



**ELİF YAVUZ DOKGÖZ, Ph.D.**

**Assistant Professor  
Research Scientist**

**Area of Specialization:**

<b>Degree</b>	<b>Department / Program</b>	<b>University</b>	<b>Year</b>
License	Biology Education	Marmara University	2010
Master's Degree	Medical Biology	Istanbul University	2013
PhD	Medical Biochemistry	Istanbul Medipol University	2020

**Master's Thesis Title and Thesis Advisor:**

*Investigation of DLEC1 Gene in Head and Neck Cancer Patients. Istanbul University- Cerrahpasa Faculty of Medicine. Institute of Health Sciences. Department of Medical Biology. (2010-2013). Master Thesis. Thesis Advisor: Prof. Dr. Turgut Ulutin*

**Doctoral Thesis Title and Advisor:**

*Investigation of the Effect of Pterostilbene and LDH inhibitor on Tumor Metabolism in Cancer Cell Lines. Istanbul Medipol University. Institute of Health Sciences. Department of Medical Biochemistry. (2014-2020). Doctoral Thesis. Thesis Advisor: Prof. Dr. Türkan Yiğitbaşı*

### Tasks:

Job Title	Place of Duty	Year
Application Specialist	Aka Biotechnology	2013-2016
Teaching Assistant	Istinye University - Faculty of Health Sciences - Department of Nutrition and Dietetics	2016-2017
Teaching Assistant	Istinye University - Faculty of Pharmacy - Department of Basic Sciences - Department of Biochemistry	2017- 2021
Doctor Faculty Member	Istinye University - Faculty of Pharmacy - Department of Basic Sciences - Department of Biochemistry	2021- Currently

### Tasks in Projects:

The Effect of Different Cardiolipins on C. Elegans Aging. Istinye University BAP. (2020-2022) **Researcher. Project Number: 2020/B1**

Investigation of the Effect of Pterostilbene and LDH inhibitor on Tumor Metabolism in Cancer Cell Lines. TÜBİTAK 1002. (2019- 2021). **Executive Director. Project Number: 219S069.**

The Role of Lactate Dehydrogenase-Related Alteration of Tumor Metabolism on Apoptosis and Epithelial Mesenchymal Transformation (EMT) in Experimental Prostate Cancer. TUBITAK 1002. **Researcher. (2019- 2021).**

Investigation of DLEC1 Gene in Head and Neck Cancer Patients. Istanbul University BAP. (2010-2013). **Researcher. Project Number: 21634.**

### Administrative Tasks:

Istinye University Faculty of Pharmacy, Department of Biochemistry - (August 2021 - Continuing)

Coordinator of Istinye University Faculty of Pharmacy Transfer and Adjustment Commission- (2017- Ongoing)

### Memberships to Scientific Organizations:

Molecular Cancer Research Association - MOKAD, Member, (2019-Continuing)

European Association for Cancer Research (EACR), Member, (2019-Present)

Medical Biology Association, Member, (2012- Ongoing)

### Awards

Çaykara Education Foundation Education Scholarship Award (2005-2010) - Undergraduate

Çaykara Education Foundation Education Scholarship Award (2010-2013) - Master's Degree

### Undergraduate and graduate level courses:

Academic Year	Period	Course Name	Hours per week		Number of Students
			Theoretical	Application	
2023-2024	Fall	Biochemistry ( Faculty of Pharmacy)	2	0	100
2023-2024	Fall	Biochemistry (Faculty of Health Sciences)	2	0	274
2022-2023	Fall	Biochemistry ( Faculty of Pharmacy)	2	0	85
		Medical Biochemistry 1 ( Faculty of Dentistry)	2	0	69
2020-2021	Fall	Biology, Molecular Biology and Genetics Laboratory (Faculty of Pharmacy)	0	2	128
	Spring	Biochemistry (Faculty of Pharmacy)	3	0	128
2016-2017	Fall	Nutrition Principles (Faculty of Health Sciences)	3	0	61

## WORKS

### **A. Articles published in international refereed journals:**

**A1.** Senoglu S., Gulec M., **Yavuz Dokgoz E.**, Bal-Ozturk A., Izbudak B., Salih B., Olgun A., Ceyhan T. Synthesis, Characterization, in Vitro Cytotoxicity of Novel Metallo Phthalocyanines with four Methylpropiofenonyl Clusters and Their Effects on Caenorhabditis Elegans Thermotolerance. Chemical Papers, 2022.

**A2.** Seven D., **Yavuz Dokgöz E.**, Kılıç E., Baltacı E. Karaman E., Ulutin T., Buyru N. DLEC1 is not silenced solely by promoter methylation in head and neck squamous cell carcinoma. Gene, 563(1), 83-86, 2015.

### **B. Papers presented at international scientific meetings and published in proceedings:**

**B1.** Cagri Cakici, Benay Daylan, Sule Ayla, Pakize Yigit, **Elif Yavuz Dokgoz**, Turkan Yigitbasi. Can Lactate Dehydrogenase Inhibition be Increased Efficiency of 1,25(OH)2D3 Vitamin in Prostate Cancer Animal Model? Biochemistry and Molecular Biology. Volume36, IssueS1. May 2022.

**B2.** **Yavuz Dokgoz E.**, Cakici C., Daskin E., Cimen S., Basbinar Y., Yigitbasi T. Combined Effects of Pterostilbene and Sodium Oxamate on Breast Cancer Energy Metabolism. 3rd International Cancer and Ion Channels Congress (CANCERION-2021). 16-18.09 2021. Turkish Journal of Biochemistry, Volume 46 Issue s1.

**B3.** Cakici C., Daylan B., Ayla S., Eren Gozel H., Yigit P., **Yavuz Dokgoz E.**, Yigitbasi T. The role of lactate dehydrogenase-related modification of tumor metabolism on apoptosis and epithelial mesenchymal transition (EMT) in experimental prostate cancer. 3rd International Cancer and Ion Channels Congress (CANCERION-2021). 16-18.09 2021. Turkish Journal of Biochemistry, Volume 46 Issue s1.

**B4.** **Yavuz Dokgoz E.**, Cakici C., Daskin E., Cimen S., Basbinar Y., Yigitbasi T. Effect of Pterostilben and Lactate Dehydrogenase-A inhibitor on Tumor Metabolism in Breast Cancer Cells. 8th Multidisciplinary Cancer Research Congress. 15-17.01, 2021. (Poster Number: PB0053)

**B5.** **Yavuz Dokgöz E.**, Tengirşek E., Güleç M, Püren Akgüner Z., Erol T., Emik S., Olgun A., Bal-Öztürk A. "Comparative toxicity assessment of cancer-targeted polymeric nanoparticles: *in vivo c. elegans* and *in vitro* cell culture models". Turkish Journal of Biochemistry, 44(s2), 1-3, 2019. 2<sup>nd</sup> International Cancer & Ion Channels Congress. 22-24.09, 2019. (Paper No: 11392)

**B6.** Buyru N., Baltacı E., **Yavuz Dokgöz E.**, Seven D., Kilic E., Karaman E. Downregulation of the DLEC1 gene is not associated with promoter methylation in head and neck cancer. EACR-23, Scientific Program. European Journal of Cancer 50; S93 (2014)

**B7.** Akıncı Ş., Özyiğit İ. İ., Çubuk S., Öztürk B., Yalçın İ.E., **Yavuz Dokgöz E.** (2007). The Effects of Water Stress on Growth Parameters and Total Phenolics of Cucumis sativus L. Cucumber Seedlings. International. Medicinal and Aromatic Plants Conference on Culinary Herbs, Antalya. (Paper No: 3523624)

**C. Authored national/international books or chapters in books:**

**C.1.** **Yavuz Dokgöz E.**, '*Electron Transfer Chain and Oxidative Phosphorylation*', Basic Biochemistry for Health Sciences, Ankara Nobel Tıp Kitabevleri, Chapter 13, 224-236, 2020.

**C.2.** **Yavuz Dokgöz E.**, Karolin Yanar. '*Carbohydrates*', Basic Biochemistry for Health Sciences, Ankara Nobel Medical Bookstores, Chapter 7, 89-114, 2020.

**C.3.** **Yavuz Dokgöz E.**, '*Research on Energy Metabolism in Non Hodgkin Lymphoma*', HEALTH & SCIENCE-2021, Efe Academy Publishing, 51-67,2021.

**G. Conference and Seminar Participations :**

**G1.** Cell Death Symposium 2019. Marmara University. GEMHAM. October 3-4, 2019.

**G2.** Data Analysis and Visualization with R Certificate Program. ISU. September 3-October 3, 2019.

**G3.** Lab on a Chip Course. Dokuz Eylul University, Izmir. 22.09.2019 -22.09.2019

**G4.** II. International Congress on Cancer and Ion Channels. Izmir. 22-24.09.2019

**G5.** II. Molecular Cancer Summit. Istinye University. 23-24.03.2019

**G6.** Artificial Intelligence in Cancer Bioinformatics Course. Istinye University. 23.02.2019

**G7.** Bioinformatics Forum 2018. Gebze Technical University. 11.05.2018

**G8th** International Congress of Traditional and Complementary Medicine. April 19-22, 2018

**G9.** Istanbul Pharmacy Summit October 14-15, 2017.

**G10.** I.Molecular Cancer Summit. Istinye University. 25-26.03.2017

**G11.** Innovations in Medicine: Stem Cell and Diabetes Meeting. Maltepe University. 18.11.2016

**G12.** Pharmaceutical Synthesis and Pharmaceuticals in the Sector (ISEN) Conference / Turkish Chemical Society Young Chemists Platform. Harbiye / Istanbul. 14.5.2016.

- G13.** Biosafety and Genetically Modified Organisms Seminar. Istanbul, 30.04.2016.
- G14.** Step by Step Patenting Training. ITU ARI Teknokent / Ayazaga / Istanbul, 8.12.2015.
- G15.** Genome Variations: Application & Data Analysis Symposium / Istanbul University, 15-16.09.2014.
- G16.** IFCC-WorldLab 2014'. Hamilton Bonaduz AG Company./ Robotics Platforms (Genomics, Proteomics, Cellomics, Metabolomics, Immuno-Assays, General Liquid Handling). Osmanbey, Istanbul Convention Center, Istanbul. June 22- 26, 2014
- G17.** Nanotechnology and Tissue Engineering: Current Challenges & Future Prospects. MOBIGEN, Ataköy, Istanbul, December 20-21, 2013.
- G18.** Applied Biophysics Webinars -ECIS. Signal Transduction Assays.- Toxicology with ECIS. - Cell Invasion- Real-Time Electroporation -Monitoring. 10.12.2013
- G19.** Tübitak Health Specific Project Support Calls Information/Preparation Workshop. 14.08.2013
- G20.** Recent Themes in Motor Neuron Biology and Neurodegeneration, Suna Kıraç Conferences on Neurodegeneration, Istanbul. 23-26.06, 2011.
- G21.** Ege University, 1st Molecular Biology & Genetics Student Congress. Bornova, Izmir. 27-30.08.2008.
- G22.** Boğaziçi University Molecular Biology & Genetics 3rd Seminars of Weekend. 10-, Bebek, Istanbul, 11.05.2008.
- G23.** Istanbul University, 5th National Molecular & Genetics Winter School.14-Beyazıt, Istanbul, 16.03.2008.
- G24.** Istanbul University, 10th National Medical Biology & Genetics Congress Cerrahpasa Medical of Faculty and The Society of Genetics. Belek, Antalya, 6-9.09.2007.
- G25.** KTU, 2nd Molecular Biotechnology Spring School. Trabzon, 24-27.05.2007.
- G26.** 2006-2007 Seminars of Spring Term. Yıldız Technical University, Department of Bioengineering. Davutpaşa, Istanbul, 16.5.2007.
- G27.** Istanbul University, 4th National Molecular Biology & Genetics Winter School. Istanbul, 1-4.02. 2007.
- G28.** KTU, 1st Molecular Biotechnology Spring School. Trabzon, 1-4.02, 2006.

## **H. Summer Intern**

- 2010      **Marmara University, Intern**  
Faculty of Engineering, Department of Bioengineering  
Industrial Biotechnology and Systems Biology Research Group  
Advisor: Prof. Ebru Toksoy Öner
  - Biopolymer Production: Development of Exopolysaccharide Production Processes Using Halophilic Microorganisms
  - Extremophiles as Sources of Polysaccharides
  - Cultivation of bacteria, monitoring fermentation parameters like growth-associated turbidity, biomass concentration, BOD using OxiTop, TLC, GC-MS, PCR and electrophoresis.
  
- 2009      **Marmara University, Intern**  
Medical Biology and Genetics  
Advisor: Prof. Ayşe Özer
  - Molecular Biology Techniques
  
- 2008      **Bogazici University, Intern**  
Department of Molecular Biology and Genetics  
NDAL (Neurodegeneration Research Laboratory)  
Advisor: Prof. Ayşe Nazlı Başak
  - Molecular Biology Techniques
  - Cell Culture / Cell Passage and Cell Transfection

## **I. Courses:**

1. Transilvania University of Brasov, Classic and Modern Methods for Molecular Diagnostics in Human Pathology. - Lifelong Learning Program 10-EIP-RO Brasov 01, Brasov. Director: Prof. MD. PhD. LAZAR L. ONISAI., Transilvania University of Brasov, Certificate, 15.05.2011 -30.05.2011 (International)

2. Experimental Animal Practice and Ethics Course (80 hours of training) Istanbul University, Cerrahpasa Faculty of Medicine. Certificate, 03.06.2007 -28.06.2007 (National)

## **I. Certificates :**

- Certificate in Data Analysis and Visualization with R
- The International Summer School-Lifelong Learning Program 10-EIP-PRO,
- RT-PCR Training Certificate
- Flow Cytometry Applied Workshop Certificate
- TS EN ISO / IEC 17025: 2005 Documentation Training Certificate for the Competence of Testing and Calibration Laboratories
- Experimental Animals Certificate (80 Hours)

## **J. Methods Used in Scientific Studies:**

- Metabolic Flow System (Agilent Seahorse XF )<sup>96</sup>
- Molecular Biology Techniques
  - PCR (qPCR, qRT-PCR, Multiplex PCR)
  - Gel Electrophoresis (Agarose & Capilar)
  - Strip Assays (Reverse Hybridization Techniques)
  - Cycle Sequencing
  - DNA Sequencing Analysis (SANGER Method) (ABI & BECKMAN COULTER)
  - DNA Mutation & Methylation Analysis
  - Microsatellite Analysis, Chimerism - Fragment (STR) (BECKMAN COULTER)
  - Gene Expression Analysis (Relative-Absolute) (ROCHE LC-480-II)
  - PCR Primer-Probe Design
- Cell Culture Methods
- ELISA
- Immunofluorescence
- Flow Cytometry
- Lifespan and thermotolerance analysis in *C.elegans*

## **K. Areas of interest :**

- Molecular Cancer Biology
- Cancer Biochemistry
- Tumor Energy Metabolism
- Specific Drug Development Aiming at Molecular Targeting in Cancer
- Wound Healing

## **L. Skills:**



- Languages: Turkish (native language), English (bilingual proficiency)
- High level proficiency in Microsoft Office
- Driving License B