup>th</sup> in Memphis, TN.
- 2016 Served on the interview committee for an assistant professor position at the UTHealth Pediatric Research Center-Medical School
- 2016 Served on the interview committee for the **senior research faculty** position. I met with Dr. Cindy Fararch-Carson and attend her seminar
- 2016 Served on the faculty search committee to select one or possibly two candidates for an assistant and associate professorship position at the Endodontics Department
- 2016 Attended the Mentoring Workshop for Facilitators organized by UTHealth and MD Anderson Cancer Research Institute, April 5<sup>th</sup>-6<sup>th</sup>
- 2016 Review multiple manuscripts submitted for publication to the Journal of Oral Biology where I serve on the editorial board and a manuscript submitted to publication to Journal of Cell and Animal Biology
- 2016 Judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston
- 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
- 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.
- 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. 16<sup>th</sup>.
- 2015 Medical School Research Retreat at the Institute of Molecular Medicine, Sarofim Research Building, October, 8
- 2015 Reviewed manuscripts submitted for publication to Scientific Reports by Nature and BMC Medical Genetics.
- 2015 A co-mentor for Dr. Mamatha Yadlapati on her **master thesis** work, a resident in Endodontics. She successfully completed all requirements for earning a master degree from UTHealth SOD.
- 2015 Coordinator of the **department biweekly seminar series** of Diagnostic and Biomedical Sciences, with Dr. Jeremy Schaefer. We meet with our chair, Dr. Ogbureke, to select investigators who

conduct basic, translational or clinical research in our dental school, in Texas Medical Center or outside of Houston. We try to invite at least one non-local speaker to present

- 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 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
- 2015 A judge for the **American Society of Human Genetics** annual DNA day Essay Contest for K-12 students and teacher
- 2015 Organizer of a joint weekly meeting for the **Center of Craniofacial Research**. The faculty and lab members of Drs. Edwards, Fakhouri, Kasper, Ogbureke and R. van der Hoeven present their work at this meeting. We meet in room SOD5210 once a week during the summer semester.
- 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 Reviewed several manuscripts submitted for publication to "**Archives of Environmental and Occupational Health**"
- 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 Served as a mentor on the master thesis work of **Dr. Renato Silva** and chaired his thesis defense on Dec., 12, 2014. He successfully completed all requirements needed for earning a master degree.
- 2014 Joined the **Human Molecular Genetics Program** at GSBS on Oct.,15, 2014
- 2014 Chaperoned eight of our dental students who presented their research studies at **Hinman Student Research Symposium** from Oct., 31<sup>th</sup> -Nov., 2<sup>nd</sup> 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 Judged three posters at the **Medical School Research Retreat** at the Institute of Molecular Medicine, Sarofim Research Building, October, 8
- 2014 Served on the interview committee for the **Academic Dean** 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 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 I was nominated for the **2014 President's Award for Leadership and Outstanding Faculty**, UT Health Science Center Houston
- 2014 Attended the **Grant 101 and 102** course organized by the office of vice-president of University of Texas Health Science Center Houston
- 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 Participated in the **Rice Undergraduate Research Symposium** to judge the quality of 6 posters for three best poster awards
- 2014 Served on the **Faculty Search Committee** for a basic science faculty position at the Center for Craniofacial Research
- 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"
- 2014 Judged 6 posters at the **Table Clinic** at our school of January 13, 2014
- 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 Chaired the Genetics and Craniofacial Development session at the **Summer Research Showcase**, School of Dentistry
- 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"

- 2013 Reviewer of an NSF grant proposal (#1354500) submitted to Evolution, Mechanism and Development program. The request came from Dr. **Steven Klein**, a Program Director at NSF,
- 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
- 2011 Chaired a meeting session at the **MSU Summer Symposium** on Transcriptional Dynamics, Evolution and Systems Biology in July
- 2005-09 I was the secretary of the Postdoctoral Association at 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
- 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
- 2007 Served as a mentor in the **Leadership Mentoring Project** by national postdoctoral association

#### **SERVICE TO UTHEALTH SCIENCE CENTER AT HOUSTON**

- 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 **A member** of the Human Molecular Genetics Program
- 2014 **A member** of the Animal Welfare Committee
- 2013 **A member** of the Bone and Cartilage Initiative Committee of Texas

#### **SERVICE TO UTHEALTH SCHOOL OF DENTISTRY AT HOUSTON**

- 2016 **Member**, search committee for Endodontic faculty position
- 2016 **Chair**, SOD Research Committee
- 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
- 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 18<sup>th</sup> 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

#### **SERVICE TO NATIONAL COMMITTEES**

2016 Invited judge to the National Student Research Forum (NSRF) at the University of Texas Medical Branch, Galveston

2015 Ambassador and Member, German Academic Exchange Service (DAAD)

2012 Member, Genetic Education for K12 organized by American Society of Human Genetics

#### **ADVISER FOR DENTAL STUDENTS**

2015 Austin Alexander Holly

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

2014 Lindsey Teal

2014 Virginia Velez

2014 Azadeh Khorram

2013 Robyn B Waring

2013 Hunter S. Owen

2013 Iliana M. Saavedra

#### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- Society of Craniofacial Genetics and Developmental Biology
- Sigma Xi, honorary scientific research society
- American Society of Human Genetics (ASHG)
- National Postdoctoral Association (NPA)

- American Society of Developmental Biology (SDB)
- Genetics Education Outreach Network (GEON)

#### EDITORIAL POSITIONS and REVIEWERS

- Scientific Reports by Nature (reviewer)
- BMC Medical Genetics (reviewer)
- Central European Journal of Biology (Ad hoc reviewer)
- Tissue Engineering (reviewer)
- Progressive Science (Editorial Board Member)
- Journal of Oral Biology (Editorial Board Member)
- International Journal of Biological Sciences (reviewer)
- Archives of Environmental and Occupational Health (Ad hoc reviewer)
- Journal of Cell and Animal Biology

#### INVITED SPEAKER

- 2016 Presented at the Pediatric Research Center Symposium, Cooley Center, The Function of IRF6 in salivary gland development, Thursday, June 16,
- 2016 Presented at the **Bone Disease Program, Marriott Hotel, Texas Medical Center**, Genetic interaction between Irf6 and Twist1 during mandibular development
- 2016 Presented at the **Greater Houston Dental Hygienist's Society (GHDHS)**, Norris Conference Center, Houston, TX. Title: "Genetics Omics, Pharmacogenomics: Toward Personalized Medicine"
- 2015 Invited to give a talk at the **Human Genetics Center, School of Public Health** on Monday Oct. 19
- 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., 26<sup>th</sup>
- 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**, UT Medical School, Dec., 9th.

Title was “Genetic risk factors in the syndromic form of cleft lip and palate”

- 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, 2011
- 2010 **10<sup>th</sup> 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 **9<sup>th</sup> 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
- 2000 **6<sup>th</sup> IOBC/WPRS-EFPP Biocontrol Agents**; modes of action and their interaction with other means of control, Sevilla, Spain, Nov. 30-Dec. 3
- 1999 **XIV<sup>th</sup> International Plant Protection Congress (IPPC)**, Plant Protection Towards the third Millennium-where Chemistry Meets Ecology, Jerusalem, July, 25-30

#### **ABSTRACT PUBLICATION**

- 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. 94<sup>th</sup> 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 Hossein Zarezadeh, **Walid D. Fakhouri**, Pegah Memar Ardestani and Lincoln P. Edwards. Salivary Peptides Regulate Intracellular Calcium in Rat Pancreatic Beta Cells. Experimental Biology 2016 Meeting, The FASEB Journal.
- 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, Marriott Medical Center, Houston, TX, May 1<sup>st</sup>.
- 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., 31<sup>th</sup> -Nov., 2<sup>nd</sup> 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., 31<sup>th</sup> -Nov., 2<sup>nd</sup> 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 Tfp2a. GRC Craniofacial Morphogenesis and Tissue Regeneration, Boston, March.22-26<sup>th</sup>.
- 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.
- Katherine won the second best poster award.**
- 2014 Kareem Metwalli, Jing He, **Walid D. Fakhouri**. Characterizing the pathophysiology of a mouse model missing a lower jaw. NCSI139 Rice Undergraduate Research Symposium, April 16<sup>th</sup>.

- 2014 **Walid D. Fakhouri**, Ali Najji, 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**, Najji 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.
- This poster 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., 15-18<sup>th</sup>.
- 2013 Michael Rasmussen, **Walid D. Fakhouri**. Molecular nature of *Twist1* and *Irf6* interaction in mandibular development. Hinman Student Research Symposium, Memphis, Tennessee, Oct., 25-27<sup>th</sup>.
- 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., 25-27<sup>th</sup>.
- 2014 Youssef Kousa, Huiping Zhu, Akira Kinoshita, **Walid D. Fakhouri**, Martine Dunnwald, Raeuf Roushangar, Trevor Williams, Brad Amendt, `1QYang Chai, Richard H. Finnell, Brian C. Schutte. *Irf6* homeostasis is required for neurulation through a direct interaction with *Tfap2a*. ASHG, Boston, Oct.22-26<sup>th</sup>.
- 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. 60<sup>th</sup> ASHG, Nov. 2-6<sup>th</sup>.
- 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. 9<sup>th</sup> Annual Pediatric Research Day, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 12<sup>th</sup>.
- 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. 3-7<sup>th</sup>.
- 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. 11<sup>th</sup>.
- 2007 Arnosti D.N., Ay A., Chiu C., **Fakhouri W.** A “bottoms-up” approach to deciphering transcriptional cis-regulatory grammar in the *Drosophila* embryo. 48<sup>th</sup> 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*. 11<sup>th</sup> 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. XIV<sup>th</sup> International Plant Protection Congress (IPPC), Jerusalem, p 28.

#### **PARTICIPATION IN NATIONAL AND INTERNATIONAL CONFERENCES**

- 2016 Gordon Research Conference, **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 27<sup>th</sup>.
- 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 27<sup>th</sup>.



- 2014 **ADEA 2014** Annual Session and Exhibition, Mar.,15-19<sup>th</sup>, 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 Signaling Mechanisms into Therapy, Hotel Galvez in Galveston, TX.
- 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 **10<sup>th</sup> 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 **9<sup>th</sup> Annual Pediatric Research Day**, Dept. of Pediatrics and Human Development, College of Medicine, Michigan State University, Mar. 12, 2010.
- 2011 **61<sup>th</sup> American Society of Human Genetics and International Congress of Human Genetics**, Montreal Canada, October 10-16, 2011.
- 2010 **60<sup>th</sup> American Society of Human Genetics**, Washington DC, November 2-6, 2010.
- 2009 **48<sup>th</sup> 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 **65<sup>th</sup> 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 **11<sup>th</sup> 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 **53<sup>th</sup> 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 **6<sup>th</sup> 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 **52<sup>th</sup> German Phytopathology 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 **XIV<sup>th</sup> 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 **51<sup>th</sup> German Plant Protection Conference**, Halle/Saale, Germany, Oct. 5-8. Band 357, abstract. p.363.
- 1997 **Molecular Approaches in Biological Control**, IOBC/OILB, Delemont, Switzerland, Sept. 15-18, 1997, abstract p.51.

## MENTORING and SUPERVISING

### **UTHealth Dental Students**

- 2016 **Meredith Williams**, a third year dental student. Co-advisor with her main advisor Dr. Ariadne Letra. She won Meredith Williams, 1st place Junior Category. IADR Unilever Hatton Award. [94th General Session & Exhibition of the IADR](#), June 22-25, Seoul, South Korea.
- 2016 **Jake Thompson**, pre-dental student. He has worked on the role of Irf6 in immune system and its effect on craniofacial bone development
- 2016 **Katherine Kin**, a fourth year dental student. She received the Pierre Fauchard Academy Senior Student Award from UTHealth School of Dentistry at Houston

- 2015 **Katherine Kin**, a fourth year dental student. She is the first author of a bioinformatics and experimental article in submission to DNA Research journal.
- 2014 **Shivani Patel**, a third year dental student. She is volunteering in my lab to work on mandibular development and disorders.
- 2014 **Katherine Price**, a 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**, a third year dental student  
She is also the first author of a bioinformatics article will be submitted to BMC Genomics. She was funded by the Research Office for Summer Research Program.
- 2014 **Jamie Choi**, a second year dental student  
She has been working on the effect of teratogens on the penetrance of micrognathia and cleft palate in double heterozygous embryos for Irf6 and Twist1. She is taking the elective research course (DBEB 5003) with me during the Fall 2014.
- 2014 **Jamie Choi**, a second year dental student  
She has been working on the pulp regeneration using VEGF. She took the elective research course (DBEB 5003) with me during the Spring 2014.
- 2014 **Alicia Bush**, a 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**, a second year dental student  
She won the second best poster award 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**, a second year dental student  
He worked in my lab during the Summer 2013. He was awarded the highest prestigious award "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 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. He also received

the Donald C. Kroeger Scholarship for research at School of Dentistry Houston.

- 2013 **Manish Shanker**, a first year dental student  
He worked in my lab as a summer research trainee funded by the research office. He presented his work at the American Dental Association Meeting in North Carolina, Nov., 15-18.

### **PhD trainees**

- 2016 **Cavalla Franco**, DDS, a PhD candidate from Brazil
- 2016 **Claudia Bigueti**, DDS, a PhD candidate from Brazil
- 2009 **Jackie Dreshen**, mathematics, Michigan State University in Arnosti's lab, a co-author in the Mathematical Biosciences. 2012 article.
- 2007 **Rupinder Sayal**, biochemistry, Michigan State University in Arnosti's lab, a co-author in the MSB EMBO 2010 article.
- 2006 **Ertugrul Dalkic**, biochemistry, Michigan State University in Arnosti's lab.
- 2000 **Mark Neemann**, Institute for Phytomedicine, Stuttgart, Germany.

### **Master Students and UTHealth Residents**

- 2015 **Srishti Manocha**, BMS, 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 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. Silva.  
She will work with me to develop a protocol that will allow 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 is "vascular endothelial growth factor loaded with bioresorbable drug delivery system for in vivo pulp regeneration".

- 2014 **Renato Silva** DDS PhD, an associate professor in Endodontic Department, a mentor for his master thesis work on periapical lesions and 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.
- 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. She worked with me to test the effect of rare mutation found in patients with Van der Woude syndrome.

### **Undergrad trainees**

- 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
- 2015 **Megan Do**, a Summer Research Program at UTHealth School of Dentistry, Agnes Scott College, Georgia
- 2015 **Salem Hadgu**, Psychology, Rice University, Off-campus research course (Bioc 310), Spring 2015
- 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 (PhD candidate 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
- 2008 **Xiaozhou Chiu**, Biochemistry, Michigan State University in Arnosti's lab (A medical student at UT-MS Galvestin)
- 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**

- 2016 **Neda Amini**, BDS, professional trainee at school of Dentistry, Houston (Invited by several dental school of international dental program)

2016 **Adeeb Sakkalaek**, BDS, professional trainee at school of Dentistry, Houston (currently a resident at a hospital in Florida)