

Prof. Dr. ŞÜKRÜ TÜZMEN, *B.S., M.S., Ph.D.*
sukru.tuzmen@emu.edu.tr
https://orcid.org/0000-0003-4822-396X
http://www.linkedin.com/in/sukrutuzmen
https://www.researchgate.net/profile/Sukru_Tuzmen

EDUCATION AND ACADEMIC DEGREES

NIH Fogarty Postdoctoral Visiting/Research Fellow,
The Laboratory of Chemical Biology, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), Bethesda, MD., U.S.A.
Major: Molecular Biology and Genetics.

Ph.D., Department of Molecular Biology and Genetics, Bogaziçi University, Istanbul, Türkiye.
Major: Molecular Biology and Genetics (With Thesis).

M.S., Department of Biology, Bogaziçi University, Istanbul, Türkiye.
Major: Biology (With Thesis).

B.S., Department of Biology, Bogaziçi University, Istanbul, Türkiye.
Major: Biology.

SELECTED CAREER ACHIEVEMENTS, RESEARCH INTERESTS, AND RELEVANT SCIENTIFIC/ADMINISTRATIVE EXPERIENCE

- **Posses** strong creative problem-solving skills.
- **Designed numerous online and face to face academic curricula** and **worked with many faculty members** to ensure excellent programatic outcomes.
- **Trained, and mentored** undergraduate/graduate students, postdoctoral fellows, research associates, interns and visiting scientists from national and international laboratories at NIH, Tgen, AZ, U.S.A., Türkiye, and Cyprus.
- **Supervised** many undergraduate, graduate, and post-doctoral students at NIH, Tgen, Bogazici University and Eastern Mediterranean University (EMU).
- **Independently managed grants** as a PI and co-PI within Tgen, and at other academic institutions, including Arizona State University (ASU), Mayo Clinic, AZ, U.S.A., and UNDP, Cyprus.

- **Applied for numerous grants** at institutions and private sectors including Susan G. Komen Foundation, Mayo Clinic, and Prostate Cancer Foundation etc. as a PI and co-PI with collaborators within Translational Genomics Reserach Institute (Tgen), and at other academic institutions, including Arizona State University (ASU), and Mayo Clinic, AZ, U.S.A.
- **Leader**, the validation part of a **$5M U.S.D.** project for RNAi high-throughput screening at Tgen, AZ, U.S.A.
- **Served** as an international reviewer on peer-review panels, AZ, U.S.A., Pakistan, Türkiye and Cyprus.
- **Developed diagnostic assays** including utilization of extracellular microvesicles (exosomes), micro RNAs (miRNAs) / gene signatures, utilizing patient samples such as blood, serum, and tissues to screen via proprietary techniques for the diagnosis of certain cancer types/genetic disorders at Tgen, AZ, U.S.A.
- **Developed diagnostic assays** based on amplification technology and application of high-throughput screening of beta-thalassemia mutations, using an electrochemical detection platform and glass microarray screening systems at NIH, MD, U.S.A.
- **Developed knock-out cloning models** of potential 5' flanking control regions of the epsilon (embryonic) globin gene utilizing Cre-Lox cloning system at NIH, MD, U.S.A.
- **Established a COVID-19 Screening lab from scratch**, in 2020 at the Famagusta, Cyprus State Hospital during the times when the resources were scarce all aroud the world and initiated fully active screening regimens in as short as a 10-day preparation period.
- **Successful** as an Adjunct Associate Professor at the University of Maryland University College (UMUC) since 2001, and prepared numerous syllabi, and delivered many lectures on Molecular Biology and Genetics, Cell biology, and Biotechnology related subjects, MD, U.S.A.
- **Set up** nucleic acid-based research/diagnostic molecular biology laboratories at Bogazici University, Türkiye, and Tgen, AZ, U.S.A.
- **Established** qPCR assays for the key cancer, globin gene regulation, cholesterol biosynthesis, and endometriosis related genes at Tgen.
- **Have a mission** as a scientific researcher/leader to utilize novel technologies to discover and validate links between gene states and disease phenotypes, and further use these links to identify druggable targets to be deployed as bio-signatures in the diagnosis of genetic diseases.
- **Active in** scientific research that involves protein, DNA and/or RNA-based novel technologies and population-based screening of rare genetic disorders.
- **Founder and Director**, **GenBiomics R&D**, at The Technopark of Eastern Mediterranean University (EMU), Famagusta, Cyprus.
- **Helped establish**, the Infrastructure of the General and Molecular Genetics Laboratories at The Eastern Mediterranean University (EMU), Department of Biological Sciences, Famagusta, Cyprus.
- **Founder and Mentor**, the EMU Students's Genetics Club, at The Eastern Mediterranean University (EMU), Famagusta, Cyprus.
- **Delivered numerous Invited Scientific and Public Talks,** towards the "Awareness of Drug and Disease Interactions", U.S.A., Europe, Asia, Türkiye, and Cyprus.
- **Applied for grants** at the Turkish Scientific Council (**TUBITAK**), and other private sectors as a

PI and co-PI with collaborators within Eastern Mediterranean University (EMU) and Turkish Universities, and at other academic/government institutions, Famagusta, Cyprus.

- **Organizer**, **Eight** "***International EMU Genetics Club Student Symposia, since 2015*"**,** Eastern Mediterranean University (EMU), Famagusta, Cyprus.

EMPLOYMENT HISTORY

April 2019 – 2025	**Vice Dean** Faculty of Dentistry Eastern Mediterranean University, Famagusta, Cyprus.
March 2019 - present	**Professor** Faculty of Dentistry Eastern Mediterranean University, Famagusta, Cyprus.
March 2017- present	**Founder, CEO/CSO** GenBiomics Research & Development Eastern Mediterranean University, TeknoPark, GMTGB Building, Famagusta, Cyprus.
Nov. 2015 - January 2019	**Director** EMU, Ethics Committee Eastern Mediterranean University, Famagusta, Cyprus.
Sept. 2022 – Sept. 2023	**Chairman** EMU, Student Disciplinary Committee Eastern Mediterranean University, Famagusta, Cyprus.
Nov. 2012 - March 2019	**Associate Professor** Faculty Member, Molecular Biology and Genetics Program Department of Biological Sciences Faculty of Arts and Sciences Eastern Mediterranean University, Famagusta, Cyprus.
Feb. 2012 - Nov. 2012	**Assistant Professor** Faculty Member, Molecular Biology and Genetics Program Department of Biological Sciences Faculty of Arts and Sciences Eastern Mediterranean University, Famagusta, Cyprus.
2011 – 2012	**Vice President** AlphaGenics, Inc., "A Wellness Genetics Company" Gaithersburg, MD., U.S.A.
2009 – present	**Adjunct Investigator** The Translational Genomics Research Institute (TGen), Scottsdale, AZ., U.S.A.

2008 – present	**Adjunct Professor** Arizona State University (ASU), The Department of Biomedical Informatics (BMI), The School of Computing and Informatics (SCI), Phoenix, AZ., U.S.A.
2001 – present	**Adjunct Associate Professor** University of Maryland University College, (UMUC), University Boulevard at Adelphi Road, College Park, MD., U.S.A.
2007 – present	**Freelance Scientific Consultant** U.S.A., Canada, Türkiye, and Cyprus.
2002 – 2009	**Investigator & Head, Molecular Genetics Laboratory,** The Translational Genomics Research Institute (TGen), Pharmaceutical Genomics Division, Gaithersburg, MD, and Scottsdale, AZ., U.S.A.
2001 – 2002	**Senior Research Associate (Laboratory Manager)** Uniformed Services University of Health Sciences (USUHS), The Department of Biochemistry and Molecular Biology Bethesda, MD., U.S.A.
1996 – 2001	**Fogarty Post-Doctoral Fellow/Research Fellow** National Institutes of Health (NIH), The Laboratory of Chemical Biology (LCB) National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Molecular Biology and Genetics Bethesda, MD., U.S.A.
1990 – 1996	**Research Assistant and Teaching Assistant** Bogaziçi University, The Department of Molecular Biology and Genetics, Istanbul, Bebek-Türkiye.

ACADEMIC APPOINTMENTS

2019 – 2023	**Elected Professor Senator,** Eastern Mediterranean University (EMU) Senate Famagusta, Cyprus.
2019 – 2025	**Vice Dean, Faculty of Dentistry** Eastern Mediterranean University (**EMU)**, Famagusta, Cyprus.

2017-2019	**Turkish Institutes of Health** (**TUSEB), The Sole Turkish Republic of Northern Cyprus (T.R.N.C.) Scientific Committee Member (out of 30),** Ankara, Türkiye.
2015-2019	**Director**, **Ethics Committee,** Eastern Mediterranean University (**EMU)** Famagusta, Cyprus.
2012-2015	**Vice Director, Ethics Committee**, Eastern Mediterranean University (**EMU**) Famagusta, Cyprus.
2005-2009	**Department Chair**, Molecular Biology and Genetics Department, Translational Genomics Research Institute (**TGen**), Arizona, A.B.D.

AFFILIATIONS

The Translational Genomics Research Institute (TGen), U.S.A.	**Adjunct Investigator**
Arizona State University (ASU), U.S.A.	**Adjunct Professor**
University of Maryland University College (UMUC), U.S.A.	**Adjunct Assoc. Professor**
European Society of Human Genetics (ESHG)	**Mentor/Supervisor**

M.S. AND PH.D. THESES SUPERVISED/CONSULTED (Ongoing and Completed)

M.S. Theses

1. Pasandideh R., “Spectral Studies on Intermolecular Interaction of Chiral Perylene Diimide with DNA”, EMU, Famagusta, Cyprus, July, 2013.

2. Kılgöz H., “Molecular Approaches for Downregulating Heme-mediated Immune Response”, Bilkent University/Eastern Mediterranen University Famagusta, Cyprus, August, 2018.

3. Rajab A. A., “Interactions of Novel Sets of Perylene Dianhydrides and a Diimide with G-Quadruplex Structures in Human DNA” Eastern Mediterranen University (EMU), Famagusta, Cyprus, July, 2018.

4. Özbil T., “Interactions of Novel Sets of Naphthalene Diimides with G-Quadruplex Structures in Human DNA” Eastern Mediterranen University (EMU), Famagusta, Cyprus, January 2019.

Ph.D. Theses

1. Çetin, İ. N., "Petri Net-Based Quantitative Modeling and Validation of p16-mediated Signaling Pathway" EMU, Famagusta, Cyprus, January 2016.

2. Mehraei, M., "Exploiting hybrid functional Petri nets to investigate transcriptional activity of Hemoglobin Switching" EMU, Famagusta, Cyprus, July 2016.

3. Abdallah R. S., "Comprehensive Transcriptomics Analysis of Hydroxyprogesterone-Induced Alterations in Breast Cancer" NEU, Nicosia - EMU, Famagusta, T.R.N.C., Mersin 10-Türkiye, (Work in progress 2026).

4. Manal S. Babiker Ali, "Identification of miR-339-3p as a Non-Invasive Biomarker for Early Detection and Therapeutic Targeting in Breast Cancer: An In-Silico Approach" NEU, Nicosia - EMU, Famagusta, T.R.N.C., Mersin 10-Türkiye, (Work in progress 2026).

PROFESSIONAL PUBLICATIONS

1. Abdallah Rafi, **Şükrü Tüzmen***, Osman Uğur Sezerman and Fikret Dirilenoğlu "Comprehensive Transcriptomic Analysis and Biomarker Prioritization of Hydroxyprogesterone in Breast Cancer" Current Issues in Molecular Biology, MDPI **(SCIE),** 48, 18:2-16, 2026.
Special Issue Linking Genomic Changes with Cancer in the NGS Era, 3rd Edition Edited by Prof. Dr. Javier Azúa-Romeo. https://doi.org/10.3390/cimb48010108

2. Behnam Pourhassan, İzzet Sakallı, **Şükrü Tüzmen**, Xiaopin Shi, Mir Faizal "Higher-order corrections on the denaturation of homogenous DNA thermodynamics" A Journal of Physical Sciences, Zeitschrift für Naturforschung A, **(SCIE)** De Gruyter, 80(3)a:259-273, 2025. (https://doi.org/10.1515/zna-2024-0200)

3 . UNDP, Technical Committee on Health "Mapping Risk for Vector-Borne Disease (ID-VRisk)" Project Detection of Aedes Aegypti in the island of Cyprus. Notarides, Gregoris / Ergil, Ceyda -(Researchers), Meletiou, Sotiris / Soganci, Mustafa –(Technicians), Vasquez, Marlen I. /**Tuzmen, Sukru** –(Scientists/chief researcher), Petric, Dusan – (QA/QC Scientist), Orek, Yesim /Vasquez, Marlen I. –(Coordinators), May 13 2024.
(https://www.undp.org/cyprus/publications/technical-committee-health-mapping-risk-vector-borne-diseases-id-v-risk-project-detection-aedes-aegypti-island-cyprus)

4. Arwa Abourajab, S. Melika Mostafanejad, Meltem Dinleyici, Basma Al-Khateeb, Imge Kunter, **Sukru Tuzmen** and Huriye Icil "Synthesis, characterization, anti-cancer evaluation, and DNA-binding study of new bay-substituted perylene derivatives" Journal of Biology and Medicine, (open access) 31-43, 2023.

5. Nimet İlke Akçay, Benedek Nagy, **Şükrü Tüzmen "**Reaction Systems for Modeling and Validation of Biological Signaling Pathways: G1/S Checkpoint of the Cell Cycle". Acta Polytechnica Hungarica **(SCIE),**18 (6): 7-23, 2021.

6. **Sukru Tuzmen**, "RNAi-based personalized therapeutic strategies in Oral Cancers: How far have we come" Dentistry, Vol.11. Issue 7, 2021.

7. Mani Mehraei, Benedek Nagy, Nimet Ilke Akcay, **Şükrü Tüzmen "**Potential Therapeutic Modalities of Reawakening Fetal Hemoglobin Simulated by Reaction Systems". Acta Polytechnica Hungarica **(SCIE),**16 (3): 51-65, 2019.

8. **Şükrü Tüzmen,** Galen Hostetter, Aprill Watanabe, Cumhur Ekmekçi, Patricia Carrigan, Ishaiahu Shechter, Olli Kallioniemi, Laurence Miller, and Spyro Mousses "Characterization of Farnesyl Diphosphate Farnesyl Transferase 1 (FDFT1) Expression in Cancer". Personalized Medicine **(SCIE),**16 (1): 19-35, 2019.

9. N. Aşan Baydemir, **Ş. Tüzmen** "Cave Ecosystems of Türkiye and Northern Cyprus: A Hidden World for Bats**".** J. Int. Environmental Application & Science, Vol. 11(3): 255-262, 2016.

10. Mehraei M, Bashirov R, **Tüzmen Ş,** "Target-based drug discovery for Beta-globin disorders: drug target prediction using quantitative modeling with hybrid functional Petri nets". J Bioinform Comput Biol. **(SCIE),** 14 (5), 2016.

11. Nimet İlke Akçay Bashirov R, **Tüzmen Ş**, "Validation of Signalling Pathways: Case Study of the p16-Mediated Pathway". J Bioinform and Comput Biol. **(SCIE),** 13 (2), 2015.

12. Yalinca Z., Yilmaz E., Taneri B., Bullici F., **Tuzmen S.** "Blood contact properties of ascorbyl chitosan". J Biomater Sci Polym Ed. **(SCI),** 24 (17): 1969-87 pp., 2013.

13. Aline Mamo, Luca Cavallone, **Sukru Tuzmen**, Catherine Chabot, Cristiano Ferrario, Saima Hassan, Henrik Edgren, Olli Kallioniemi, Olga Aleynikova, Ewa Przybytkowska, Kristin Malcolm, Spyro Mousses, Patricia N. Tonin and Mark Basik. "An integrated genomic approach identifies ARID1A as a candidate tumor suppressor gene in breast cancer". Oncogene **(SCI),** Vol. 31, 2090-2100 pp., 2012.

14. Sevtap Savas, David O. Azorsa, Hamdi Jarjanazi, Irada Ibrahim-Zada, Irma M. Gonzales, Shilpi Arora, Meredith C. Henderson, Yun Hee Choi, Laurent Briollais, Hilmi Ozcelik, and **Sukru Tuzmen**. "NCI60 Cancer Cell Line Panel Data and RNAi Analysis Help Identify EAF as a Modulator of Simvastatin and Lovastatin Response in HCT-116 Cells", PLoS ONE **(SCIE),** Vol. 6, No 4, e18306. 2011.

15. Yesim Gökmen-Polar, Mangesh A. Thorat, **Sukru Tuzmen**, Jamie B. Hadley, Kerry L. Sanders, Dmitry Turbin, Samuel Leung, David G. Huntsman, George W. Sledge, Jr., and Sunil Badve, "Differential subcellular expression of protein kinase C βII in breast cancer- correlation with breast cancer subtypes", Breast Cancer Research and Treatment **(SCI),** 124 (2): 327-35, 2010.

13. Z. Lacroix, C.R.L. Legendre, and **S. Tuzmen**, "Reasoning on Scientific Workflows", IEEE Computer Society **(SCIE),** Vol. 1, 306-313 pp., 2009.

14. Basu GD, Azorsa DO, Kiefer JA, Rojas AM, **Tuzmen S**, Barrett MT, Trent JM, Kallioniemi O, Mousses S, "Functional evidence implicating S100P in prostate cancer progression", Int J Cancer **(SCI),** Vol. 123, 330-339 pp., 2008.

15. Jarjanazi H, Kiefer J, Savas S, Briollais L, **Tuzmen S**, Pabalan N, Ibrahim-Zada I, Mousses S, Ozcelik H., "Discovery of genetic profiles impacting response to chemotherapy: application to gemcitabine", Hum Mutat. **(SCI),** Vol. 29, 461-467 pp., 2008.

16. Kuuselo R, Savinainen K, Azorsa DO, Basu GD, Karhu R, **Tuzmen S**, Mousses S, Kallioniemi A., "Intersex-like (IXL) is a cell survival regulator in pancreatic cancer with 19q13 amplification", Cancer Res **(SCI),** Vol. 67, 1943-1949 pp., 2007.

17. Huusko P, Ponciano-Jackson D, Wolf M, Kiefer JA, Azorsa DO, **Tuzmen S**, Weaver D, Robbins C, Moses T, Allinen M, Hautaniemi S, Chen Y, Elkahloun A, Basik M, Bova GS, Bubendorf L, Lugli A, Sauter G, Schleutker J, Ozcelik H, Elowe S, Pawson T, Trent JM, Carpten JD, Kallioniemi OP, Mousses S., "Nonsense-mediated decay microarray analysis identifies mutations of EPHB2 in human prostate cancer.", Nat Genet. **(SCI),** Vol. 36, 979-983 pp., 2004.

18. **Tuzmen, S**., Schechter, A. N., "Genetic diseases of hemoglobin: diagnostic methods for elucidating β-thalassemia mutations", Blood Reviews **(SCI),** Vol. 15 (1), 19-29 pp., 2001.

19. Tadmouri GO, **Tüzmen S**, Ozçelik H, Ozer A, Baig SM, Senga EB, Başak AN. , "Molecular and population genetic analyses of beta-thalassemia in Türkiye." Am J Hematol. **(SCI),** Vol. 57, 215-220 pp., 1998.

20. Altay C, Oner C, Oner R, Mesci L, Balkan H, **Tüzmen S**, Başak AN, Gümrük F, Gürgey A., "Genotype-phenotype analysis in HbS-beta-thalassemia." Hum Hered **(SCI),** Vol. 47, 161-164 pp., 1997.

21. **Tüzmen S**, Basak AN, Baysal E., "Rare beta-thalassemia mutation IVS-II-848 (C-A) first reported in a Turkish Cypriot family." Am J Hematol. **(SCI),** Vol. 54, 338-339 pp., 1997.

22. Tadmouri GO, **Tüzmen S**, Başak AN., "Rare beta-thalassemia mutation in a Turkish patient: FSC-36/37 (-T)." Hum Biol. **(SCI),** Vol. 69, 263-267 pp., 1997.

23. **Tüzmen S**, Tadmouri GO, Ozer A, Baig SM, Ozçelik H, Başaran S, Başak AN., "Prenatal diagnosis of beta-thalassaemia and sickle cell anaemia in Türkiye." Prenat Diagn. **(SCI),** Vol. 16, 252-258 pp., 1996.

24. Ozçelik H, Başak AN, **Tüzmen S**, Kirdar B, Akar N., "A novel deletion in a Turkish beta-thalassemia patient detected by DGGE and direct sequencing: FSC 22-24 (-7 bp).", Hemoglobin **(SCIE),** Vol. 17, 387-391 pp., 1993.

REVIEW ARTICLES

1. Malak Rizk, **Şükrü Tüzmen** "MicroRNAs and microbiota: Is there a crosstalk?" Drugs of Today **(SCIE),** Clarivate Analytics, 56 (3): 211-226, 2020.

2. Malak Rizk, **Şükrü Tüzmen** "Patisiran for the treatment of patients with familial amyloid polyneuropathy" Drugs of Today **(SCIE),** Clarivate Analytics, 55 (5): 1-13, 2019.

3. Malak Rizk, **Şükrü Tüzmen,** "Update on the clinical utility of an RNA interference-based treatment: focus on Patisiran" Pharmacogenomics Pers Med., **(SCIE),** DovePress, 10, 267-278, 2017.

4. **Şükrü Tüzmen**, Zulal Yalinca, "Bio-based Platforms for siRNA Delivery as Bio-therapeutics" Anadolu University Journal of Science and Technology C- Life Sciences and Biotechnology, Anadolu University, DOI: 10.18036/aubtdc.315579, 2017.

5. **Sukru Tuzmen**, "Quantitative Real-time Polymerase Chain Reaction in Cancer Drug Target Identification and Validation" Drug Discovery 2007, Genomics, Touch Briefings, 27 – 28, 2007.

6. **Tuzmen, S**., Schechter, A. N., "Genetic diseases of hemoglobin: diagnostic methods for elucidating beta-thalassemia mutations" Blood Reviews **(SCI),** 15(1): 19 – 29, 2001.

BOOK CHAPTERS BY INVITATION

1. **Şükrü Tüzmen,** Hülya Şenol, **"**Kalıtım ve Çevresel Faktörlerin Otizm Etyolojisinde Rolleri", Bölüm 2, Multidisipliner Bakış Açısı ile Otizm, Birinci Baskı, pp. 30-41, Nilgün Sarp, Hülya Şenol, (Eds.) Nobel Akademik Yayıncılık, Ekim 2025.

2. Isfendiyar Darbaz, Gizem Morris and **Şükrü Tüzmen**, "Prevention and Control Strategies for COVID-19 Pandemic", Chapter 4, COVID-19: From Bench to Bedside, First Edition, D. Bahr, K. Lundstrom, (Eds.) CRC Press: Taylor & Francis Group, March 2022.

3. Hülya Şenol and **Şükrü Tüzmen**, "Global Focus and Interdisciplinary Approaches in COVID-19 Research and Their Outcomes", Chapter 5, COVID-19: From Bench to Bedside, First Edition, D. Bahr, K. Lundstrom, (Eds.) CRC Press: Taylor & Francis Group, March 2022.

4. Didem Rıfkı, Eymen Ü. Kılıç and **Şükrü Tüzmen**, "Convalescent Plasma and Antibody Therapy in COVID-19", Chapter 8, COVID-19: From Bench to Bedside, First Edition, D. Bahr, K. Lundstrom, (Eds.) CRC Press: Taylor & Francis Group, March 2022.

5. Candan Hizel Perry, Havva Ö. Kılgöz and **Şükrü Tüzmen**, "Clinical trials of COVID-19 therapeutics and vaccines: history, current status, and limitations", Chapter 14, COVID-19: From Bench to Bedside, First Edition, D. Bahr, K. Lundstrom, (Eds.) CRC Press: Taylor & Francis Group, March 2022.

6. Zulal Yalinca, **Şükrü Tüzmen**, "Application for Biopolymeric Gels in Medical Biotechnology", Chap. 4, Bio Monomers for Green Polymeric Composite Materials, First Edition, P. M. Visakh, O. Bayraktar, and G. Menon, (Eds.) John Wiley & Sons Ltd, UK, 77-94, 2019.

7. Hızel C., **Tuzmen S.**, Amirfallah A., Çalibaşi Koçal G., Onat H., Yıldırım Y., Baskın Y. "Precision medicine in colorectal cancer" Chap. 4, D. D. Barh (Ed.)" Precision Medicine in Oncology", Taylor & Francis, 2019.

8. **Şükrü Tüzmen,** Yasemin Baskın, Ayşe Feyda Nursal, Serpil Eraslan, Yağmur Esemen, Gizem Çalıbaş, Ayşe Banu Demir, Duygu Abbasoğlu, Candan Hızel, "OMICS TECHNOLOGIES AND BIO-ENGINEERING: towards improving quality of life "Academic Press imprint: Elsevier, USA, 263-302, 2018.

9. Son A. Y., **Tüzmen Ş.**, Hizel C., Omics for Personalized Medicine, "Designing and Implementing Pharmacogenomics Study: Appropriateness and Validation of Pharmacogenomics" Chapter 6, Springer, 97-122, 2013.

10. **Tuzmen S.,** Tuzmen P., Arora S., Mousses S., Azorsa D., "RNAi-Based Functional Pharmacogenomics", Methods and Protocols, In: Methods in Molecular Biology*, 1, vol. 700: Disease Gene Identification, Part 4,* Johanna K. DiStefano Ed., Springer, New York, USA, 271-290, 2011.

11. Basak A.N., **Tuzmen S.,** "Genetic Predisposition to Beta-Thalassemia and Sickle Cell Anemia in Türkiye: A Molecular Diagnostic Approach", Methods and Protocols, In: Methods in Molecular Biology*, 1, vol. 700: Disease Gene Identification, Part 4,* Johanna K. DiStefano Ed., Springer, New York, USA, 291-307, 2011.

12. Carrigan P.E., Ballar P., **Tuzmen S.,** "Site-directed Mutagenesis", Methods and Protocols, In: Methods in Molecular Biology*, 1, vol. 700: Disease Gene Identification, Part 4,* Johanna K. DiStefano Ed., Springer, New York, USA, 107-124, 2011.

13. **Sukru Tuzmen,** Jeff Kiefer, and Spyro Mousses, "Validation of siRNA Knockdowns by Quantitative Real-Time PCR", Methods in Molecular Biology, In: Methods in Molecular Biology*, vol. 353: Protocols for Nucleic Acid Analysis by Non-radioactive Probes, Second Edition*, E. Hilario and J. Mackay Eds., Humana Press, Totowa, USA, 177-203, 2007.

INTERNATIONAL CONFERENCE ABSTRACTS AND PROCEEDINGS

1. Mihriban Kızıltan, Hülya Şenol, Serdal Işıktaş, **Şükrü Tüzmen*** "Death anxiety and depression levels of elderly individuals with Alzheimer's disease" European Society of Human Genetics (ESHG 2025), Milan, Italy, 24-27 May 2025 (Hybrid-Poster Presentation).

2. Havva O. Eyupoglu, Erol Eyupoglu, Klaus Brusgaard, **Sukru Tuzmen**, Can Erzik, Nedime Serakinci, Mustafa Akkiprik "KRAS-Driven Immune System Modulation in Pancreatic Cancer: Insights from Exosome-Mediated KRAS Inhibition" European Society of Human Genetics (ESHG 2025), Milan, Italy, 24-27 May 2025 (Hybrid-Poster Presentation).

3. H. Ö. Eyüpoğlu, E. Eyüpoğlu, **Ş. Tüzmen**. "Exploring the miRNA-Mediated Regulation of ERO1L as a Potential Prognostic Biomarker in Cervical Cancer". European Society of Human Genetics (ESHG 2024), Berlin, Germany, 01-04 June 2024 (Hybrid-Poster Presentation).

4. H. Şenol, T. C. Kurt, S. Işıktaş, **Ş. Tüzmen***. "Investigation of depression and fatigue Levels of multiple sclerosis patients". European Society of Human Genetics (ESHG 2024), Berlin, Germany, 01-04 June 2024 (Poster Presentation).

5. **Şükrü Tüzmen,** "Molecular Diagnostics in Beta-Thalessemia and Sickle Cell Anemia: Experience from Past to Present", 16th TIF International Conference on Thalassemias and Hemoglobinopaties, Kuala Lumpur, Malaysia, 3-5 November 2023 (Poster Presentation).

7. H. Ö. Eyüpoğlu, E. Eyüpoğlu, N. Serakıncı, **Ş. Tüzmen**. "Stem cell-derived exosome signature reveals immunoregulatory phenotype through downregulation of PTGES". FEBS 2023. Tours, France 8-12 July 2023 (Poster Presentation).

8. **Ş. Tüzmen *,** K. Özsat. S. Işıktaş, H. Şenol. The relationship between psychiatric symptom severity and quality of life in patients with beta- thalassemia major: North Cyprus experience. European

Society of Human Genetics (ESHG 2023). Glasgow, United Kingdom, 10-13 June 2023 (Hybrid-Poster Presentation).

9. E. Eyüpoğlu, H. Ö. Eyüpoğlu, **Ş. Tüzmen**. TUBA1C: A potential biomarker for Type II Diabetes Mellitus (T2D) associated cancer. European Society of Human Genetics (ESHG 2023). Glasgow, United Kingdom, 10-13 June 2023 (Poster Presentation).

10. H. Ö. Eyüpoğlu, E. Eyüpoğlu, **Ş. Tüzmen**. Regulation of tumor microenvironment (TME) of pancreatic cancer: A mechanistic insight for potential tumor immunotherapeutics. European Journal of Human Genetics (ESHG 2023). Glasgow, United Kingdom, 10-13 June 2023 (Poster Presentation).

11. S. H. Khodaei, S. Sabetkam, H. Ö. Eyüpoğlu, **Ş. Tüzmen**. The potential of Mummy Substance to stimulate healing in mesenchymal stem cells cultured with human fibroblasts. European Society of Human Genetics (ESHG 2023). Glasgow, United Kingdom, 10-13 June 2023 (Poster Presentation).

12. H. Ö. Kılgöz, E. Eyüpoğlu, **Ş. Tüzmen.** Carnosic Acid as Potential Anti-SARS-CoV-2 Therapeutics: A Mechanistic Insight. European Society of Human Genetics (ESHG 2022), Vienna, Austria, 11-14 June 2022 (Hybrid-Poster Presentation).

13. A. Abou Rajab, **Ş. Tüzmen**, Huriye Icil. Perylene dyes interacting with G-Quadruplex structures for future therapeutic agents. 2019 International Natural Science, Engineering and Materials Technology Conference, September 9- 10, 2019, İstanbul, Türkiye (2nd Best Oral Presentation Award).

14. N. Aşan Baydemir, **Ş. Tüzmen,** Some Ecological Observations and Anthropogenetic Threats on Egyptian Fruit Bat in Northern Cyprus, In: Proceedings International Conference on Biological Sciences (ICBS) Konya, Türkiye, October 21-23, 2016 (Oral Presentation).

15. N. Aşan Baydemir, **Ş. Tüzmen,** Cave Ecosystems of Türkiye and Northern Cyprus: A Hidden World for Bats, In: Proc. 6th International Conference of Ecosystems, Tirana, Albania, June 3-6, 2016 (Oral Presentation).

16. Çetin, İ.N., Bashirov, R., **Tüzmen, Ş**., Petri net-based modeling and simulation of p16-Cdk4/6-Rb pathway, In: Proc. 4th International Workshop on Biological Processes and Petri nets, CEUR, Vol. 988, pp.,30-44, Milan, 24-25 June 2013.

17. **Tuzmen S.,** Kiefer J, Azorsa D., Basik M., Ozcelik H., Kallioniemi O., Mousses S., The Fifth Era of Hope Meeting for the Department of Defense (DOD) Breast Cancer Research Program (BCRP), "The Fifth Era of Hope Meeting for DOD Breast Cancer Research Program (BCRP) proceedings", "New Genomic Strategies to Accelerate the Discovery of Breast Cancer Genes", - pp., Baltimore, Maryland, June 2008 (Oral Presentation).

18. Z. Lacroix, C. Legendre, and **S. Tuzmen**, Translational Genomics Research Institute (TGen) Annual Retreat 2008 konferansı dahilinde "TGen Annual Retreat 2008 proceedings" bildiri kitapçığındaki "Design and Analysis of a Fusion Protein Construct Workflow", - pp., Phoenix, Arizona, May 2008.

19. Perla Baez, Abigail Ruiz, Maricarmen Colon, Nivette Perez, Pedro Santiago, **Sukru Tuzmen**, and Idhaliz Flores, Ponce School of Medicine and Health Sciences, PSMHS Scientific Conference, "The Society for the Study of Reproduction, Inc. Biology of Reproduction proceedings", "Differential Regulation of Lysyl Oxidase Gene Family Isoforms by Steroid Hormones in Human Stromal Endometrial Cells", vol. 78, pp., 139, Ponce, Puerto Rico, May 1, 2008.

20. Yesim Gökmen-Polar, Mangesh A. Thorat, **Sukru Tuzmen**, Spyro Mousses, Jamie B. Hadley, Kerry L. Sanders, Dmitry Turbin, Samuel Leung, David G. Huntsman, Sunil Badve, and George W. Sledge, Jr., "Differential subcellular expression of protein kinase C βII in breast cancer- correlation with breast cancer subtypes", - pp., San Diego, California, April 2008.

21. Holly Yin; Gopinath Ganji; Yue Li; Quick Que; Michelle Kassner; Pinar Tuzmen; Chris Sereduk; Leslie Gwinn; **Sukru Tuzmen**; Christian Beaudry; Wu Song; Libin Ma; Caroline Wilson; Connie Poh Nee; Mahesh Kumar; Yang Xiang; Jagatheswari Virayah; Jeff Keifer; David Azorsa; Michael Barrett; Kerry Blanchard; Spyro Mousses; Greg Tucker-Kellogg. “Genome-wide RNAi synthetic lethality profiling to identify genetic determinants of Enzastaurin response” Clin Cancer Res (2007) 13 (22_Supplement): B56, Singapore, November 2007.

22. Cumhur Ekmekci, Spyro Mousses, and **Sukru Tuzmen**, Translational Genomics Research Institute (TGen) 2007 Annual Retreat "TGen 2007 Annual Retreat proceedings", "MicroRNA (miRNA) Involvement in Aberrant Promoter Methylation Facilitating Tumor Progression", - pp., Phoenix, Arizona, May 2007.

23. Cumhur Ekmekci, Spyro Mousses, and **Sukru Tuzmen**, "2007 AACR proceedings", "MicroRNA (miRNA) Involvement in Aberrant Promoter Methylation Facilitating Tumor Progression", - pp., Los Angeles, California, April 2007.

24. Sevtap Savas, Hamdi Jarjanazi, Noel Pabalan, Jeff Kiefer, **Sukru Tuzmen**, Spyro Mousses, and Hilmi Ozcelik, Oncogenomics, "Oncogenomics, AACR procedings", "Variable Response to Gemcitabine Associated with Genetic Variations in Folic Acid Metabolism Genes", - pp., Phoenix, Arizona, February 2007.

25. Hamdi Jarjanazi, Sevtap Savas**, Sukru Tuzmen,** Noel Pabalan, Irada Ibrahim-Zada, Jeff Kiefer, Spyro Mousses, Hilmi Ozcelik, "Oncogenomics, AACR proceedings", "Discovery of Novel Genetic Variants in the Pharmacobiological Networks Related to Gemcitabine Response", - pp., Phoenix, Arizona, February 2007.

26. Holly Yin, Quick Q. Que, Jeff Kiefer, Donald Chow, Christian Beaudry, Pinar Tuzmen, Leslie Gwinn, Michael Barrett, **Sukru Tuzmen**, David Azorsa, Daniel Von Hoff, Tal Zaks, Richard Wooster, Joel Greshock, Tona Gilmer, Barbara Weber, Spyro Mousses, "Oncogenomics, AACR proceedings", "High Throughput RNAi Based Cellular Pharmacogenomic to Discover Targets that Regulate Lapatinib (Tykerb®) Response", - pp., Phoenix, Arizona, February 2007.

27. H. Holly Yin, Q. Quick Que, Gopinath Ganji, Yue Li, Michelle Kassner, Pinar Tuzmen, Chris Sereduk, Leslie Gwinn, Jeff Kiefer, **Sukru Tuzmen**, David Azorsa, Richard Gaynor, Kerry Blanchard, Greg Tucker-Kellogg, and Spyro Mousses, "Oncogenomics, AACR procedings", "Establishing and Developing High Quality Cell-based Pharmacogenomic Assays for High Throughput RNAi Screening", - pp., Phoenix, Arizona, February 2007.

28. Cumhur Ekmekci, Felisa Blackmer, Pinar Tuzmen, Jeff Kiefer, Spyro Mousses, and **Sukru Tuzmen,** "Oncogenomics, AACR proceedings", "Regulation of differential expression patterns of FDFT1 (Farnesyl Diphosphate Farnesyl Transferase 1) gene in various cancer cell lines, and tumors versus normal adjacent tissues: Implication of FDFT1 in Cancer", - pp., Phoenix, Arizona, February 2007.

29. Blackmer, F., Tuzmen, P., Yin, H. H., Que, Q. Q., Kiefer, J., Azorsa, D., Mousses, S., and **Tuzmen, S.,** Cambridge Health Institute Conference "Quantitative PCR, Microarrays, and Biological Validation

2006", "Global RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by qPCR", - pp., Providence, Rode Island, October 2006.

30. Blackmer, F., Tuzmen, P., Yin, H. H., Que, Q. Q., Kiefer, J., Azorsa, D., Mousses, S., and **Tuzmen, S.,** "Translational Genomics Research Institute (TGen) Annual Retreat proceedings", "Global RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by qPCR", - pp., Scottsdale, Arizona, May 2006.

31. Kiefer J, Azorsa D, Evans D, Que Q, McCarty T, Wang H, Han H, **Tuzmen S**, Bittner M, Kallioniemi O, Trent JM, Von Hoff D, and Mousses S, "TGEN 2005 Scientific Retreat, The Arizona Biltmore Resort & Spa", "Global RNAi phenotype analysis for cancer drug target identification", - pp., Phoenix, AZ, February 2005.

32. **Tuzmen, S.,** Azorsa D., Kiefer J., Evans D., Weaver D., Caplen N., Kallioniemi O., Mousses S., "Turkish American Scientists and Scholars Association (TASSA) Annual Conference", "Design and analysis of a library of synthetic siRNAs targeting 139 cancer associated genes", - pp., Washington, DC, February 2005.

33. David O. Azorsa, David M. Evans, Jeff A. Kiefer, Qiang Que, Tom McCarty, Hong Wang, Haiyong Han, **Sukru Tuzmen**, Michael L. Bittner, Olli Kallioniemi, Jeffrey Trent, Daniel Von Hoff, and Spyro Mousses, "Oncogenomics 2005: Dissecting Cancer Through Genome Research", "Global RNAi Phenotype Analysis for Cancer Drug Target Identification", - pp., San Diego, CA, February 2005.

34. David M. Evans, Tom McCarty, **Sukru Tuzmen**, Mike Bittner, Martin White, David O. Azorsa, Spyro Mousses, "95th Annual Meeting of AACR Proceedings", "High Throughput approaches for Cancer drug discovery", - pp., Orlando, Florida, March 2004.

35. David M. Evans, Tom McCarty, Jeff Kiefer, **Sukru Tüzmen**, Olli Kallioniemi, David Azorsa, Don Weaver, Mike Bittner, Martin White, Spyro Mousses, "Drug Discovery Technology (DDT)", "High Throughput Functional Chemogenomics using RNAi for Drug Discovery", - pp., Boston, MA, August 2004.

36. David O. Azorsa, Martin L. White, Piyanan Rojanapraparn, **Sukru Tüzmen**, Jeff A. Kiefer, Michael L. Bittner, Natasha J. Caplen, Olli Kallioniemi, and Spyro Mousses, "95th Annual Meeting of AACR Proceedings", "Functional Chemogenomics Using High-Throughput RNAi Identifies Sensitizing Targets to Improve Doxorubicin Chemotherapy", - pp., Orlando, Florida, March 2004.

37. Jeff A. Kiefer, David O. Azorsa, **Sukru Tüzmen**, Sonoles Shack, Michael L. Bittner, Natasha J. Caplen, Olli Kallioniemi, and Spyro Mousses, “RNAi Based Functional Validation of New Prostate Cancer Drug Targets”, 95th Annual Meeting of AACR Proceedings, Volume 45, Orlando, Florida, 27th – 31st March 2004.

38. **Tüzmen, S.,** Azorsa D., Kiefer J., Evans D., Weaver D., Caplen N., Kallioniemi O., Mousses S., "95th Annual Meeting of AACR Proceedings" "Design and analysis of a library of synthetic siRNAs targeting 139 cancer associated genes", - pp., Orlando, Florida, March 2004.

39. **Tüzmen, S.,** Azorsa D., Weaver D., Caplen N., Kallioniemi O., Mousses S., "1st International qPCR Symposium and Application Workshop" "Validation of siRNA knockdowns by real-time quantitative PCR", - pp., Freising-Weihenstephan, Germany, March 2004.

40. Hernandez, D., Smith, R., **Tüzmen, S.,** "The National Minority Research Symposium" "Identification of A-gamma and G-gamma Globin cDNA Clones from an Erythroleukemia Cell Line using Recombinant DNA Methodologies", - pp., Phoenix, Arizona, November 1999.

41. Hernandez, D., Smith, R., **Tüzmen, S.,** NIH Summer Research Program, the National Institutes of Health konferansı dahilinde "NIH Summer Research Program, the National Institutes of Health" bildiri kitapçığındaki "Identification of A-gamma and G-gamma Globin cDNA Clones from an Erythroleukemia Cell Line using Recombinant DNA Methodologies", - pp., Bethesda, MD, U.S.A, August 1999.

42. Bilenoğlu O, **Tüzmen S,** Özer A, Tadmouri GO, Baig S, Başaran S, and Başak A. N., 8th International Conference: Oral Chelation in the Treatment of Thalassaemia and Other Diseases konferansı dahilinde "8th International Conference: Oral Chelation in the Treatment of Thalassaemia and Other Diseases" bildiri kitapçığındaki "Prenatal Diagnosis of b-Thalassemia and Sickle Cell Anemia in Türkiye", - pp., Corfu, Greece, September 1997.

43. McKenzie, S., **Tüzmen, S.,** NIH Summer Research Program, the National Institutes of Health konferansı dahilinde "NIH Summer Research Program, the National Institutes of Health" bildiri kitapçığındaki "Rapid and Efficient Way of Screening Recombinant Clones using In-Well Screening and PCR", - pp., Bethesda, MD, U.S.A, August 1997.

44. Bilenoglu, O., **Tüzmen, S.,** Oter, S., Oberkanins, C., Kury, F., and Basak, A. N., The European Society of Human Genetics konferansı dahilinde "The European Journal of Human Genetics" bildiri kitapçığındaki "The application of the Beta-Globin Strip Assay to the molecular detection of Beta-Globin mutations in Türkiye", 106 pp., London, England, 1996.

45. Tadmouri, G. O., **Tüzmen, S.,** Ozcelik, H., Ozer, A., Bilenoglu, O., and Basak, A. N., The Human Genome Meeting 96 (HGM'96) konferansı dahilinde "The Human Genome Meeting 96 (HGM'96)" bildiri kitapçığındaki "Beta-Thalassemia in Türkiye: Rare and Novel Mutations and their Possible Effects on the Beta-globin Gene", - pp., Heidelberg, Germany, March 1996.

46. Tadmouri, G. O., **Tüzmen, S.,** Baig, S., Senga, E., Tastan, O., and Basak, A. N., The Inherited Disorders and their Genes in Different European Populations konferansı dahilinde "The Inherited Disorders and their Genes in Different European Populations" bildiri kitapçığındaki "Molecular and Population Genetic Analyses of Thalassemias and Sickle Cell Anemia in Türkiye", - pp., San Feliu de Guixols, Spain, November 1995.

47. Alkan, S., **Tüzmen, S.,** Baig, S. M., Tadmouri, G. O., and Basak, A. N., XIIIth Meeting of the International Society of Haematology (European & African Division) konferansı dahilinde "XIIIth Meeting of the International Society of Haematology (European & African Division)" bildiri kitapçığındaki "The ECL Oligolabeling and Detection System versus the Radioactive Approach in Dot-Blot Hybridization", - pp., Istanbul, Türkiye, September 1995.

48. Tadmouri, G. O., **Tüzmen, S.,** Baig, S. M., Senga, E., Altay, Ç., Akar, N., Nisli, G., Yesilipek, A., and Basak, A. N., XIIIth Meeting of the International Society of Haematology (European & African Division) konferansı dahilinde "XIIIth Meeting of the International Society of Haematology (European & African Division)" bildiri kitapçığındaki "A Molecular Investigation of β-Thalassemia in Türkiye: Is there a Region Dependent Specificity?", - pp., Istanbul, Türkiye, September, 1995.

49. **Tüzmen, S.,** Baig, S. M., Tadmouri, G. O., Akar, N., Başaran, S., Aydınlı, K., and Başak A. N., XIIIth Meeting of the International Society of Haematology (European & African Division konferansı dahilinde

"XIIIth Meeting of the International Society of Haematology (European & African Division" bildiri kitapçığındaki "Prenatal Diagnosis of β-Thalassemia in Türkiye: Present Status and Perspectives", - pp., Istanbul, Türkiye, September 1995.

50. Alkan, S., **Tüzmen, S.,** Baig, S. M., Tadmouri, G. O., and Basak, A. N., Medizinische Genetik konferansı dahilinde "Medizinische Genetik" bildiri kitapçığındaki "The ECL Oligolabeling and Detection System versus the Radioactive Approach in Dot-Blot Hybridization", 134 pp., Germany, 1995.

51. Tadmouri, G. O., **Tüzmen, S.,** Baig, S. M., Senga, E., Altay, Ç., Akar, N., Nisli, G., Yesilipek, A., and Basak, A. N., Medizinische Genetik konferansı dahilinde "Medizinische Genetik" bildiri kitapçığındaki "A Molecular Investigation of β-Thalassemia in Türkiye: Is there a Region-Dependent Specificity?", 263 pp., Germany, 1995.

52. **Tüzmen, S.,** Baig, S. M., Tadmouri, G. O., Akar, N., Basaran, S., Aydinli, K., and Basak, A. N., Vol. 2, p. only, ., Medizinische Genetik konferansı dahilinde "Medizinische Genetik" bildiri kitapçığındaki "Prenatal Diagnosis of β-Thalassemia in Türkiye: Present Status and Perspectives", 167 pp., Germany, 1995.

53. **Tüzmen S.,** Tadmouri G., Senga E., Baig S. M., Akar N., Altay C., Nisli G., Yeşilipek A., Başaran S., Aydınlı K., Başak A. N., Miami Bio/technology European Symposium, Advances in Gene Technology: Molecular Biology and Human Genetic Diseases konferansı dahilinde "Miami Bio/technology European Symposium, Advances in Gene Technology: Molecular Biology and Human Genetic Diseases" bildiri kitapçığındaki "Molecular pathology and prenatal diagnosis of beta-thalassemia in Türkiye", - pp., Monaco, November, 1994.

54. **Tüzmen, S.,** Tadmouri, G., Akar, N., Basaran, S., Aydinli, K., and Basak, A. N., New Trends in Therapy for Hemoglobinopathies and Thalassemias konferansı dahilinde "New Trends in Therapy for Hemoglobinopathies and Thalassemias" bildiri kitapçığındaki "Molecular Pathology and Prenatal Diagnosis of Beta-Thalassemia in Türkiye", - pp., Paris, France, October 1994.

55. **Tüzmen, S.,** Tadmouri, G., Heister, J. G., Akar, N., Basaran, S., Aydinli, K., and Basak, A. N., 26th Annual Meeting of European Society of Human Genetics konferansı dahilinde "26th Annual Meeting of European Society of Human Genetics" bildiri kitapçığındaki "A Rapid and Reliable Diagnostic Approach to Beta-Thalassemia in Türkiye by DGGE and Direct Sequencing", - pp., Paris, France, June, 1994.

56. **Tüzmen S.,** Tadmouri G., Akar N., Başaran S., Aydınlı K., Başak A. N., 7th International Conference on early Prenatal Diagnosis konferansı dahilinde "7th International Conference on early Prenatal Diagnosis" bildiri kitapçığındaki "Molecular basis and prenatal diagnosis of b-thalassemia in Türkiye", - pp., Jerusalem, Israel, May 1994.

57. **Tüzmen, S.,** Tadmouri, G., Senga, E., Baig, S. M., Akar, N., Altay, Ç., Nisli, G., Yesilipek, A., Basaran, S., Aydinli, K., and Basak, A. N., Advances in Gene Technology: Molecular Biology of Human Genetic Disease konferansı dahilinde "Advances in Gene Technology: Molecular Biology of Human Genetic Disease" bildiri kitapçığındaki "Molecular Pathology and Prenatal Diagnosis of Beta-Thalassemia in Türkiye", 64 pp., UK, 1994.

58. **Tüzmen, S.,** Tadmouri, G., Akar, N., Basaran, S., Aydinli, K., and Basak, A. N., 7th International Conference on Early Prenatal Diagnosis konferansı dahilinde "7th International Conference on Early

Prenatal Diagnosis" bildiri kitapçığındaki "Molecular Basis and Prenatal Diagnosis of Beta Thalassemia in Türkiye", 251-254 pp., Italy, 1994.

59. Başak A. N., **Tüzmen S.,** Özer A., Özçelik H., Akar N., Yeşilipek A., Başaran S., Yüksel A., Kırdar B. , Inherited Disorders and Their Genes in Different European Populations konferansı dahilinde "Inherited Disorders and Their Genes in Different European Populations" bildiri kitapçığındaki "The molecular basis of b-thalassemia in Türkiye and prenatal diagnosis by DNA analysis", - pp., Strasbourg, France, November 1993.

60. Başak A. N., **Tüzmen S.,** Özer A., Özçelik H., Akar N., Yeşilipek A., Başaran S., Yüksel A., Kırdar B., XIIth Meeting of the International Society of Hematology konferansı dahilinde "XIIth Meeting of the International Society of Hematology" bildiri kitapçığındaki "The molecular basis of b-thalassemia in Türkiye and prenatal diagnosis by DNA analysis", - pp., Vienna/Austria, 28 August-3 September 1993.

61. Basak, A. N., **Tüzmen S.,** Özer A., Özçelik H., Akar N., Yeşilipek A., Başaran S., Yüksel A., Kırdar B., 17th International Congress of Genetics konferansı dahilinde "17th International Congress of Genetics" bildiri kitapçığındaki "The molecular pathology of b-thalassemia in Türkiye", - pp., Birmingham/England, August 1993.

62. Basak, A. N., **Tüzmen, S**., Özer, A., Özçelik, H., Akar, N., Yesilipek, A., Basaran, S., Yüksel, A., and Kirdar, B. , 25th Annual Meeting of the European Society of Human Genetics konferansı dahilinde "25th Annual Meeting of the European Society of Human Genetics" bildiri kitapçığındaki "The Molecular Basis of Beta-Thalassemia in Türkiye, Prenatal Diagnosis by DNA Analysis", - pp., Barcelona, Spain, May 1993.

63. Başak A. N., **Tüzmen S.,** Özer A., Özçelik H., Başaran S., Aydınlı K., Akar N., Gürgey A., Ulukutlu L., Kırdar B., 5th International Conference on Thalassemias and the Hemoglobinopathies konferansı dahilinde "5th International Conference on Thalassemias and the Hemoglobinopathies" bildiri kitapçığındaki "The molecular heterogeneity of b-thalassemia in Türkiye and prenatal diagnosis by DNA analysis", - pp., Nicosia, Cyprus, 29 March – 3 April 1993.

64. Basak, A. N., Özer, A., **Tüzmen, S**., Özçelik, H., Akar, N., Gürgey, A., Ulukutlu, L., and Kirdar, B., 3rd International Symposium on Iron Transport, Storage andMetabolism konferansı dahilinde "3rd International Symposium on Iron Transport, Storage and Metabolism" bildiri kitapçığındaki "The Molecular Basis of Beta-Thalassemia in Türkiye", - pp., Strasburg, France, 30 August-2 September 1992.

65. Basak, A. N., Özer, A., **Tüzmen, S.,** Özçelik, H., Akar, N., Gürgey, A., Ulukutlu, L., and Kirdar, B., 24th Congress of the International Society of Hematology konferansı dahilinde "24th Congress of the International Society of Hematology" bildiri kitapçığındaki "The Molecular Heterogeneity of Beta-Thalassemia in Türkiye", - pp., London, England, August 1992.

66. Basak, A. N., Özer, A., **Tüzmen, S**., Özçelik, H., Akar, N., Gürgey, A., Ulukutlu, L., and Kirdar, B., 24th Annual Meeting of the European Society of Human Genetics konferansı dahilinde "24th Annual Meeting of the European Society of Human Genetics" bildiri kitapçığındaki "The Molecular Heterogeneity of Beta-Thalassemia in Türkiye", - pp., Elsinore, Denmark, May 1992.

67. Basak, A. N., Özer, A., Özçelik, H., **Tüzmen, S.**, Basaran, S., Aydinli, K., Yüksel, A., Yüksel-Apak, M., Akar, N., Beksaç, S., Gürgey, A., and Kirdar, B., 6th International Conference on Early Prenatal Diagnosis of Genetic Diseases konferansı dahilinde "6th International Conference on Early Prenatal

Diagnosis of Genetic Diseases" bildiri kitapçığındaki "Prevention of Beta-Thalassemia in Türkiye: Early Prenatal Diagnosis by DNA Analysis", - pp., Milan, Italy, May, 1992.

68. Basak, A. N., Özer, A., Özçelik, H., **Tüzmen, S**., Ulukutlu, L., Gürgey, A., Akar, N., and Kirdar, B., 4th International Conference on Thalassemia and the Hemoglobinopathies konferansı dahilinde "4th International Conference on Thalassemia and the Hemoglobinopathies" bildiri kitapçığındaki "The Molecular Basis of Beta-Thalassemia in Türkiye", - pp., Nice, France, November, 1991.

69. Basak, A.N., Özer, A., Özçelik, H., **Tüzmen, S.,** Ulukutlu, L., Gürgey, A., Akar, N., and Kirdar, B., Molekulare Mechanismen der Nukleinsaeure/Protein-Wechselwirkungen-Symposium konferansı dahilinde "Molekulare Mechanismen der Nukleinsaeure/Protein-Wechselwirkungen-Symposium" bildiri kitapçığındaki "The Molecular Basis of Beta-Thalassemia in Türkiye", - pp., Gottingen, Germany, November, 1991.

INVITED PODCAST INTERVIEWS

CANCER DRUG TARGET IDENTIFICATION AND VALIDATION - GEN's Editor-in-Chief John Sterling interviews Sukru Tuzmen, Ph.D., Investigator, Head of Molecular Genetics Laboratory, Pharmaceutical Genomics Division, Translational Genomics Research Institute (TGEN) (6/21/2007) sponsored by: BIO-RAD The Genetic Engineering and Biotechnology News website, http://www.genengnews.com/.

NATIONAL CONFERENCE ABSTRACTS AND PROCEEDINGS

1. N. Aşan Baydemir, **Ş. Tüzmen,** "Kıbrıs Yarasa Tür Çeşitliliğinde Lefke İlçesinin Önemi" 2. Lefke Kent Sempozyumu, Lefke, Kuzey Kıbrıs, 18-20 December 2019 (Oral Presentation).

2. N. Aşan Baydemir, **Ş. Tüzmen, "**Lefke İlçesinin Mağaraları ve Mısır Meyve Yarasası", 1. Lefke Kent Sempozyumu, Lefke, Kuzey Kıbrıs, 12-14 December 2018 (Oral Presentation).

3. N. Aşan Baydemir, **Ş. Tüzmen, "**Türkiye ve KKTC'de Bazı Mağralarda Yaşayan Yarasa ve Omurgasız Faunası", Ekoloji 2016, Adnan Aldemir Sempozyumu, Kafkas University, Kars, Türkiye,16-19 May 2016.

4. Bilenoglu, O., **Tüzmen, S.,** Oter, S., Oberkanins, C., Kury, F., and Basak A. N., XXIV. Ulusal Hematoloji Kongresi konferansı dahilinde "XXIV. Ulusal Hematoloji Kongresi" bildiri kitapçığındaki "Beta-Globin Strip Assay to the molecular detection of beta-globin mutations in Türkiye", - pp., Istanbul, Türkiye, April 1996.

5. Basak A. N., **Tüzmen S.,** Özer A., Özçelik H., Akar N., Yesilipek A., Basaran S., Yüksel A., Kirdar B., XIII. Ulusal Hematoloji Kongresi konferansı dahilinde "XIII. Ulusal Hematoloji Kongresi" bildiri kitapçığındaki " Türkiye'de b-talaseminin moleküler temeli ve DNA analizi ile dogum öncesi erken tanisi", - pp., Istanbul, Türkiye, October 1993.

6. Basak A. N., **Tüzmen S**., Özer A., Özçelik H., Akar N., Yesilipek A., Basaran S., Yüksel A., Kirdar B., XIII. Ulusal Hematoloji Kongresi konferansı dahilinde "XIII. Ulusal Hematoloji Kongresi" bildiri

kitapçığındaki "Beta-talaseminin moleküler tanisinda kullanilan DNA yöntemleri", - pp., Istanbul, Türkiye, October 1993.

7. Basak, A. N., Özer, A., **Tüzmen, S.,** Özçelik, H., Akar, N., Gürgey, A., Ulukutlu, L., and Kirdar, B., 3rd Marmara Medical Days konferansı dahilinde "3rd Marmara Medical Days" bildiri kitapçığındaki "The Molecular Heterogeneity of Beta-Thalassemia in Türkiye", - pp., Istanbul, Türkiye, September 1992.

8. Basak A. N., Özer A., **Tüzmen S.,** Özçelik H., Akar N., Gürgey A., Başaran S., Aydınlı K., Kırdar B., XI. Ulusal Biyokimya Kongresi konferansı dahilinde "XI. Ulusal Biyokimya Kongresi" bildiri kitapçığındaki "Türkiye'de b-talasemi'nin moleküler temeli ve DNA analizi ile doğum öncesi erken tanısı", - pp., Antalya, Türkiye, October 1992.

9. Basak A. N., Özer A., **Tüzmen S.,** Özçelik H., Akar N., Gürgey A., Ulukutlu L., Kirdar B., 2. Ulusal Tibbi Biyoloji Kongresi konferansı dahilinde "2. Ulusal Tibbi Biyoloji Kongresi" bildiri kitapçığındaki "Türkiye'de b-talasemi'nin moleküler heterojenitesi ve DNA analizi ile dogum öncesi tanisi", - pp., Ankara, Türkiye, September 1992.

10. Basak A. N., Özer A., Özçelik H., **Tüzmen S.,** Basaran S., Aydinli K., Yüksel-Apak M., Akar N., Ulukutlu L., Sen C., Altay Ç., Beksaç S., Kirdar B., 2. Ulusal Çocuk Sagligi Kongresi" konferansı dahilinde "2. Ulusal Çocuk Sagligi Kongresi" bildiri kitapçığındaki "Beta-talasemi riski tasiyan olgularda DNA analizi ile dogum öncesi tani", - pp., Ankara, Türkiye, April 1992.

11. Basak A. N., Özer A., **Tüzmen S.,** Özçelik H., Ulukutlu L., Gürgey A., Akar N., Kirdar B., 2. Ulusal Çocuk Sagligi Kongresi konferansı dahilinde "2. Ulusal Çocuk Sagligi Kongresi" bildiri kitapçığındaki "Türkiye'de β-talasemi'nin moleküler heterojenitesi", - pp., Ankara, Türkiye, April 1992.

12. Başak A. N., Özer A., Özçelik H., **Tüzmen S.,** Ulukutlu L., Şen C., Altay C., Beksaç S., Yüksel M., Başaran S., Aydınlı K., Kırdar B., 3. Ulusal Perinatoloji Kongresi konferansı dahilinde "3. Ulusal Perinatoloji Kongresi" bildiri kitapçığındaki "Beta-talasemi ve orak hücreli anemide DNA analizi ile doğum öncesi tanı", - pp., Bursa, Türkiye, March 1992.

13. Basak A. N., Özer A., A., Özçelik H., **Tüzmen S.,** Ulukutlu L., Gürgey A., Akar N., Kirdar B., 22. Ulusal Hematoloji Kongresi konferansı dahilinde "22. Ulusal Hematoloji Kongresi" bildiri kitapçığındaki " Türkiye'de b-talasemi'nin moleküler temeli", - pp., Istanbul, Türkiye, October 1991.

INTERNATIONAL AND NATIONAL SCIENTIFIC LECTURES AND TALKS BY INVITATION

1. "Hemoglobin Switching and Molecular Diagnostics in Beta-Thalassemia" **Ş. Tüzmen,** Süleyman Demirel Üniversitesi, 4th International / 7th National Health Services Congress – INHSC2025, Faculty of Medicine, 20-23 November 2025, Isparta, Türkiye**,** (Keynote Speaker).

2. "Kanser Tedavisinde Yeni BiyobelirteçlerinTanımlanması: Ağız Kanserleri" **Ş. Tüzmen,** DEÜ & DAÜ 1. Diş Hekimliği Öğrenci Kongresi, İzmir 9 Eylül Ünivesitesi, Diş Hekimliği Fakültesi, 28-29 April 2025 İzmir, Türkiye**,** (Keynote Speaker).

3. "Molecular Profiling of Potential Drug Targets for Disease Treatment", **Ş. Tüzmen,** The 4th International West Asia and North Africa (WANA) Congress, 03-04 May 2025, Kish Island, Iran, (Keynote Speaker).

4. "NeoBio in Regenerative Medicine: From Cells to Embryo" **Ş. Tüzmen,** Royan-EMU Joint Online Symposium, 9 October 2025, (Keynote Speaker).

5. "Molecular Characterization of Potential Drug Targets in Disease Treatment" 3. International/6. National Health Service Congress, 20 December 2024, Süleyman Demirel University (SDU), Faculty of Medicine, Isparta, Türkiye, (Keynote Speaker).

6. "Molecular Characterization of a Potential Drug Target in Disease Treatment", 6th International EMU Genetics Club Student Science Symposium, Eastern Mediterranean University, Famagusta, North Cyprus, 24th May 2024, (Face to face).

7. "Nadir genetik hastalıkların teşhis ve tedaviside moleküler yöntemler: Beta-talasemi" "Çapa Çocuk" 5. Nadir Hastalıklar Günü Eğitim Toplantısı, Istanbul, Türkiye, 28 February 2023. (Hybrid).

8. "Identification of Novel Biosignatures as Drug Targets in Cancer Treatment", 1st International Basic Oncology Congress, Istanbul, Türkiye, 4th June 2022, (Online).

9. "Pediatric Cancers and Genetic Disorders in North Cyprus", Mağusa Kale Lions Club, Famagusta, North Cyprus, 4th March 2022, (Face to face).

10. "Identification of Novel Signatures as Potential Drug Targets in Cancer Treatment", Acıbadem University, Istanbul, Türkiye, 15 November 2019.

11. "Molecular Diagnostics in Rare Diseases: "Beta-Thalassemia", ***The 1st Lecture***, Eastern Mediterranean University (EMU), Faculty of Medicine, Famagusta, North Cyprus, 30 September 2019.

12. "Identification of Novel Signatures as Drug Targets in Cancer Treatment", 4th International EMU Genetics Club Student Science Symposium", Acapulco Resort & Spa & Convention Kyrenia, North Cyprus, 3-5 May 2019.

13. "K.K.T.C.'de Genetik Hastalıklar ve İlaç-Gıda-Çevre Etkileşimleri" Avrupa Topluluğu Ofisi, Avrupa Araştırma Gecesi, Bandabulia Sahne, Nicosia, North Cyprus, 28 September 2018.

14. "Beta-Talaseminin Genetik Tanısı, Tanı Yöntemleri ve Potansiyel Terapütik Modelleri", 2. Uluslararası Thalassemia Dernekleri Semineri, Kyrenia, North Cyprus, 11-14 January 2018.

15. "Molecular Diagnostics in Rare Diseases: "Beta-Thalassemia" International Thalassemia Day 2017, NEU, Nicosia, North Cyprus, 09 April 2017.

16. "Identification of Putative Genes As Drug Discovery Tools In Cancer Treatment" 3rd International EMU Genetics Club Student Symposium, Famagusta, North Cyprus, 25 April 2017.

17. "RNAi-Bazlı Genetik Hastalıkları Tedavi Edici Stratejiler" 6.Ulusal Biyoloji Toplulukları Kongresi, Bursa, Türkiye, 27 April-02 May 2017.

18. "RNAi" A Potential Futuristic Tool for Mental Health. 2nd EMUPSS Annual Congres, Famagusta, North Cyprus, 11-16 May 2017.

19. "Potential Therapeutic Modalities in Beta-Thalassemia" 7th PanCyprian Thalassaemia Conference, CING, Nicosia, South Cyprus, 26 November 2016.

20. "Genetik Hastalıkların Teşhis ve Tedavisinde Moleküler Yöntemler ve Mühendislik Uygulamaları", Isparta, Türkiye, 16-19 February 2016.

21. "Lectures in Molecular Biology and Genetics", National Institute of Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan.4-18 September 2015.

22. "Journey in Science", **TEDxEMUniversity**, Famagusta, North Cyprus, 13th May 2015.

23. "RNAi-based personalized therapeutic strategies: Are we there yet?" The International Symposium on Advances in Predictive & Personalized Medicine, Istanbul, Türkiye, 2nd-3rd April 2015.

24. "High-throughput RNAi based therapeutic strategies: Are we there yet?" International Cardiometabolic Syndrome Congress and EMU Health Sciences Student Symposium, Famagusta, North Cyprus, 6th November, 2014.

25. "Application of High-Throughput RNAi in Cancer Genetics" **(Keynote Speaker)** 3rd International Workshop on Translational Bioinformatics and Medical Informatics, Izmir, Türkiye, 22nd May 2014.

26. "Application of RNAi and qPCR in Cancer Genetics" 2nd International GEN-AREL Molecular Biology and Genetics Student Congress, Istanbul, Türkiye, 2nd May 2014.

27. "RNAi Based Functional Pharmacogenomics" 7th International Symposium on Health Informatics and Bioinformatics (HIBIT 2012), Cappadocia, Türkiye, 19th April 2012.

28. "RNAi Based Functional Pharmacogenomics and Applications of QPCR" Drexel University, School of Biomedical Engineering, Science and Health Systems, Philadelphia, PA, U.S.A., 23rd August 2011.

29. "RNAi Based Functional Pharmacogenomics and Applications of QPCR" The 15th Human Genome Meeting and the 4th Pan Arab Human Genetics Conference, Dubai, UAE, 13th March, 2011.

30. "Journey in Science: A Pharmacogenomics Approach" National Institutes of Health (NIH), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Division of Diabetes, Endocrinology, and Metabolic Diseases (DDEMD), Bethesda, MD, 27th September, 2010.

31. "RNAi Based Pharmacogenomics" National Institutes of Health (NIH), National Human Genome Research Institute (NHGRI), Division of Extramural Research (DER), Rockville, MD, 29th September, 2010.

32. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Suleyman Demirel University, Isparta, Türkiye, 21st October, 2008.
"High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", The Cyprus Institute of Neurology & Genetics, Nicosia, Cyprus, 16th July, 2008.

33. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Department of Molecular Biology and Genetics, Bogazici University, Istanbul, Türkiye, 7th July, 2008.

34. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", University of Istanbul, Oncology Institute, Istanbul, Türkiye, 4th July, 2008.

35. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Biological Sciences and Bioengineering Program, Faculty of Engineering and Natural Sciences, Sabanci University, Istanbul, Türkiye, 2nd July, 2008.

36. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by qPCR", Center for Innovations in Medicine, Biodesign Institute, Arizona State University, 10th June, 2008.

37. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Sensor, Signal & Information Processing (SenSIP) Center, Biomedical Signal and Information Processing, BioSIP Seminar, Fulton School of Engineering, ASU, 22nd February, 2008.

33. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Invitee of the President of The T.R.N.C. for the development of a National Molecular Biology and Genetics Institution in The T.R.N.C., Girne, Cyprus, 21st August, 2007.

34. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", QPCR 2007: 3rd International qPCR Symposium & Industrial Exhibition & Application Workshop, Technische Universitat Munchen, Freising-Weihenstephan, Germany, 26th – 30th March 2007.

35. "Global RNAi phenotype analysis for cancer drug target identification and validation by qPCR", HistoGenetics Laboratory, Ossining, NY, 26th October, 2006.

36. "Global RNAi phenotype analysis for cancer drug target identification and validation by qRT-PCR" Quantitative PCR The Validation Tool of Choice", Chambridge Healthtech Institute (CHI), Wyndham San Diego at Emerald Plaza, San Diego, CA, 19th – 21st March, 2006.

37. Global RNAi phenotype analysis for cancer drug target identification and validation by qRT-PCR" Department of Genetics, Institute for Experimental Medical Research (DETAE), Istanbul University, Istanbul, Türkiye, 14th September 2005.

38. Global RNAi phenotype analysis for cancer drug target identification and validation by qRT-PCR" Department of Molecular Biology and Genetics, Bogazici University, Istanbul, Türkiye,13th September 2005.

39. "Production of knock-out models of possible 5' flanking control regions of the epsilon globin gene". BBI – Biotech Research Laboratories, Inc., Boston Biomedica Company, Gaithersburg, Maryland, 9th June, 2000.

40. "Production of knock-out models of possible 5' flanking control regions of the epsilon globin gene". Department of Biometry and Genetics, Louisiana State University Health Science Center, New Orleans, Louisiana, 3rd December, 1999.

41. "Production of knock-out models of possible 5' flanking control regions of the epsilon globin gene". Department of Molecular Biology and Genetics, Bogazici University, Istanbul, Türkiye, 13th August, 1999.

42. "Prenatal Diagnosis of Beta-Thalassemia in Türkiye: Present Status and Perspectives" XIIIth Meeting of the International Society of Haematology (European & African Division), Istanbul, Türkiye, 3rd – 8th September, 1995.

ADDITIONAL INFORMATION

2021 – 4 Oct. 2022 **Scientist, UNDP** "Identification and distribution of vectors of medical importance on the island of Cyprus (ID-VRisk)". Molecular analysis of molecular identification of mosquito species in the island of Cyprus.

2021 - 2021 **Volunteering Scientist, UNDP** "Identification and distribution of vectors of medical importance on the island of Cyprus (ID-VEC)". Molecular analysis of molecular identification of mosquito species in the island of Cyprus.

2014 - present **Founder and Student Mentor**, Genetics Club, Eastern Mediterranean University (**EMU**) Famagusta, T.R.N.C., Mersin 10-Türkiye

2006 - 2009 **Community services**, Phoenix, AZ, U.S.A.

1996 - 2001 **Volunteer,** Turkish Language Translator, NIH, MD, U.S.A.

Teaching Skills

- I have been appointed as the Vice-Dean (Professor) at the Faculty of Dentistry, Eastern Mediterranean University (EMU), Famagusta, T.R.N.C., Mersin 10-Türkiye. Since 2012, I have prepared numerous syllabi from scratch and taught numerous courses with labs including Biochemistry (2 credits), Genetics and Biotechnology (2 credits), Biological Psychology (3 credits), Human Anatomy and Physiology (3 credits), Molecular Cell Biology I &II (3 credits each), Molecular

Genetics (3 credits), Nutrigenomics (2 credits), Molecular Biotechnology (3 credits), Molecular Evolution (3 credits), and Medical Biology (3 credits) courses.

- I have been appointed as an Adjunct Associate Professor at University of Maryland University College (UMUC) in 2001. Since then, I prepared numerous syllabi, and delivered many lectures on Molecular Biology and Genetics, Cell biology, and Biotechnology related subjects. I received above-average student evaluation scores and out of a possible score of 5, I received a 4.86 for BIOL 355. This is notable in an upper-level intensive laboratory course.

Scientific Workshops/Symposiums

- Led the workshop on "Genetik Hastalıkların Teşhis ve Tedavisinde Moleküler Yöntemler ve Mühendislik Uygulamaları", Isparta, Türkiye, 16-19 February 2016.
- Led the workshop on "Molecular Biology and Genetics", National Institute of Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan.4-18 September 2015.
- Led the workshop on the "Bats of Türkiye and North Cyprus: Distribution and Conservation Status of the Species", Eastern Mediterranean University (EMU), Famagusta, T.R.N.C., Mersin 10-Türkiye, 15 February 2015.
- Led the workshop on the "Applications of Quantitative Real-time PCR (qPCR) in Clinic/Cancer Research, and functional RNAi in Cancer Genetics", Suleyman Demirel University, Isparta, Türkiye, 21– 27 October 2008.

CITATIONS

Sum of the Times Cited as of **26 February 2026** on **WEB OF SCIENCE**,
Searched for: AUTHOR: (**Tuzmen S***) at (https://www.webofscience.com/).
Sum of Times Cited: **771, H-index: 13**

GRANTS AND CONTRACTS

Grants submitted and to be re-submitted

Turkish Scientific Council (TUBITAK 1001) 1,650,000.00 TL
"Identification of cardiometabolic biomarkers in obese young individuals in different exercise models" (to be re-submitted)
Role: Co- Investigator

Turkish Scientific Council (TUBITAK 1001) 760,000.00 TL
"Genomic and Taxonomic Analyses of the Bat Species in the Northern Cyprus: Distribution and Conservation Status of the Species" (to be re-submitted)
Role: Principal Investigator

Turkish Embassy Scientific Aids Committee 2,150,290.00 TL
"Establishment of EMU Translational Genomics Research Center (UYGAR-DAÜ), and Support for the Molecular Biology and Genetics Program laboratories" (Accepted)
Role: Director and Chief Coordinator

Eureka R01 (RFA-GM-09-008) R01GM088592-01 NIH/NIGMS $776,119.00
Data Mining & Validation of Associations between Drugs, Genes, Pathways, Diseases The major goal of this project is to rank, filter and verify the biological significance of the computationally generated Drug, Gene, Pathway, and Disease associations. (to be re-submitted)
Role: Principal Investigator

Grants and Contracts Completed

W81XWH-05-1-0332 2/1/2005 – 3/14/2008
DOD/CDMRP BCRP Idea Award $77,577.00
Accelerated Discovery and Validation of Novel Tumor Suppressor Genes in Breast Cancer The major goals of this project are the discovery and validation of new tumor suppressor genes with mutations in breast cancer cells using NMG microarray and CGH analyses.
Role: Investigator

Contract, Eli Lilly & Co 1/1/2005 – 12/31/2006
Predictive Pharmacogenomics
This study aims to discover genes and gene states that can predict response to cancer therapeutics using a variety of technologies, including sequencing for mutations, microarray for expression and CGH, tissue microarrays for protein profiling, RNAi for phenotype profiling.
Role: Investigator

Contract 1/1/2005 – 12/31/2006
Glaxo Smith Kline PLC
Predictive Pharmacogenomics
This study aims to discover genes and gene states that can predict response to cancer therapeutics of interest using gene expression and aCGH for molecular profiling, and RNAi for phenotype profiling.
Role: Investigator

Grant 7/1/2004 – 12/31/2004
NIEHS (subcontract through Icoria Inc.)
Creation of a Tox Gene siRNA Library
The goal of the project is to design and validate 300 siRNA targeting 75 toxicology related genes.
Role: Investigator

W81XWH-05-1-0033 11/01/2004 – 10/31/2006
DOD/CDMRP $200,700.00
Validation of the role of S100P in growth and survival of hormone refractory prostate cancer
The major goals of this project are (1) to conduct high-throughput RNAi to discover genes, that when

silenced, modulate the expression of S100P in hormone refractory prostate cancer cell lines, (2) to determine the functional role of S100P expression on prostate cancer cell growth, survival and other cancer-related phenotypes in vitro, (3) and to determine the role of S100P expression on the in vivo growth of human prostate cancer cells as xenografts in mice.
Role: Investigator

PROFESSIONAL SOCIETIES

- European Society of Human Genetics (ESHG)
- American Association for Cancer Research (AACR)
- American Association for the Advancement of Science (AAAS)
- Turkish American Scientists and Scholars Association (TASSA)

PROFESSIONAL EXPERT PANELS/COMMITTEES

- **Associate Professorship Jury, 2025**, NEU, Nicosia, T.R.N.C.
- **Assistant Professorship Jury, 2025,** NEU, Nicosia, T.R.N.C.
- **MS/PhD Examiner/Thesis Reviewer since 2012,** NIBGE, Pakistan.
- **Senator (Elected Professor for two-year term) 2021-23,** Eastern Mediterranean University (**EMU**), Famagusta, North Cyprus, Mersin 10 – Türkiye.
- **Senator (Elected Professor for two-year term) 2019-2021,** Eastern Mediterranean University (**EMU**), Famagusta, North Cyprus, Mersin 10 – Türkiye.
- **Director**, **2015-19**, Eastern Mediterranean University (**EMU**), Institutional Ethics Committee, Famagusta, North Cyprus, Mersin 10 – Türkiye.
- **Committee Member, 2017-19**, Turkish National Health Institutes (**TUSEB**), Turkish Biotechnology Institute, Human Genom Committee, Türkiye.
- **Reviewer, 2001-present**, the Research Grant Council, Hong Kong, China.
- **Member, 2001-07**, TGen Institutional Biosafety Committee, AZ, U.S.A.
- **Judge 2005**, the 2007 TGen Scientific Retreat, AZ, U.S.A.
- **Consultant**, the Molecular Biology and Genetics Panel, 2007, Girne, T.R.N.C.
- **Consultant**, the Molecular Biology and Genetics Panel, 2008, Isparta, Türkiye.

PROFESSIONAL AWARDS AND SCHOLARSHIPS

2026: 35th elets World Education Summit 2026, "**Innovation in Education Award**", 4-5 February 2026, Dubai, United Arab Emirates.

2025: 58th Annual Meeting of ESHG, Milan, Italy, 24-27 May 2025, Scholarship from Eastern Mediterranean University.

2024: 57th Annual Meeting of ESHG, Berlin, Germany, 01-04 June 2024, Scholarship from Eastern Mediterranean University.

2024: 2023 Eastern Mediterranean University Research Incentive Award.

2023: 16th TIF International Conference on Thalassemias and Hemoglobinopaties, Kuala Lumpur, Malaysia, 03-05 November 2023, Scholarship from Eastern Mediterranean University.

2023: 2022 Eastern Mediterranean University Research Incentive Award.

2022: 2021 Eastern Mediterranean University Research Incentive Award.

2022: 2021 Eastern Mediterranean University SCI/SCIE Indexed Publication Award.

2021: 2020 Eastern Mediterranean University SCI/SCIE Indexed Publication Award.

2020: 2019 Eastern Mediterranean University SCI/SCIE Indexed Publication Award.

2016: The Scientific and Technical Research Council of Türkiye (TÜBITAK) Fellowship for Visiting Scientists Program, Suleyman Demirel University, Isparta-Türkiye.

2015: The Higher Education Commission (HEC), Foreign Professor Visiting Scholars Program (VSP) for National Institute of Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan, 18th September 2015.

2014: EuropeAid/133886/L/ACT/CY-Scholarships for the Turkish Cypriot community Programme for the Academic Year 2013/14, 14th August, 2013.

2011: Sheikh Hamdan Awards for Medical Sciences and the Centre for Arab Genomic Studies, (Oral Presentation) Dubai, UAE. The 15th Human Genome Meeting and the 4th Pan Arab Human Genetics Conference, Dubai, UAE, 13th March, 2011.

2009: CRC Research Center-Tuition Scholarship Award, AZ, U.S.A.

2008: The Scientific and Technical Research Council of Türkiye (TÜBITAK) Fellowship for Visiting Scientists Program, Suleyman Demirel University, Isparta-Türkiye.

1996: Fogarty Postdoctoral Visiting Fellow/ Research Fellow at the Laboratory of Chemical Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health (NIH), Bethesda, MD, USA.

1995: The Scientific and the Technical Research Council of Türkiye (TÜBITAK) scholarship for 27th Annual Meeting of European Society of Human Genetics (ESHG), Berlin, Germany.

1995: 27th Annual Meeting of ESHG, Berlin, Germany, scholarship from the Bogaziçi University Foundation.

1995: 27th Annual Meeting of ESHG, Berlin, Germany, scholarship from the ESHG Organization.

1994: 26th Annual Meeting of ESHG, Paris, France, scholarship from the Bogaziçi University Foundation.

1994: Miami Bio/Technology European Symposium, "Advances in Gene Technology: Molecular Biology and Human Genetic Diseases", Monaco, scholarship from the Bogaziçi University Foundation.

1993: The Scientific and Technical Research Council of Türkiye (TÜBITAK) scholarship for the 25th Annual Meeting of ESHG, Barcelona, Spain.

1993: 25th Annual Meeting of ESHG, Barcelona, Spain, scholarship from the ESHG Organization.

1993: The Scientific and Technical Research Council of Türkiye (TÜBITAK) fellowship for DGGE course, the Sylvius Laboratory, Department of Human Genetics, Faculty of Medicine, State University of Leiden, Leiden, The Netherlands.

1992: The Scientific and Technical Research Council of Türkiye (TÜBITAK) scholarship for the 24th Annual Meeting of ESHG, Elsinore, Denmark.

1992: 24th Annual Meeting of ESHG, Elsinore, Denmark, scholarship from the ESHG Organization.

1991: 23rd Annual Meeting of ESHG, Leuven, Belgium, scholarship from the ESHG Organization.

*****More than 4717 Undergraduate Students have been taught since the year 2001 with excellent students' evaluations as high as 3.82 out of 4.00 at The Eastern Mediterranean University (EMU), Famagusta, Cyprus and University of Maryland University College (UMUC), MD, U.S.A.**