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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, Turkey.

Major: Molecular Biology and Genetics.

M.S., Department of Biology, Bogaziçi University, Istanbul, Turkey.

Major: Molecular Biology and Genetics.

B.S., Department of Biology, Bogaziçi University, Istanbul, Turkey.

Major: Molecular Biology and Genetics.

EMPLOYMENT HISTORY

April 2019 – present

Vice Dean

Faculty of Dentistry

Eastern Mediterranean University, Famagusta, T.R.N.C.,
Mersin 10-Turkey.

March 2019 - present

Professor

Faculty Member, Molecular Biology and Genetics Program

Department of Biological Sciences

Faculty of Arts and Sciences

Eastern Mediterranean University, Famagusta, T.R.N.C.,
Mersin 10-Turkey.

March 2017- present

Founder, CEO/CSO

GenBiomics Research & Development

Eastern Mediterranean University, TeknoPark, GMTGB Building,
Famagusta, T.R.N.C., Mersin 10-Turkey.

- Nov. 2015 – January 2019 **Director**
EMU, Ethics Committee
Eastern Mediterranean University, Famagusta, T.R.N.C.,
Mersin 10-Turkey.
- 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, T.R.N.C.,
Mersin 10-Turkey.
- 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, T.R.N.C.,
Mersin 10-Turkey.
- 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**
- 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-Turkey.

ACADEMIC APPOINTMENTS

2019 – present

Vice Dean, Faculty of Dentistry

Eastern Mediterranean University (EMU),
Famagusta, T.R.N.C., Mersin 10-Turkey.

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, Turkey

2015-2019

Director, Ethics Committee, Eastern Mediterranean University (EMU)
Famagusta, T.R.N.C., Mersin 10-Turkey

2012-2015

Vice Director, Ethics Committee, Eastern Mediterranean University (EMU)
Famagusta, T.R.N.C., Mersin 10-Turkey

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

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, T.R.N.C., Mersin 10-Turkey, July, 2013.

2. Kılıgöz H., "Molecular Approaches for Downregulating Heme-mediated Immune Response", Bilkent University/Eastern Mediterranean University T.R.N.C., Mersin 10-Turkey, August, 2018.
3. Rajab A. A., "Interactions of Novel Sets of Perylene Dianhydrides and a Diimide with G-Quadruplex Structures in Human DNA" Eastern Mediterranean University (EMU), T.R.N.C., Mersin 10-Turkey, July, 2018.
4. Özbil T., "Interactions of Novel Sets of Naphthalene Diimides with G-Quadruplex Structures in Human DNA" Eastern Mediterranean University (EMU), T.R.N.C., Mersin 10-Turkey, January 2019.

Ph.D. Theses

1. Çetin, İ. N., "Petri Net-Based Quantitative Modeling and Validation of p16-mediated Signaling Pathway" EMU, Famagusta, T.R.N.C., Mersin 10-Turkey, January 2016.
2. Mehraei, M., "Exploiting hybrid functional Petri nets to investigate transcriptional activity of Hemoglobin Switching" EMU, Famagusta, T.R.N.C., Mersin 10-Turkey. July 2016.
3. Ergil C., "Identification of cell type specific DNA methylation patterns in the Turkish Cypriot population: A powerful resource for forensic analysis " İstanbul University-Cerrahpasa (I.U.C.) Institute of Forensic Medicine, Cerrahpasa/İstanbul Turkey. (In Progress 2021).
4. Rashid, R., "Design, Synthesis, Characterization and Biological Activity of Novel Anticancer Molecules" Eastern Mediterranean University (EMU), T.R.N.C., Mersin 10-Turkey. (In Progress 2021).

PROFESSIONAL PUBLICATIONS

1. 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.
2. Mani Mehraei, Benedek Nagy, Nimet İlke Akçay, **Şükrü Tüzmen** "Potential Therapeutic Modalities of Reawakening Fetal Hemoglobin Simulated by Reaction Systems". Acta Polytechnica Hungarica (SCIE), 16 (3): 51-65, 2019.
3. **Şükrü Tüzmen**, Galen Hostetter, Aprill Watanabe, Cumhuriyet 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.
4. N. Aşan Baydemir, **Ş. Tüzmen** "Cave Ecosystems of Turkey and Northern Cyprus: A Hidden World for Bats". J. Int. Environmental Application & Science, Vol. 11(3): 255-262, 2016.

5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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 β II in breast cancer- correlation with breast cancer subtypes", Breast Cancer Research and Treatment (SCI), 124 (2): 327-35, 2010.
10. Z. Lacroix, C.R.L. Legendre, and **S. Tuzmen**, "Reasoning on Scientific Workflows", IEEE Computer Society (SCIE), Vol. 1, 306-313 pp., 2009.
11. 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.
12. 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.
13. 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.
14. 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.
15. **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.

16. Tadmouri GO, **Tüzmen S**, Özçelik H, Ozer A, Baig SM, Senga EB, Başak AN. , "Molecular and population genetic analyses of beta-thalassemia in Turkey." Am J Hematol. (SCI), Vol. 57, 215-220 pp., 1998.
17. 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.
18. **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.
19. 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.
20. **Tüzmen S**, Tadmouri GO, Ozer A, Baig SM, Özçelik H, Başaran S, Başak AN., "Prenatal diagnosis of beta-thalassaemia and sickle cell anaemia in Turkey." Prenat Diagn. (SCI), Vol. 16, 252-258 pp., 1996.
21. Özçelik 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 cross-talk?" 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. 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.

2. Hızel C., **Tuzmen S.**, Amirfallah A., Çalibaşı 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.
3. **Şükrü Tüzmen**, Yasemin Baskın, Ayşe Feyda Nursal, Serpil Eraslan, Yağmur Esemem, Gizem Çalibaş, 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.
4. Son A. Y., **Tüzmen Ş.**, Hızel C., Omics for Personalized Medicine, "Designing and Implementing Pharmacogenomics Study: Appropriateness and Validation of Pharmacogenomics" Chapter 6, Springer, 97-122, 2013.
5. **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.
6. Basak A.N., **Tuzmen S.**, "Genetic Predisposition to α -Thalassemia and Sickle Cell Anemia in Turkey: 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.
7. 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.
8. **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. 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, Turkey (2nd Best Oral Presentation Award).
2. 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, Turkey, October 21-23, 2016 (Oral Presentation).
3. N. Aşan Baydemir, **Ş. Tüzmen**, Cave Ecosystems of Turkey and Northern Cyprus: A Hidden World for Bats, In: Proc. 6th International Conference of Ecosystems, Tirana, Albania, June 3-6, 2016 (Oral Presentation).
4. 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.

5. **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).
6. 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.
7. 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.
8. 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 β II in breast cancer- correlation with breast cancer subtypes", - pp., San Diego, California, April 2008.
9. 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.
10. 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.
11. Sevtap Savas, Hamdi Jarjanazi, Noel Pabalan, Jeff Kiefer, **Sukru Tuzmen**, Spyro Mousses, and Hilmi Ozcelik, Oncogenomics, "Oncogenomics, AACR proceedings", "Variable Response to Gemcitabine Associated with Genetic Variations in Folic Acid Metabolism Genes", - pp., Phoenix, Arizona, February, 2007.
12. 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.
13. 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.
14. 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 proceedings", "Establishing and Developing High Quality Cell-based Pharmacogenomic Assays for High Throughput RNAi Screening", - pp., Phoenix, Arizona, February, 2007.

15. 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.
16. 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, Rhode Island, October, 2006.
17. 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.
18. 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.
19. **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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. **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.

26. **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.
27. 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.
28. 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.
29. 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-Thalassaemia and Sickle Cell Anemia in Turkey", - pp., Corfu, Greece, September, 1997.
30. 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.
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32. 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-Thalassaemia in Turkey: Rare and Novel Mutations and their Possible Effects on the Beta-globin Gene", - pp., Heidelberg, Germany, March, 1996.
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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](http://www.genengnews.com/) 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 Yararası", 1. Lefke Kent Sempozyumu, Lefke, Kuzey Kıbrıs, 12-14 December 2018 (Oral Presentation).
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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 Turkey", - pp., Istanbul, Türkiye, April, 1996.
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13. Basak A. N., Özer A., A., Özçelik H., **Tüzmen S.**, Ulukutlu L., Gürgey A., Akar N., Kırdar B., 22. Ulusal Hematoloji Kongresi konferansı dahilinde "22. Ulusal Hematoloji Kongresi" bildiri kitapçığındaki " Türkiye'de b-talasemi'nin moleküler temeli", - pp., İstanbul, Türkiye, October, 1991.

INTERNATIONAL AND NATIONAL SCIENTIFIC LECTURES AND TALKS BY INVITATION

1. "Identification of Novel Signatures as Potential Drug Targets in Cancer Treatment" Acıbadem University, İstanbul, Turkey, 15 November 2019.
2. "Molecular Diagnostics in Rare Diseases: "Beta-Thalassemia", **The 1st Lecture**, Eastern Mediterranean University (EMU), Faculty of Medicine, Famagusta, North Cyprus, 30 September, 2019.

3. "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.
4. "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.
5. "Beta-Talaseminin Genetik Tanısı, Tanı Yöntemleri ve Potansiyel Terapötik Modelleri", 2. Uluslararası Thalassaemia Dernekleri Semineri, Kyrenia, North Cyprus, 11-14 January 2018.
6. "Molecular Diagnostics in Rare Diseases: "Beta-Thalassaemia" International Thalassaemia Day 2017, NEU, Nicosia, North Cyprus, 09 April 2017.
7. "Identification of Putative Genes As Drug Discovery Tools In Cancer Treatment" 3rd International EMU Genetics Club Student Symposium, Famagusta, North Cyprus, 25 April 2017.
8. "RNAi-Bazlı Genetik Hastalıkları Tedavi Edici Stratejiler" 6.Ulusal Biyoloji Toplulukları Kongresi, Bursa, Turkey, 27 April-02 May 2017.
9. "RNAi" A Potential Futuristic Tool for Mental Health. 2nd EMUPSS Annual Congress, Famagusta, North Cyprus, 11-16 May 2017.
10. "Potential Therapeutic Modalities in Beta-Thalassaemia" 7th PanCyprian Thalassaemia Conference, CING, Nicosia, South Cyprus, 26 November 2016.
11. "Genetik Hastalıkların Teşhis ve Tedavisinde Moleküler Yöntemler ve Mühendislik Uygulamaları", Isparta, Turkey, 16-19 February 2016.
12. "Lectures in Molecular Biology and Genetics", National Institute of Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan.4-18 September 2015.
13. "Journey in Science", **TEDxEMUniversity**, Famagusta, North Cyprus, 13th May, 2015.
14. "RNAi-based personalized therapeutic strategies: Are we there yet?" The International Symposium on Advances in Predictive & Personalized Medicine, Istanbul, Turkey, 2nd-3rd April 2015.

15. "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.
16. "Application of High-Throughput RNAi in Cancer Genetics" (**Key Note Speaker**) 3rd International Workshop on Translational Bioinformatics and Medical Informatics, Izmir, Turkey, 22nd May, 2014.
17. "Application of RNAi and qPCR in Cancer Genetics" 2nd International GEN-AREL Molecular Biology and Genetics Student Congress, Istanbul, Turkey, 2nd May, 2014.
18. "RNAi Based Functional Pharmacogenomics" 7th International Symposium on Health Informatics and Bioinformatics (HIBIT 2012), Cappadocia, Turkey, 19th April, 2012.
19. "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.
20. "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.
21. "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.
22. "RNAi Based Pharmacogenomics" National Institutes of Health (NIH), National Human Genome Research Institute (NHGRI), Division of Extramural Research (DER), Rockville, MD, 29th September, 2010.
23. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Suleyman Demirel University, Isparta, Turkey, 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.
24. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and Validation by QPCR", Department of Molecular Biology and Genetics, Bogazici University, Istanbul, Turkey, 7th July, 2008.
25. "High-throughput RNAi Phenotype Analysis for Cancer Drug Target Identification and

- Validation by QPCR”, University of Istanbul, Oncology Institute, Istanbul, Turkey, 4th July, 2008.
26. “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, Turkey, 2nd July, 2008.
 27. “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.
 28. “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.
 29. “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.
 30. “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 Universität München, Freising-Weihenstephan, Germany, 26th – 30th March 2007.
 31. “Global RNAi phenotype analysis for cancer drug target identification and validation by qPCR”, HistoGenetics Laboratory, Ossining, NY, 26th October, 2006.
 32. “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.
 33. 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, Turkey, 14th September 2005.
 34. Global RNAi phenotype analysis for cancer drug target identification and validation by qRT-PCR” Department of Molecular Biology and Genetics, Bogazici University, Istanbul, Turkey, 13th September 2005.
 35. “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.

36. "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.
37. "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, Turkey, 13th August, 1999.
38. "Prenatal Diagnosis of Beta-Thalassaemia in Turkey: Present Status and Perspectives" XIIIth Meeting of the International Society of Haematology (European & African Division), Istanbul, Turkey, 3rd – 8th September, 1995.

ADDITIONAL INFORMATION

2014 – present	Founder and Student Mentor , Genetics Club, Eastern Mediterranean University (EMU) Famagusta, T.R.N.C., Mersin 10-Turkey
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 a Faculty Member (Associated Professor) at the Eastern Mediterranean University (EMU), Famagusta, T.R.N.C., Mersin 10-Turkey, in 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 also been appointed as the Co-advisors of two Ph.D. students and have been lecturing them on Computational Molecular Biology.
- I have been appointed as an Adjunct Associate Professor at University of Maryland University College (UMUC) since 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, Turkey, 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 Turkey and North Cyprus: Distribution and Conservation Status of the Species”, Eastern Mediterranean University (EMU), Famagusta, T.R.N.C., Mersin 10-Turkey, 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, Turkey, 21– 27 October, 2008.

CITATIONS

Sum of the Times Cited as of 24 May 2021 on **WEB OF SCIENCE**, Searched for: AUTHOR: (**Tuzmen S***) at (<http://apps.webofknowledge.com/>).

Sum of Times Cited: 614, h-index: 12

GRANTS AND CONTRACTS

Grants submitted and to be re-submitted

Turkish Scientific Council (TUBITAK 1001) 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) 360,000.00 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

- 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

- **Senator (Elected Professor) 2019**, Eastern Mediterranean University (**EMU**), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Director, 2015-19**, Eastern Mediterranean University (**EMU**), Institutional Ethics Committee, Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Committee Member, 2017-19**, Turkish National Health Institutes (**TUSEB**), Turkish Biotechnology Institute, Human Genom Committee, Turkey.
- **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, Turkey.

PROFESSIONAL AWARDS AND SCHOLARSHIPS

- 2020:** 2019 Eastern Mediterranean University SCI/SCIE Indexed Publication Award.
- 2016:** The Scientific and Technical Research Council of Turkey (TÜBİTAK) Fellowship for Visiting Scientists Program, Suleyman Demirel University, Isparta-Turkey
- 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 Turkey (TÜBİTAK) Fellowship for Visiting Scientists Program, Suleyman Demirel University, Isparta-Turkey.
- 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 Turkey (TÜBİTAK) 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 Turkey (TÜBİTAK) 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 Turkey (TÜBİTAK) 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 Turkey (TÜBİTAK) 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.

SELECTED CAREER ACHIEVEMENTS, RESEARCH INTERESTS, AND RELEVANT SCIENTIFIC EXPERIENCE

- **Founder and Director**, GenBiomics R&D, at The Tecnopark of Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Helped establish**, the Infrastructure of the General and Molecular Genetics Laboratories at The Eastern Mediterranean University (EMU), Department of Biological Sciences, Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Founder and Mentor**, the Students’s Genetics Club, at The Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Delivered numerous Public Talks**, towards the “Awareness of Drug and Drug, and Drug and Disease Interactions”, North Cyprus, Mersin 10 – Turkey.
- **Applied for grants** at the Turkish Scientific Council (**TUBİTAK**), 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, North Cyprus, Mersin 10 – Turkey.
- **Organizer**, “**1st Seminar Series of Genetics Club, 2015**”, Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Organizer**, “**1st Winter Retreat of Genetics Club, 2016**”, Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Organizer**, “**3rd My Career Activity, IEEE Club/Genetics Club, 2016**”, Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Organizer**, “**3rd Internationa EMU Genetics Club Student Symposium, 2017**”, Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.

- **Participant**, Medical Education Workshop, “Strategies to Incorporate Problem Based Learning (PBL) in Classroom, 2013” Dr. Fazıl Küçük Faculty of Medicine, Eastern Mediterranean University (EMU), Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Participant**, North Cyprus Science, Technology and Innovation Workshop, 2013, Famagusta, North Cyprus, Mersin 10 – Turkey.
- **Leader**, the validation part of a \$5M U.S.D. project for RNAi high-throughput screening at Tgen, AZ, U.S.A.
- Set up nucleic acid-based research/diagnostic molecular biology laboratories at Bogazici University, Turkey, and Tgen, AZ, U.S.A.
- Applied for grants at NIH, and other private sectors including Susan G. Komen Foundation, Mayo Clinic, and Prostate Cancer Foundation etc. as a PI and co-PI with collaborators within Tgen, and at other academic institutions, including ASU, and Mayo Clinic, AZ, U.S.A.
- **Independently managed**, the budget, inventory, grants, and collaborative interactions at Tgen, AZ, U.S.A.
- **Trained, mentored and supervised** research associates, interns and postdoctoral fellows and visiting scientists from national and international laboratories at NIH, and Tgen, AZ, U.S.A.
- **Established** qPCR assays for the key cancer, globin gene regulation, cholesterol biosynthesis, and endometriosis related genes at Tgen.
- **Developed** diagnostic assays including 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 possible 5' flanking control regions of the epsilon (embryonic) globin gene utilizing Cre-Lox cloning system at NIH, MD, U.S.A.
- **Supervised** many undergraduate, graduate, and post-doctoral students at NIH, Tgen, Bogazici University and Eastern Mediterranean University (EMU).
- 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.
- **Served** as a reviewer on peer-review panels.
- Passionate for advancing the molecular genetics of diseases including cancer genetics, hematological disorders, cholesterol biosynthesis related disorders, obesity, diabetes, and endometriosis by utilizing my expertise in Molecular Biology & Genetics, gene signature discovery, and development of novel proteomics/genomics based technologies.
- Have a mission as a scientific researcher 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.
- Interested in scientific research that involves protein, DNA and/or RNA-based novel technologies and population-based screening of rare genetic disorders.

Graduate and Undergraduate Courses I Taught since the year 2012 at The Eastern Mediterranean University (EMU)

(A Total of 3,130 Undergraduate Students have been taught so far since February 2012 at EMU)

Akademik Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Lab	
2020-2021	Fall	BIOL107, Medical Biology and Genetics I (EMU, Faculty of Dentistry)	2	2	25
		BIOL108, Medical Biology and Genetics II (EMU, Faculty of Dentistry)	2	2	13
		MDCN110, Medical Biology (EMU, Faculty of Medicine)	3	0	45
2019-2020	Spring	BIOL107, Medical Biology and Genetics I (EMU, Faculty of Dentistry)	2	2	10
		BIOL108, Medical Biology and Genetics II (EMU, Faculty of Dentistry)	2	2	12
2019-2020	Fall	BIOL107, Medical Biology and Genetics I (EMU, Faculty of Dentistry)	2	2	14
		MDCN110, Medical Biology (EMU, Faculty of Medicine)	3	0	107

2018-2019	Spring	BIOL124, Introduction to Molecular Biology and Genetics (3 Groups) (EMU Faculty of Pharmacy)	2	3	171
		BIOL112, Tıbbi Biyoloji ve Genetik II (2 Grup)	2	0	61
		BIOL212, Molecular Cell Biology II	3	3	42
2018-2019	Fall	BIOL112, Tıbbi Biyoloji ve Genetik II (2 Grup)	2	0	61
		BIOL212, Molecular Cell Biology II	3	3	41
		BIOL434, Advanced Molecular Biotechnology	3	0	42
2017-2018	Spring	BIOL212, Molecular Cell Biology II	3	3	45
		BIOL124, Introduction to Molecular Biology and Genetics (3 Grups) (EMU, Faculty of Pharmacy)	2	3	216
2017-2018	Fall	MDCN110, Medical Biology (EMU Faculty of Medicine)	3	0	107
		BIOL460, Forensic Genetics	3	0	52
		BIOL211, Molecular Cell Biology I	3	3	51

2016-2017	Spring	BIOL212, Molecular Cell Biology II	3	3	50
		BIOL124, Introduction to Molecular Biology and Genetics (3 Groups)	2	3	214
2016-2017	Fall	BIOL211, Molecular Cell Biology I	3	3	62
		MDCN110, Medical Biology (EMU Faculty of Medicine)	3	0	62
2015-2016	Spring	BIOL212, Molecular Cell Biology II	3	3	33
	Spring	BIOL230, Molecular Biotechnology	3	0	25
	Spring	BIOL124, Introduction to Molecular Biology and Genetics	2	3	285
2015-2016	Fall	BIOL211, Molecular Cell Biology I	3	3	51
	Fall	BIOL311, Molecular Genetics	3	3	33
	Fall	BIOL411, Molecular Evolution	3	0	24
	Fall	MDCN110, Medical Biology (EMU Faculty of Medicine)	3	0	60

2014-2015	Spring	BIOL212, Molecular Cell Biology II	3	3	42
	Spring	BIOL124, Introduction to Molecular Biology (4 Groups)	2	3	280
	Spring	BIYO222, Biochemistry (EMU, Faculty of Health Sciences)	2	0	80
2014-2015	Fall	BIOL211, Molecular Cell Biology I	3	3	50
	Fall	BIOL230, Molecular Biotechnology	3	0	28
	Fall	BIOL311, Molecular Genetics	3	3	24
	Fall	MDCN110, Medical Biology (EMU Faculty of Medicine)	3	0	66
2013-2014	Spring	BIYO222, Biochemistry (EMU Faculty of Health Sciences)	2	0	48
	Spring	BIYO205, Human Anatomy and Physiology	3	0	66
	Spring	BIOL112, Medical Biology and Genetics II	2	0	39
	Spring	BIOL212, Molecular Cell Biology II	3	3	27
	Spring	BIOL124, Introduction to Molecular Biology and Genetics	2	3	63

2013-2014	Fall	BIOL211 , Molecular Cell Biology I	3	3	33
	Fall	BIOL311 , Molecular Genetics	3	3	9
	Fall	BIYO403 , Special Topics in Biology	2	0	2
	Fall	MDCN110 , Medical Biology (EMU Faculty of Medicine)	3	0	40
2012-2013	Spring	MDCN110 , Medical Biology (EMU Faculty of Medicine)	3	0	40
	Spring	BIYO222 , Biochemistry (EMU Faculty of Health Sciences)	2	0	21
	Spring	BIOL212 , Molecular Cell Biology II	3	3	10
	Spring	BIOL112 , Medical Biology and Genetics II	2	0	49
	Spring	BIYO301 , Genetics and Biotechnology	2	0	5
2012-2013	Fall	BESD323 , Nutrigenomics	2	0	15
	Fall	BIYO222 , Biochemistry (EMU Faculty of Health Sciences)	2	0	32
	Fall	BIOL111 , Medical Biology and Genetics I	2	0	50

	Fall	BIOL124 , Introduction to Molecular Biology and Genetics	2	3	34
	Fall	BIYO403 , Special Topics in Biology	2	0	9
	Fall	BIOL211 , Molecular Cell Biology I	3	3	11

Instructor Evaluation since the Semester 2011-12/2 at The Eastern Mediterranean University

Instructor Evaluation for 2018-19 / 2

Crs.Code	Course Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL112	Medical Biology and Genetics - II	01	2	29	0,00	0,00	10	3,48
BIOL112	Medical Biology and Genetics - II	02	2	32	0,00	0,00	6	3,75
BIOL124	Introduction to Molecular Biology and Genetics	03	3	58	0,00	0,00	23	3,69
BIOL124	Introduction to Molecular Biology and Genetics	01	3	55	0,00	0,00	28	3,45
BIOL124	Introduction to Molecular Biology and Genetics	02	3	58	0,00	0,00	30	3,76
BIOL212	Molecular Cell Biology - II	01	4	42	0,00	0,00	32	3,69

Instructor Evaluation for 2018-19/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	50	0,00	0,00	35	3,50
BIOL434	Advanced Molecular Biotechnology	01	3	42	0,00	0,00	30	3,34

Instructor Evaluation for 2017-18/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL124	Introduction to Molecular Biology and Genetics	01	3	74	0,00	0,00	29	3,44
BIOL124	Introduction to Molecular Biology and Genetics	02	3	66	0,00	0,00	22	3,45
BIOL124	Introduction to Molecular Biology and Genetics	03	3	76	0,00	0,00	42	3,49
BIOL212	Molecular Cell Biology - II	01	4	45	0,00	0,00	28	3,75

Instructor Evaluation for 2017-18/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	52	0,00	0,00	33	3,59
BIOL460	Forensic Genetics	01	3	53	0,00	0,00	28	3,27

Instructor Evaluation for 2016-17/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL124	Introduction to Molecular Biology and Genetics	01	3	73	0,00	0,00	21	3,21
BIOL124	Introduction to Molecular Biology and Genetics	02	3	78	0,00	0,00	10	3,88
BIOL124	Introduction to Molecular Biology and Genetics	03	3	65	0,00	0,00	30	3,79
BIOL212	Molecular Cell Biology - II	01	4	51	0,00	0,00	31	3,56

Instructor Evaluation for 2016-17/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	32	0,00	0,00	31	3,55
BIOL211	Molecular Cell Biology - I	02	4	30	0,00	0,00	25	3,62

Instructor Evaluation for 2015-16/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL124	Introduction to Molecular Biology and Genetics	01	3	98	0,00	0,00	47	3,50
BIOL124	Introduction to Molecular Biology and Genetics	02	3	104	0,00	0,00	51	3,55
BIOL124	Introduction to Molecular Biology and Genetics	03	3	48	0,00	0,00	30	3,47
BIOL124	Introduction to Molecular Biology and Genetics	04	3	55	0,00	0,00	32	3,36
BIOL212	Molecular Cell Biology - II	01	4	41	0,00	0,00	34	3,57
BIOL230	Molecular Biotechnology	01	3	28	0,00	0,00	22	3,58

Instructor Evaluation for 2015-16/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	51	0,00	0,00	40	3,32
BIOL311	Molecular Genetics	01	4	33	0,00	0,00	24	3,54
BIOL411	Molecular Evolution	01	3	24	0,00	0,00	18	3,30

Instructor Evaluation for 2014-15/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL124	Introduction to Molecular Biology and Genetics	01	3	97	0,00	0,00	56	3,36
BIOL124	Introduction to Molecular Biology and Genetics	02	3	83	0,00	0,00	51	3,34
BIOL124	Introduction to Molecular Biology and Genetics	03	3	53	0,00	0,00	24	3,47
BIOL124	Introduction to Molecular Biology and Genetics	04	3	49	0,00	0,00	26	3,55
BIOL212	Molecular Cell Biology - II	01	4	42	0,00	0,00	36	3,53
BIYO222	Biochemistry	01	2	80	0,00	0,00	51	3,33

Instructor Evaluation for 2014-15/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	28	0,00	0,00	11	3,46
BIOL211	Molecular Cell Biology - I	02	4	22	0,00	0,00	8	3,80
BIOL230	Molecular Biotechnology	01	3	28	0,00	0,00	19	3,65
BIOL311	Molecular Genetics	01	4	24	0,00	0,00	5	3,50

Instructor Evaluation for 2013-14/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL112	Medical Biology and Genetics - II	03	2	33	0,00	0,00	28	3,44
BIOL124	Introduction to Molecular Biology and Genetics	01	3	62	0,00	0,00	48	3,12
BIOL212	Molecular Cell Biology - II	01	4	27	0,00	0,00	23	3,27
BIYO205	Human Anatomy and Physiology	01	3	64	0,00	0,00	48	3,37
BIYO222	Biochemistry	01	2	48	0,00	0,00	42	3,30

Instructor Evaluation for 2013-14/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL211	Molecular Cell Biology - I	01	4	33	1,97	1,97	32	3,19
BIOL311	Molecular Genetics	01	4	9	2,49	2,49	9	2,85
BIYO403	Special Topics in Biology	01	2	2	2,85	2,85	2	3,95

Instructor Evaluation for 2012-13/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIOL112	Medical Biology and Genetics - II	03	2	49	2,20	2,20	34	3,69
BIOL124	Introduction to Molecular Biology and Genetics	02	3	37	2,08	2,08	24	3,24
BIOL212	Molecular Cell Biology - II	01	4	10	2,99	2,99	10	3,24
BIYO222	Biochemistry	01	2	21	1,93	1,93	18	3,86
BIYO301	Genetics and Biotechnology	01	2	5	2,40	2,40	4	3,58

Instructor Evaluation for 2012-13/1

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BESD323	Molecular Nutrition - I	01	2	15	2,78	2,78	15	3,26
BIOL111	Medical Biology and Genetics - I	01	2	50	1,94	1,94	30	3,58
BIOL124	Introduction to Molecular Biology and Genetics	01	3	34	2,35	2,35	24	3,29
BIOL211	Molecular Cell Biology - I	01	4	11	2,78	2,78	10	3,28
BIYO222	Biochemistry	01	2	34	3,14	3,14	33	3,47
BIYO403	Special Topics in Biology	01	2	9	3,14	3,14	9	3,75

Instructor Evaluation for 2011-12/2

Crs.Code	Crs.Name	Gr.	Cr.	#of Std. Enrolled	Avg. of Crs. W/NG	Avg. of Crs. Wout/NG	#of Std. Eval.	Avg. of Eval.
BIYO205	Human Anatomy and Physiology	01	3	60	0,00	0,00	47	3,64
BIYO205	Human Anatomy and Physiology	02	3	57	0,00	0,00	52	3,45
BIYO222	Biochemistry	01	2	28	0,00	0,00	21	3,84
BIYO301	Genetics and Biotechnology	01	2	8	0,00	0,00	6	3,64
PSYC370	Physiological Psychology	01	3	27	0,00	0,00	26	3,38