

CURRICULUM VITAE

Prof. Dr. Uygar Halis TAZEBAY

PERSONAL DATA

Date & Place of Birth : 3 March 1971, Ankara Turkey
Address : Dept. of Molecular Biology and Genetics
Gebze Technical University
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Foreign Languages : French, English

SCHOLARLY AND PROFESSIONAL DUTIES

Scientific Advisory Board Member, Türkiye Cancer Institute (TCI), Health Institutes of Türkiye (TÜSEB) **2022-2025**

Steering Committee Member, Health Sciences Group, Scientific and Technological Research Council of Türkiye (TUBITAK) **2021-2024**

Committee Member, Bioethics Monitoring Committee, UNESCO-Turkish National Commission **2021-2025 (two terms)**

Panel Member, L'Oréal-UNESCO, Women in Science Grant Program, Scientific Evaluation Committee **2018-Present (three terms)**

Panel Member, Chemistry-Biology Group, National and Multi-national Scientific Research Projects, Scientific and Technological Research Council of Türkiye (TUBITAK) **2011-2020 (three terms)**

Secretary, Bioethics Committee, UNESCO-Turkish National Commission **2004-2015**

External Specialist Turkish National Agency, Center for European Union Education and Youth Programmes, Republic of Turkey State Planning Organization **2006-2009**

Specialist, General Directorate of Agricultural Research (TAGEM), Republic of Turkey Ministry of Agriculture and Rural Affairs **2006-2008**

University Representative, National Board on Genetically Modified Organisms, General Directorate of Agricultural Research (TAGEM), Republic of Turkey Ministry of Agriculture and Rural Affairs **2009-2012**

ADMINISTRATIVE DUTIES

Director, Centre Research Laboratory (GTU-MAR), Gebze Technical University (GTU), Gebze 41400 Turkey (<https://gtumar.gtu.edu.tr>) **2016-2022 (two terms)**

Chairman, Department of Molecular Biology and Genetics, Gebze Technical University (GTU), Gebze 41400 Turkey **2017-2020**

Founding President, Molecular Biology Association of Turkey (MBD), Istanbul 34381 Turkey (<https://www.molbioturk.org>) **2011-2017 (two terms)**

ACADEMIC DEGREES

Prof. Dr.	Gebze Technical University Molecular Biology and Genetics, Gebze, 41400 Kocaeli Turkey	2015
Assoc. Prof. Dr.	Gebze Institute of Technology Molecular Biology and Genetics, Gebze, 41400 Kocaeli Turkey	2013
Asst. Prof.	Mol. Biology and Genetics – Bilkent University Ankara 06450 Turkey	2000
Research Assoc.	Albert Einstein College of Medicine of the Yeshiva University, the Bronx 10061 NY, USA	1998
Ph.D.	Genetics and Physiology of Microorganisms University of Paris XI, France	1998
MSc.	Genetics and Physiology of Microorganisms University of Paris XI, France	1994
BSc.	Biology - Middle East Technical University Ankara, Turkey	1993

EMPLOYMENT HISTORY

7/2015 – Present	Professor (<i>Chairman 2017-2020</i>) Gebze Technical University Dept. of Molecular Biology and Genetics Gebze, 41400 Kocaeli, Turkey
1/2013-7/2015	Associate Professor Gebze Technical University Dept. of Molecular Biology and Genetics Gebze, 41400 Kocaeli, Turkey
9/2000 – 1/2013	Assistant Professor Bilkent University Dept. of Molecular Biology and Genetics Bilkent, 06800 Ankara, Turkey
8/1998 - 9/2000	Research Associate Department of Molecular Pharmacology Albert Einstein College of Medicine New York, 10461 NY, USA

PROFESSIONAL AWARDS

Feyzi Akkaya Science Foundation (FABED Foundation) Outstanding Young Investigator Award – **2007**

Bilkent University Outstanding Teaching Award – **2003**

Turkish Academy of Sciences (TÜBA) Outstanding Young Investigator Award (GEBIP) – **2002**

U.S. Department of Defense, Breast Cancer Research Program, Post-doctoral Traineeship Award – **1999**

Medical Research Foundation – France (Fondation Pour La Recherche Medicale) Ph.D Fellowship Award – **1997**

NATO Science Fellowship Program (NATO-A1 Ph.D. Fellowship) Scientific and Technical Research Council of Turkey (TUBITAK) – **1994**

PEER REVIEWED PUBLICATIONS

- 1) Hacıbeyoğlu K, Tuzlakoglu Öztürk M, Arslan Ö, **Tazebay UH (2024)** Live Cell Protein Imaging of Tandem Complemented-GFP11-Tagged Coiled-Coil Domain-Containing Protein-124 Identifies this Factor in G3BP1-Induced Stress-Granules. Protein J. doi: 10.1007/s10930-024-10216-x. Online ahead of print. PMID: 39009911
- 2) Gullulu O, Ozcelik E, Tuzlakoglu-Ozturk M, Karagoz MS, **Tazebay UH (2024)** A multi-faceted approach to unravel coding and non-coding gene fusions and target chimeric proteins in ataxia. J Biomol Struct Dyn. Feb 27:1-21. doi: 10.1080/07391102.2024.2321510. Online ahead of print. PMID: 38411012
- 3) Cakirca G., Tuzlakoglu-Ozturk M., Akillilar PT., Gullulu O., Cetinkaya A., **Tazebay UH (2023)** Proteomics Analysis Identifies the Ribosome Associated Coiled-Coil Domain-Containing Protein-124 as a Novel Interaction Partner of Nucleophosmin-1. Biology of the Cell. 116(1):e202300049.
- 4) Arslan Ö, Soylu NK, Akillilar PT, **Tazebay UH (2021)** Ccdc-124 is a novel RNA-binding factor upregulated in endometrial ovarian and urinary bladder cancers. Cancer Biomarkers. 31(2) 149-164.
- 5) Alotaibi H, Tuzlakoglu-Ozturk M, **Tazebay UH (2017)** The thyroid Na⁺/I⁻-Symporter: Molecular Characterization and genomic regulation. Mol. Imaging and Radionucl. Ther. 26(s1), 92-101.
- 6) Telkoparan P, Erkek S, Yaman E, Alotaibi H, Bayık D. and **Tazebay UH (2013)** Coiled-coil domain containing protein 124 is a novel centrosome and midbody protein that interacts with the Ras-guanine nucleotide exchange factor 1B and is involved in cytokinesis. PLoS One, Vol. 19 (8), e69289.
- 7) Akturk M, Sargin-Oruc A, Danisman N, Erkek S, Buyukkagnici U, Unlu E, and **Tazebay UH (2013)** Na⁺/I⁻ symporter and type 3 iodothyronine deiodinase gene expression in amniotic membrane and placenta and its relationship to maternal thyroid hormones. Biol. Trace Elem. Res., Vol. 154(3), 338-344.
- 8) Cevik IS, Keskin N, Belkaya S, Ozlu MI, **Tazebay UH**, and Erman B (2012) CD81 interacts with the T-cell receptor to suppress signaling. PLoS One, Vol. 7(11), e-publication: e50396.
- 9) Yavas S, Erdogan M, Gürel K, Ilday FÖ, Eldeniz YB, and **Tazebay UH (2012)** Fiber-laser microscope system for femtosecond photodisruption of biological samples. Biomedical Optics Express, Vol. 3(3), 605-611.
- 10) Erdogan M, Oktem B, Kalaycioglu H, Yavas S, Mukhopadhyay P, Aykac Y, **Tazebay UH**, and Ilday FÖ (2011) Texturing of titanium (Ti6Al4V) medical implant surfaces with MHz-repetition-rate femtosecond and picosecond Yb-doped lasers. Optics Express, Vol. 19(11), 10986-10996.
- 11) Alotaibi H, Yaman E, Salvatore D, Di Dato V, Telkoparan P, Di Lauro R, and **Tazebay UH (2010)** Intronic elements in the Na⁺/I⁻ symporter gene (NIS) interact with retinoic acid receptors and mediate initiation of transcription. Nucleic Acids Research, Vol. 38(10), 3172-3185.
- 12) Mumcuoglu M, Bagislar S, Yuzugullu H, Alotaibi H, Senturk S, Telkoparan P, Gur-Dedeoglu B, Cingoz B, Bozkurt B, **Tazebay UH**, Yulug IG, Akcali KC, and Ozturk M (2010) The ability to generate senescent progeny as a mechanism underlying breast cancer cell heterogeneity. PLoS One, Vol. 5(6), e-publication: e11288.
- 13) Yaman E, Gasper R, Koerner C, Wittinghofer A, and **Tazebay UH (2009)** RasGEF1A and RasGEF1B are guanine nucleotide exchange factors that discriminate between Rap GTP-binding proteins and mediate Rap2-specific nucleotide exchange. FEBS Journal, Vol. 276(16), 4607-4616.

- 14) Tuncel M, Aydın D, Yaman E, **Tazebay UH**, Güç D, Doğan AL, Taşbasan B, and Uğur Ö (2007) The comparative effects of gene modulators on thyroid specific genes and radioiodine uptake. Cancer Biotherapy and Radiopharmaceuticals, Vol. 22(3), 281-288.
- 15) Alotaibi H, Yaman-Çankaya E, Demirpençe E, **Tazebay UH** (2006) Unliganded estrogen receptor-alpha activates transcription of the mammary gland Na⁺/I⁻ symporter gene. Biochemical and Biophysical Research Communications, Vol. 345(4), 1487-1496.
- 16) Tavoularis SN, **Tazebay UH**, Diallinas G, Rosa A, Scazzocchio C, and Sophianopoulou V (2003) Mutational analysis of the major proline transporter of (PrnB) of *Aspergillus nidulans*." Molecular Membrane Biology, Vol. 20(4), 285-297.
- 17) **Tazebay UH**, Wapnir IL, Levy O, Dohan O, Zuckier LS, Zhao QH, Deng HF, Amenta PS, Fineberg S, Pestell RG, and Carrasco N (2000) The mammary gland iodide transporter is expressed during lactation and in breast cancer. Nature Medicine, Vol. 6(8), 871-878.
- 18) **Tazebay UH**, Sophianopoulou V, Scazzocchio C, and Diallinas G (1997) The gene encoding the major proline transporter of *Aspergillus nidulans* is upregulated during conidiospore germination and in response to proline induction and amino acid starvation. Molecular Microbiology, Vol. 24(1), 105-117.
- 19) **Tazebay UH**, Sophianopoulou V, Cubero B, Scazzocchio C, and Diallinas G (1995) Post-transcriptional control and kinetic characterization of proline transport in germinating conidiospores of *Aspergillus nidulans*. FEMS Microbiology Letters, 132(1), 27-37.
- 20) **Tazebay UH**, Sophianopoulou V, Rosa A, Scazzocchio C, and Diallinas G (1994) Structure-function analysis of the proline permease (PrnB) of the filamentous fungus *Aspergillus nidulans*. Folia Microbiologica (Prague), Vol. 39(6), 551.

OTHER SCHOLARLY PUBLICATIONS

Ph.D. Dissertation

Analyse mutationnelle et étude de la regulation du gène *prnB* impliqué dans le transport de la proline chez *Aspergillus nidulans* (Mutational analysis and study on regulation of gene *prnB* involved in proline uptake in *Aspergillus nidulans*). Defended on the 10th of July, 1998.

Thesis supervisor: Prof. Dr. Claudio SCAZZOCCHIO, University of Paris-XI, France.

M.Sc Dissertation (Diplome D'Etudes Approfondie, DEA)

Analyse du structure/fonction du gène *prnB* impliqué dans le transport de la proline chez *Aspergillus nidulans* (Structure/function analysis of gene *prnB* involved in proline uptake in *Aspergillus nidulans*). Defended on the 9th of September, 1994.

Thesis supervisor: Prof. Dr. Claudio SCAZZOCCHIO, University of Paris-XI, France.

Chapters in books or monographs.

- 1) "Iodine in milk: transport, metabolic implications and relation to endocrine function" in Dietary and Nutritional Aspects of Human Milk, (Edited by Victor P. Reedy, Sherma Zibadi, and Ronald R. Watson). Place of publication: Wageningen Academic Publishers, Wageningen, the Netherlands 2013. Pages: 371-386. Authors: Pelin Telkoparan and Uygur Halis Tazebay.
- 2) "Regulation of the Functional Na⁺/I⁻ Symporter (NIS) Expression in Breast

Cancer Cells" in Breast Cancer Cells: Book 5 (Edited by Brunhilde Felding-Habermann). Place of publication: INTECH Publishing, Rijeka, Croatia **2011**. Pages 103-122. Author: Uygur Halis Tazebay.

- 3) "Analysis of Genome Evolution as a Tool to Understand the Living Cell (Canlı Hücreyi Anlamak için Bir Araç: Genomların Evrimsel Analizi)" in Bilimden Felsefeye Akademik Bir Çevrenin Serüveni. (Edited by Serap Şahinoğlu, Kumru Arapgirlioğlu, Hürkan Çelebi, Yaman Örs). Place of publication: Bilim ve Gelecek Kitaplığı, İstanbul **2011**. Pages 361-369. Authors: Uygur Halis Tazebay and Pelin Telkoparan (*in Turkish*).
- 4) "Genetic Regulation in *Aspergillus nidulans* (*Aspergillus nidulans*'ta Genetik Regülasyon)" in Aspergillus. (Edited by Beyza Ener) Place of publication: Türk Mikrobiyoloji Cemiyeti Yayını, İstanbul **2006**. Vol. 56, pages 82-85. Author: Uygur Halis Tazebay (*in Turkish*).
- 5) "Genetic Research and Ethics (Genetik Araştırmalar ve Etik)" in Bilimsel Düşünce ve Araştırmada Etik. (Edited by H. Güven and S. Gidener). Place of publication: Dokuz Eylül University Publishing, İzmir **2003**. Pages 129-140. Author: Uygur Halis Tazebay (*in Turkish*).

PATENTS

"Methods for the Diagnosis and Treatment of Breast Cancer."

United States Patent No. 7,303,740. Patent filing date: Oct. 8, 2004; **Patent date: Dec. 4, 2007**. Inventors: Drs. Nancy CARRASCO (New York, USA), Orsolya DOHAN (New York, USA), **Uygur H. TAZEBAY** (Ankara, Turkey), Irene L. WAPNIR (Stanford, USA).

COURSES TAUGHT IN ENGLISH

Graduate Courses:

MBG 505	Advanced Molecular Genetics	(3 Credits, Must)
Taught 3 Semesters		
MBG 509	Special Topics in Molecular Biology I	(3 Credits, Elect.)
Taught 3 Semesters		
MBG 612	Special Topics in Genetics I	(3 Credits, Elect.)
Taught 3 Semesters		
MBG 739	Special Topics in Cell Biology	(3 Credits, Elect.)
Taught 15 Semesters		

Undergraduate Courses:

MBG 110	Introduction to Modern Biology	(3 Credits, Elect.)
Taught 5 Semesters		
MBG 223	Molecular Genetics	(4 Credits, Must)
Taught 26 Semesters		
MBG 338	Microbiology	(4 Credits, Must)
Taught 7 Semesters		
MBG 416 (or MBG 401)	Science and Ethics	(3 Credits, Must)
Taught 14 Semesters		

EXTRAMURAL NATIONAL RESEARCH SUPPORTS (AS PROJECT DIRECTOR)

2001-2004 Transcriptional Regulation of NIS Gene in Mammary Cancer Cell Line Models by Estrogens; Turkish Scientific and Technological Research Council (TUBITAK) 101-T-075. Project Budget: USD. 20.000 (**Completed**)

2004-2009 Identification of Novel cis- and trans-Acting Regulatory Factors Controlling NIS Gene Expression in Mammary Gland Cells; Turkish Scientific and Technological Research Council (TUBITAK) 104-T-231. Project Budget: USD. 100.000 (**Completed**)

2009-2013 Identification of Cellular Factors Regulating RasGEF1 Family of Guanine Nucleotide Exchange Factors; Turkish Scientific and Technological Research Council (TUBITAK) 109-T-925. Project Budget: USD. 100.000 (**Completed**)

2014-2017 Cellular and Functional Analysis of a Novel Conserved Gene, CCDC124; Turkish Scientific and Technological Research Council (TUBITAK) 114-Z-349. Project Budget: USD. 125.000 (**Completed**)

2014-2018 Ministry of Development of Turkey, Gebze Technical University Central Research Laboratory Construction and Equipment Project 114K-120430. Project Budget: USD. 3.500.000 (**Completed**)

CURRENT RESEARCH INTERESTS

- Molecular mechanisms involved in cytokinetic abscission.
- Cellular liquid-liquid phase-separation.
- Cellular and molecular regulation of RasGEF1 (Ras-Guanine Nucleotide Exchange Factor-1) family of proteins.
- Hormonal and Molecular Regulation of the Na⁺/Iodide Symporter (NIS) in Lactating Mammary Gland and in Breast Cancer.