

Ferhat Ozturk, Ph.D.

Associate Professor of Biology
Founding Program Director of Biology
Director of [HONEY Pathway](#)
Department of Natural and Behavioral Sciences
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Educational Background

Aug 2003 – **Doctor of Philosophy (Ph.D.), Cell and Molecular Biology**
Dec 2007 University of Nevada, Reno - Reno, Nevada, USA
In Utero Gene Therapy via Retroviral Vectors. Advisor: Prof. Christopher D. Porada

Sep 1999 – **Bachelor of Science (B.Sc.), Biology**
Jun 2003 Fatih University - Istanbul, Turkey

Research Interests:

Honey Bioactivity | Cell and Molecular Biology | Wound Healing | Microbiology | Biochemistry

Professional Employment History

Sep 2025- Present	Associate Professor of Biology and Founding Program Director Sul Ross State University International (SRSU-INT), Eagle Pass, TX
May 2024- Aug 2025	Associate Professor of Instruction University of Texas San Antonio (UTSA), Biology, Health, Environment (BHE), San Antonio, TX
June 2023- Present	Director of HONEY Pathway UTSA, Department of Integrative Biology, San Antonio, TX
Jan 2022 - May 2024	Assistant Professor of Practice UTSA, Department of Integrative Biology, San Antonio, TX
Jan 2022 - Jan 2023	Coordinator of Undergraduate Research Experience (CURE) University of Texas San Antonio (UTSA), Department of Integrative Biology, San Antonio, TX
Dec 2018 - Jan 2022	Biomedical Sciences Teacher School of Science and Technology, San Antonio, TX
Aug 2017 - Aug 2018	Visiting Assistant Professor Alma College, Department of Biochemistry, Alma, MI
Jan 2013 – Jul 2017	Department Chair and Assistant Professor Canik Basari University, Molecular Biology and Genetics Department, Samsun, Turkey

Awards and Honors

Undergraduate Research Faculty Mentor Award, The University of Texas San Antonio, April 2025

Impact and Innovation (I2) Award Nominee, The University of Texas San Antonio, April 2025

Outstanding Faculty Award, Canik Basari University

Outstanding Achievement Award, University of Nebraska Medical Center

Honor: Summa cum laude - Department of Biology - Fatih University

Teaching Activities

Teaching Interests	<i>Deliver engaging undergraduate lectures in introductory and advanced biology, physiology, and neuroscience tailored to departmental requirements.</i>			
Undergraduate Courses Taught	Biosciences -1	Medicinal Properties of Honey	Biochemistry	Bio-Psychology
	Biosciences -2	Bioinformatics / Biotechnology	Molecular Biology and Laboratory	Cell Biology and Laboratory
Graduate Courses Taught	Adv. Molecular Biology	Advanced Cell Biology	Gene Therapy	Human Genetics
	Scientific Research	Next Generation Sequencing	Targeted Genome Editing (CRISPR)	

Directed Student Learning

- Doctoral Co-Advisor**, Amber Arooj, Physics (Ph.D.), UTSA
"Synthesis and characterization of silver selenide nanoparticles using humectant solvents by pulsed laser ablation in liquids (PLAL) as antimicrobial agent." Proposal, (June 1, 2023 - Present). (Advisor: Prof. Kelly Nash)
- Doctoral Co-Advisor**, Anita Shayan, Biomedical Engineering (Ph.D.), UTSA
"Inhibitory Effect of Medical-Grade Honeys on Biofilm Formation of the *Acetivobacter baumannii*." Proposal, (August 1, 2024 - Present). (Advisor: Prof. Nihal Abu-Lail)
- Doctoral Co-Advisor**, Alia Alkhalil, Environmental Science & Engineering (Ph.D.), UTSA "Inhibitory Effect of "Biological Activity Potential of Spotted Lanternfly Honey." Proposal, (August 1, 2024 - Present). (Advisor: Prof. Valerie Sponsel)
- Master's Thesis Committee Member** Angelica Diaz-Sanchez, Biomedical Engineering (M.S.), UTSA
"Drug synergistic effects of Coriandrum sativum and Piperacillin-Tazobactam against biofilms of Thioredoxin-A protein mutant strains of Acinetobacter baumannii." Completed, (May 4, 2023)
- Honors Thesis Advisor** Gracie Sissima Joao (Spring and Summer 2024)
"The Antibacterial Characteristics of West African Honey"
- Honors Thesis Advisor** Temiyemi Adewumi (Spring and Fall 2024)
"Honey as a Preservative Agent of Beef Spoilage from Lipid Oxidation"
- CURE 2024– Student Research Projects** – Medicinal Properties of Honey Class
 - Investigating the Effects of Honey on the Gingival Fibroblasts: A Cellular Approach to Oral Health Management - Tamara Alhasanat, Goretty Artalejo, Ashley Bautista, Emily Garcia
 - Evaluating the Inhibitory and Bactericidal Efficacy of Honey Against *Neisseria Gonorrhoeae*- Angela Pacheco, Michaela Marks, Michelle Orihuela Milligan, Sydney Mahan
 - Efficacy and Cytotoxicity of Texas Honey and Honey-coated Nanoparticles on Wound Healing - Dondrae Carter, Nishat Shama, and Shahabullah Mandozai
 - Antifungal Properties of Local Texas Honeys for Fruit Conservation - Sam Anderson, Jaiden Donato
 - Investigating the Potential of Honey as an Adjunct to Traditional Malaria Treatments: Targeting Protein Synthesis in *Plasmodium falciparum* - Kaelie Leal, Melissa Fernandez Ayala, Samhitha Boyana, Vina Manouchehri
- CURE 2023– Student Research Projects** – Medicinal Properties of Honey Class
 - Sensory Analysis of Honey - Samantha Chapa, Michael Frei & Gabriella Hicks

- b. Honey-coating of Medical Catheters to Prevent Biofilms – Helen Cruz & Alessia Valdez
- c. Antibacterial Activity of TX Honeys on *Streptococcus pyogenes* – Sore Throat Bacteria - Kyra Hagan & Christine Tomydas
- d. Exploring Bee Behavior during Solar Eclipses - Ahmad Hassan & Oceanna Escribano
- e. Biological Activity Potential of Grocery Store Honeys in San Antonio – Haley Hathaway & Viviana Martinez
- f. Effects of Medical-Grade Honey on Acne-causing Pathogens – Victoria Garcia & Trina Nguyen
- g. Antibacterial Activity of TX Honeys on *Streptococcus oralis* -periodontitis bacteria – Claudia Ponce & Jason Ruiz-Gonzalez
- h. Honey for Burn Treatment - Karyme Lozano & Christina Ndayisenga
- i. Antimicrobial Properties of TX Honeys – Gracie Joao & Teno Awotu-Utuned

Research Projects

<i>Ongoing Project</i>	Principal Investigator HONEY Pathway - Building Institutional Capacity for Nextgen Agricultural Scientists through Student Research Experiences in Urban Beekeeping PI's/Co-PI's ; Ferhat Ozturk 50.00% - Amelia Lynn King-Kostelac 25.00% - Kelly LaTrice Nash 25.00%," Sponsored by US Dept of Agriculture LOC, Budget \$2,890,000.00 (June 1, 2023 – May 31, 2028). Keywords: <i>Honeybees, Beekeeping, Medicinal Honey, Underrepresented and Minoritized (URM) students, USDA's NextGen program, Experiential Learning Opportunities</i>
<i>Grant - Submitted</i>	Co-PI - Bioactivity Potential and DNA-based Authentication of Real Texas Honey PI's/Co-PI's ; Shared credit: Ferhat Ozturk 100.00%," Sponsored by Univ of Houston Budget \$31,102.00 . (December 1, 2022 - September 30, 2024).
<i>2014 – 2016 (Completed)</i>	Principal Investigator Targeted and Efficient Delivery of RNAi Agents Using Gold Nanoparticles Start-up Research Grant, Canik Basari University (CBU) to Ferhat Ozturk Keywords: <i>Cancer gene therapy, nanovectors, RNA interference, miRNA, qPCR array, EMT</i>
<i>2013 – 2016 (Completed)</i>	Principal Investigator The Bioactivity Potential of Honey for Wound Healing: An Apitherapy Approach Research Grant, Honey Research Center of CBU to Ferhat Ozturk Keywords: <i>Honey, Biological activity, Anti-microbial, Anti-oxidant, Wound healing</i>
<i>2015 – 2016 (Incomplete)</i>	Researcher - Analysis of Genetic Variants of Learning Disorders (LD) Candidate Genes Research Grant, Scientific Research Funding of CBU to Gulay Ozdemir, M.D. Keywords: <i>Biopsychology, Specific learning disorder, genetics, bioinformatics</i>
<i>2009 – 2012 (Completed)</i>	Postdoctoral Researcher - TGFbeta3 Signaling in Development of Cleft Palate NIDCR, NIH grant (R01DE017986) to Ali Nawshad of UNMC

Scholarly Presentations

Keynote & Invited Talks	American Beekeepers Federation (ABF) 82 nd Annual Convention	Reno, NV 7 – 11 Jan 2025
	American Apitherapy Society – Annual Conference	Chicago, IL 4-6 October 2024
	Brazos Valley Beekeepers Association Bee School Fall'24	College Station, TX 14 September 2024
	Texas Geriatrics Society (TGS) and Post-Acute and Long-Term Care Medical Association (PALTmed)	DFW Grapevine, TX 9-11 August 2024

	<p>Eastern Apicultural Society (EAS) Convention</p> <hr/> <p>Lily Conference on Evidence-Based Teaching and Learning</p> <hr/> <p>American Beekeepers Federation (ABF) 81st Annual Convention</p> <hr/> <p>Texas Beekeeper Association (TBA) Annual Conventions and Summer Clinics</p> <hr/> <p>USAIR Army Burn Unit (Brook's Medical Center)</p> <hr/> <p>Apimondia International Beekeeping and Honey Conference</p> <hr/> <p>Connecticut Beekeepers Association</p> <hr/> <p>American Beekeepers Federation (ABF) 80th Annual Convention – 80th Anniversary</p> <hr/> <p>Southwest Academic Society</p>	<p>Ellicott City, MD 6-9 August 2024</p> <hr/> <p>Austin, TX May 20-22, 2024</p> <hr/> <p>New Orleans, LA 9-13 January 2024</p> <hr/> <p>Temple, Galveston, TX 2019– 2023 Annually</p> <hr/> <p>San Antonio, TX 5 October 2023</p> <hr/> <p>Santiago, Chile 9-13 September 2023</p> <hr/> <p>Online 27 April 2023</p> <hr/> <p>Jacksonville, FL 4-7 January 2023</p> <hr/> <p>Online 19 October 2022</p>
Oral Presentations	<p>UC Davis Public Health Sciences - Globalization and Health: Evidence and Policies</p>	<p>Online – 11 Nov 2020</p>
Poster Presentations	<p>UTSA Academic Affairs Teaching Showcase</p> <hr/> <p>The American Bee Research Conference (ABRC) - The Potential of Texan Honey to Treat ESKAPE Pathogens</p>	<p>San Antonio, TX – Spring 2023 – Spring 2024</p> <hr/> <p>New Orleans, LA 11-12 Jan 2024</p>
Science Communication	<ul style="list-style-type: none"> - University of the Incarnate Word - San Antonio Botanical Garden - Alamo Area Beekeepers Association - Hays County Beekeepers Association - Comal County Beekeepers Association - Big Country Beekeepers Association - Montgomery County Beekeepers Association - Temple Area Beekeepers Association - Houston Beekeepers Association - Houston Natural Beekeepers Association - Central Texas Beekeepers Association - Brazos Valley Beekeepers Association 	<ul style="list-style-type: none"> - 16 November 2022 - 23 September 2023 - 24 July 2023 - 18 May 2023 - 5 October 2023 - 16 May 2023 - January 2020 - 10 August 2023 - 20 September 2022 - 12 August 2023 - 1 April 2023 - 24 September 2022

SERVICE	
University Service	
Department	<ul style="list-style-type: none"> - Coordinator of CURE (Course-based Undergraduate Research Experiences) Laboratories: I oversaw the organization of teaching and preparation labs for five CUREs, accommodating 20 students per section. Additionally, I managed the procurement of equipment, chemicals, and supplies for each class. The CUREs offered within the IB Department include SEA-Phages, Microbial Diversity & Antibiotics, Genomic Education Platform, Behavioral Biology of Zoo Animals and Wildlife, and Medicinal Properties of Honey. - FTT Hiring Committee – Fall 2023: We developed a rubric, interview procedures, conducted application reviews, submitted a short list to the department chair, conducted virtual interviews with candidates, and made final recommendations. Despite the short hiring window of 5-6 weeks, we effectively coordinated and completed all stages of the faculty search process. - Scholarships and Faculty Awards Committee: As committee members, our responsibility entails identifying and nominating eligible faculty members and staff from our department for the Regents' Outstanding Teaching Awards (ROTA) and University Excellence Staff Awards, respectively.
Media Contributions	<ul style="list-style-type: none"> - 2024 New York Times (Honeybee Behavior during Eclipse) - 2024 UTSA News – Planet UTSA Podcast (Honeybee Behavior during Eclipse) - 2023 Science (AAAS) (Honeypot Ants) - 2023 San Antonio Current (USDA NextGen Funding) - 2023 Journal of Texas Beekeepers Association (2.9 Million for Honey Research) - 2023 UTSA News (USDA HONEY Award) - 2022 San Antonio Report (Local Medicinal Honey) - 2022 KSAT-12 News (Bioactivity Analysis of Texan Honey)
Service to Profession	
Professional Development Activities Attended	<ul style="list-style-type: none"> - Teaching Showcase, UTSA Academic Affairs - Spring 2023 & 2024 - FAST – FTT Working Group – Spring & Fall 2023 - REDKE Research Collaborations Seminar – Spring 2023 - COS – Teaching Workshop – Group Studies - Fall 2023 - USDA – NextGen Project Directors Meeting - Fall 2023 - Tiny Earth Training – Summer 2022 - SEA-PHAGES Training – Summer 2022 - Genomic Education Platform (GEP) Training – Summer 2022

Professional Memberships	<ul style="list-style-type: none"> - Apimondia (International Beekeeping and Honey Organization) - American Apitherapy Association (APA) - American Beekeepers Federation (ABF) - Texas Beekeepers Association (TBA) - Phi Beta Delta Honor Society - Sigma-Xi Honor Society - Association for the Advancement of Wound Care (AAWC) - American Society of Cell Biology (ASCB) - American Society of Cell and Gene Therapy (ASGCT) - Cardiovascular Cell and Gene Therapy
Advisor of Student Organizations	<ul style="list-style-type: none"> - Honeycomb Connections – UTSA - 2023-2024 - Muslim Student Association – UTSA - 2023-2024 - HOSA – School of Science and Technology - 2018 – 2022 - BasGen – Basari Genetics – 2013 – 2016
Consulting	<ul style="list-style-type: none"> - Sustainability Office of The University of Texas at San Antonio - Sustainability Program of The University of the Incarnate Word, San Antonio - Department of Biomedical Engineering – University of Houston - L-Mesitran – Wound Management Device – Netherlands - Sakliyyayla Beekeeping – Turkiye - Apicoltura Naturale Italia - Italia
Scientific Events Organized	<ul style="list-style-type: none"> - Advisor for BasGen Basari Genetics Club, organized more than 20 scientific and educational events, Canik Basari University (CBU), Samsun, Turkey - Cancer Bioinformatics Workshop, Secretary, CBU - Biopsychology Days, Organization Chair, CBU - Forensic Sciences Symposium, Organization Chair, Anemon Hotel, Samsun - Avicenna School - First Step to University, CBU - Cannon of Medicine, Avicenna, Symposium – 1000th year Commemoration
Students Supervised	<ul style="list-style-type: none"> - Elif Ozkaya - Ph.D. in Molecular Biology - ELN Gene Mutations in Pleuroparenchymal Pleuritis - Servet Batmaz- Ph.D. in Molecular Biology - Using Bioinformatics Tools for Cancer Diagnostics - Yesim Fidan - M.Sc. in Molecular Biology - Inhibition of Metastasis using miRNA Nanovectors - Yildiz Alkilic - M.Sc. in Molecular Biology - Effect of Honey on Skin, Lung and Prostate Cancer Cells - Neslihan Akarsu - M.Sc. in Molecular Biology - Genetic Variants of Learning Disorders Candidate Genes

Community Service	
Raindrop Foundation San Antonio (2019 – Present)	<p>- Event Coordinator: I plan, organize, and execute a variety of events and programs promoting cultural exchange, interfaith dialogue, and community engagement in San Antonio. My responsibilities include developing event concepts aligned with RFSA's mission, coordinating logistics, creating promotional materials, liaising with community partners, recruiting and managing volunteers, ensuring event execution meets established standards, collecting feedback for evaluation, and maintaining accurate records. I play a key role in fostering positive relationships within the community and contributing to RFSA's mission of promoting acceptance, understanding, and integration across cultural and religious lines.</p>

PUBLICATIONS

Book Chapters

1. **Ferhat Ozturk**, Andrea Karyme Lozano, Christina Ndasiyenga, Ayse Celik Yilmaz: **A Systematic Review of Honey's Benefits for Burn Wound Treatment**. Health Benefits of Honey and Propolis. InTechOpen – Edited by Vagner De Alencar Arnaut De Toledo – **Published** November 2024
2. **Ferhat Ozturk**, Kürşat Efil, Yunus Bekdemir: **“Which Honey for Apitherapy?”**. Bee Products and Health - Apitherapy, Edited by Eren Akçiçek, Banu Yücel, 11/2015: Ch 14: Pg 99-106; Sidas., ISBN: 9786055267261
3. Kamaruddin Mohd Yusoff, Yunus Bekdemir, **Ferhat Ozturk**, Zainabe Syed Akka, Anwar Suhaimi, Mohd Razif Mohd Ali, Mohd Yasim Bin Mohd Yusoff: **“Effect of Honey Dressing on Healing of Chronic Wounds and Ulcers”** Bee Products and Health - Apitherapy, Edited by Banu Yücel, Eren Akçiçek, 10/2015: Ch 11: Pg 78-89; Sidas., ISBN: 9786055267261

Journal Publications

1. Frank A.D.T.G. Wagener, Juraj Majtan, Dimitris Mossialos, **Ferhat Ozturk**, Piotr Szweda, Tom Coenye, Jacques Meis, Katrina Brudzynski, Mihai Netea, Manuel Simões, Niels A.J. Cremers. Back to the Future: **Honey as Rediscovered Natural Medicine to Combat Antimicrobial Resistance** - Manuscript submitted
2. Linsey J.F. Peters, Juraj Majtan, Dimitris Mossialos, Piotr Szweda, Cristina Mateescu, **Ferhat Ozturk**, Frank A.D.T.G. Wagener, Niels A.J. Cremers **Medical-grade honey: its definition and refined standards** J Wound Care 2025 Jun 2;34(6):412-423. doi: 10.12968/jowc.2024.0206
3. Abdelhadi Hbib, Ferhat Ozturk, I Maroui. **Honey Compounds Exhibit Antibacterial Effects Against Aggregatibacter actinomycetemcomitans JP2**. Abdelhadi Hbib*, Amine Ezzahi, Ferhat Ozturk, Niels A.J. Cremers, Jalal Kasouati, Ahmad Moussaif, Anders Johansson, Mimoun Zouhdi, Babacar Touré and Itto Maroui
4. Oceanna Escibano, Ahmad Hassan, **Ferhat Ozturk**. **Behavioral Responses of Honey Bees (Apis mellifera) to Annular and Total Solar Eclipses**. Manuscript in preparation
5. Temiyemi Adewumi, **Ferhat Ozturk**. Protecting Beef Meat from Lipid Oxidation Through the Power Of Texas Honeys. Manuscript in preparation
6. Victoria Garcia, Keyla Castillo, Devyani Misra, **Ferhat Ozturk** -**Biological Activity Levels (BAL) of Texan Honeys** – Manuscript in preparation
7. Amber Arooj, **Ferhat Ozturk**, Richard Willson, Kelly Nash **Pollen Analysis of Manuka Honeys** - Manuscript in preparation
8. Rachel Hagen, **Ferhat Ozturk** **New Research in Ancient Remedies: A Case for Honey in the Emergency Room**. Journal of Emergency Nursing Manuscript in preparation
9. **Ferhat Ozturk**, Elizabeth Sheldon, Janki Sharma, Kemal Murat Canturk, Hasan H. Otu, Ali Nawshad **Nicotine Exposure during Pregnancy Results in Persistent MES with Type B and C Patterns of Palatal Fusion**. Nicotine & Tobacco Research 2016 May;18(5):604-12; doi:10.1093/ntr/ntv227
10. Ozlem Saral, Oktay Yildiz, Rezzan Aliyazicioglu, Esin Yulug, Sinan Canpolat, **Ferhat Ozturk**, Sevgi Kolayli: **Apitherapy Products Enhances the Recovery of CCl4-Induced Hepatic Damages in Rats**. Turkish J of Medical Sci

- 2016 Jan 5; 46(1): 194
11. Sergiu Chira, Carlo S Jackson, Iulian Oprea, **Ferhat Ozturk**, Michael S Pepper, Iulia Diaconu, Cornelia Braicu, Lajos-Zsolt Raduly, George A Calin, Ioana Berindan-Neagoe.; **Progresses towards safe and efficient gene therapy vectors**. Oncotarget 2015 Oct 13;6(31):30675-703 doi:10.18632/oncotarget.5169
 12. Irem Meteoglu, Nazli C. Kavas, Muge Saricaoglu, Fatih Ilkaya, Hasan Guzel, Omer Alici, **Ferhat Ozturk**: *Chestnut Honey and Sherbet Enhance the Healing of Burn Wounds in Rat Model*. Clinical and investigative medicine. Médecine clinique et experimentale Aug 2015; 38(4):267-273
 13. Hu L, Liu J, Li Z, **Ozturk F**, Gurumurthy C, Romano RA, Sinha S, Nawshad A. **TGFβ3 regulates periderm removal through ΔNp63 in the developing palate**. J Cell Physiol. 2015 Jun;230(6):1212-25. doi: 10.1002/jcp.24856. PMID: 25358290.
 14. **Ferhat Ozturk**, You Li, Xiujuan Zhu, Chittibabu Guda, Ali Nawshad: **Systematic analysis of palatal transcriptome to identify cleft palate genes within TGFbeta3-knockout mice alleles: RNA-Seq analysis of TGFbeta3 Mice**. BMC Genomics 2013 Feb 20;14:113. doi: 10.1186/1471-2164-14-113
 15. Oktay Yıldız, Zehra Can, Ozlem Saral, Esin Yuluğ, **Ferhat Oztürk**, Rezzan Aliyazıcıoğlu, Sinan Canpolat, Sevgi Kolaylı: *Hepatoprotective potential of chestnut bee pollen on carbon tetrachloride-induced hepatic damages in rats*. Evidence-based Complementary Alternative Medicine 2013;461478. doi: 10.1155/2013/461478.
 16. Xiujuan Zhu, **Ferhat Ozturk**, Changchih Liu, Gregory G Oakley, Ali Nawshad: *Transforming growth factor-β activates c-Myc to promote palatal growth*. Journal of Cellular Biochemistry 2012 Oct;113(10):3069-85. doi: 10.1002/jcb.24184
 17. **Ferhat Ozturk**, Paul J Park, Joseph Tellez, Evan Colletti, Maribeth V Eiden, Graça Almeida-Porada, Christopher D Porada: *Expression levels of the PiT-2 receptor explain, in part, the gestational age-dependent alterations in transduction efficiency after in utero retroviral-mediated gene transfer*. The Journal of Gene Medicine 2012 Mar;14(3):169-81.
 18. Xiujuan Zhu, **Ferhat Ozturk**, Sanjit Pandey, Chittibabu Babu Guda, Ali Nawshad: *Implications of TGFβ on Transcriptome and Cellular Biofunctions of Palatal Mesenchyme*. Frontiers in Physiology 2012 Apr 10;3:85.
 19. **Ferhat Ozturk**: *Playing with Genes: Gene Therapy*. The Fountain Magazine. 01/2010; (January- 2010)
 20. Paul J Park, Evan Colletti, **Ferhat Ozturk**, Josh A Wood, Joe Tellez, Graça Almeida-Porada, Christopher D. Porada: *Factors determining the risk of inadvertent retroviral transduction of male germ cells after in utero gene transfer in sheep*. Human gene therapy 2009 Mar;20(3):201-15
 21. Christopher D Porada, Paul J Park, Joe Tellez, **Ferhat Ozturk**, Hudson A Glimp, Graça Almeida-Porada, Esmail D Zanjani: *Male germ-line cells are at risk following direct-injection retroviral-mediated gene transfer in utero*. Molecular Therapy 11/2005; 12(4):754-62

Conference Proceedings

1. **Ferhat Ozturk**, Fatih Ilkaya, Hasan Guzel, Omer Alici. *Honey with High Bioactivity Accelerate the Recovery of Topical Burn Wounds in Rat Model*. SAWC Spring Conference 25-29 April 2018 – Charlotte, NC
2. **Ozturk Ferhat** *Honey as a Medicine: History and Today*. Michigan Beekeepers Association Spring Conference (Invited Speaker). March 2018 – Lansing, MI
3. **Ferhat Ozturk** iGEM- The International Genetically Engineered Machine Gymboree - competition – Nov 9-13 2017 Hynes Convention Center - Boston, MA
4. **Ozturk Ferhat** *Biological Activity of Pure Honey on Wound Healing and Cancer*. Michigan Beekeepers Association Fall Conference (Invited Speaker). November 2017 – Kalamazoo, MI
5. **Ozturk Ferhat**. *Honey in Cancer Treatment: An Integrative Approach for Therapy*. TOBAT 7th International Medical Student Congress (Invited Speaker). April 2016 – Ankara, TR
6. **Ozturk Ferhat** *Biological Activities of Pure Honey on Wound Healing Mechanism*. The 2nd International Conference On Quality Medication (Invited Speaker). April 2016 – Jeddah, KSA
7. **Ferhat Ozturk**, Ramazan Ozturk: *Targeted and efficient delivery of RNAi agents using gold nanoparticles*. 3rd International Conference and Exhibition on Cell & Gene Therapy. October 2014 - Las Vegas, NV, USA
8. Kamaruddin Mohd Yusoff, **Ferhat Ozturk**, Kürşat Efil, Aysel Veyisoglu: *Honey Purity Criteria: A Malaysian Experience for Turkey*. Uluslararası Katılımlı V. Marmara Arıcılık Kongresi. April 2013 Bursa, TR

9. J.L. Poeschl, X. Zhu, **F. Ozturk**, P.M. Spalding, A. Nawshad: *Histometric Palatal Analysis of Embryonic TGFβ3 Transgenic Mice Alleles*. IADR/AADR/CADR General Session and Exhibition March 2013. Seattle, WA
10. **Ferhat Ozturk**, Devendra K. Agrawal. Inhibition of Neointimal Hyperplasia via Viral Delivery of Novel Genes. Cardiovascular Cell and Gene Therapy Congress IV, April 11-13, 2008, New York, NY
11. **Ozturk F.** Porada CD. Assessment of Factors Affecting the Efficiency in utero Gene Transfer via Retroviral Vectors. Granlibakken Retreat. October 20-21, 2007, Tahoe City, CA
12. **Ferhat Ozturk**, Paul Park, Joe Tellez, Wayne B. Anderson, Maribeth Eiden, Esmail D. Zanjani, Graca Almeida-Porada, Christopher D. Porada: *750. Expression Levels of the Amphotropic Receptor May Explain Gestational Age-Dependence of Tissue Transduction in Fetal Sheep*. Molecular Therapy 04/2005
13. Christopher D Porada, Paul J Park, Graça Almeida-Porada, Wansheng Liu, **Ferhat Ozturk**, Hudson A Glimp, Esmail D Zanjani: *Gestational age of recipient determines pattern and level of transgene expression following in utero retroviral gene transfer*. Molecular Therapy 03/2005; 11(2):284-93
14. **Ozturk F.** Porada CD. Factors Influencing the Efficiency of Retroviral in utero Gene Therapy. Granlibakken Retreat. October 21-22, 2005, Tahoe City, CA

Skills & Activities

Laboratory Skills

Cell Biology: Cell Culture, Stem Cells, Cancer Biology, Cancer Stem Cells, Signaling Pathways, Craniofacial Development, Palatogenesis, Primary Cells, RTCA, Stable cell lines,

Molecular Biology: CRISPR, Real-Time qPCR, Molecular Cloning, Gene Regulation, Plasmid Construction, Restriction Enzymes, Transfection, Bacterial Transformation, RNA Interference, miRNA Extraction and Analysis

Bioinformatics: Next Generation Sequencing, Transcriptomics, Microarray, Genomics, Cancer Bioinformatics, Primer Express, Galaxy, BioConductor (R Language)

Microscopy: Confocal Laser Scanning Microscopy, Laser Capture Microdissection, Immunohistochemical Staining, TUNEL Assay

Gene Therapy: Retroviral Transduction, Gene Expression, Recombinant Gene Therapy, Retroviral Vector, Adenoviral Vector, Adeno-associated Virus, Sheep, *in utero* gene therapy, Viral Vectors, Nanovectors, BSL-2 Certificate

Biochemistry: Protein Extraction and Quantitation, ELISA, SDS-PAGE, Western Blotting, Gas Chromatography–Mass Spectrometry, Total Phenolic Contents, Antioxidant Activity

Microbiology: MIC, Biofilms, Antibacterial activity, Bioactivity, Honey, Apitherapy

Animal Models: IACUC Training Certificate on mouse, rat, pig and sheep models. Ultrasound-guided injection to large and small animal models.

Languages

English (fluent in speaking and writing), Turkish (native)