

Ebru BİLGET GUVEN

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EDUCATION AND TRAINING

a) Academic Degrees

- Ph.D.** Department of Molecular Biology and Genetics, Faculty of Science, Bilkent University (2012)
Dissertation Title:
“Identification of Putative Protein Kinase Inhibitors Acting on Liver Cancer Cells”
under the supervision of Assoc. Prof. Rengul Cetin-Atalay, MD Ph.D.
- M.Sc.** Department of Medicinal Biochemistry, Institution of Health Sciences, Cukurova University (1999)
“The Study of Kinetic and Molecular Properties of the Detected Glucose-6-Phosphate Dehydrogenase Deficient Cases”
under the supervision of Prof. Kiymet Aksoy, Ph.D.
- B.Sc.** Department of Chemistry, Faculty of Arts and Sciences, Bogazici University (1997)
- High-School Diploma** Tarsus American College (1991)

b) Training and Certificates

- “Bioinformatics for Anti-Cancer Drug Discovery Workshop”
organized by Bilkent University and British Council (2011)
- “EBI Bioinformatics Roadshow”
organized by EMBL-EBI and Dokuz Eylul University (2010)
- “Research Animal Usage Certification Training Program” (Certificate No: 49)
organized by Bilkent University under the approval of the Local Ethics Committee (2010)
- “Mechanisms and Models of Cancer”
organized by Cold Spring Harbor Laboratories (2010)
- “Phage Display Technology”
organized by TÜBİTAK MAM Genetic Engineering and Biotechnology Institute (GEBİ) (1998)
- “Biochemical Methods Used in Molecular Genetics – Grad Summer School”
organized by Cukurova University (1998)
- “Symposium on Quality Control in Laboratories”
organized by Cukurova University (1998)
- “First Congress of Balkan Association of Biosciences XVth National Congress of Biochemistry Clinical Laboratory Automation Symposium-II”
organized by Cukurova University (1997)

PUBLICATIONS

a) Scholarly Publications

- 1) Kahraman DC, **Bilget Guven E**, Aytac PS, Aykut G, Tozkoparan B, Cetin Atalay R. A new triazolothiadiazine derivative inhibits stemness and induces cell death in HCC by oxidative stress dependent JNK pathway activation. *Scientific reports*. 2022; 12(1), 15139. PMID: 36071119
- 2) Polat EO, Cetin MM, Tabak AF, **Bilget Güven E**, Uysal BÖ, Arsan T, Kabbani A, Hamed H, Gül SB. Transducer Technologies for Biosensors and Their Wearable Applications. *Biosensors*. 2022; 12(6), 385. PMID: 35735533
- 3) Kucukdumlu A, Tuncbilek M, **Bilget Guven E**, Cetin-Atalay R. Design, synthesis and in vitro cytotoxic activity of new 6,9-disubstituted purine analogues. *Acta Chim Slov*. 2020; 67(1), 70-82. PMID: 33558921
- 4) Tuncbilek M, Kucukdumlu A, **Bilget Guven E**, Altiparmak D, Cetin-Atalay R. Synthesis of novel 6-substituted amino-9-(β -d-ribofuranosyl)purine analogs and their bioactivities on human epithelial cancer cells. *Bioorg Med Chem Lett*. 2018 Jan 2. PubMed PMID: 29326016.
- 5) Kucukdumlu A, Tuncbilek M, **Bilget Guven E**, Cetin-Atalay R. Synthesis of Some Substituted 6-Phenyl Purine Analogues and Their Biological Evaluation as Cytotoxic Agents. *Acta Chim Slov*. 2017 Sep; 64(3):621-632. PubMed PMID: 28862295.
- 6) Durmaz I, **Bilget Guven E**, Ersahin T, Ozturk M, Calis I, Cetin-Atalay R. Liver cancer cells are sensitive to Lanatoside C induced cell death independent of their PTEN status. *Phytomedicine*. 2016 Jan 15; 23(1):42-51. PubMed PMID: 26902406.
- 7) Demir Z¹, **Bilget Guven E**¹, Ozbey S, Kazak C, Atalay RC, Tuncbilek M. Synthesis of novel substituted purine derivatives and identification of the cell death mechanism. *Eur J Med Chem*. 2015 Jan 7; 89:701-20. (¹ *These authors contributed equally to this work.*) PubMed PMID: 25462277.
- 8) Tuncbilek M, **Bilget Guven E**, Onder T, Cetin Atalay R. Synthesis of novel 6-(4-substituted piperazine-1-yl)-9-(β -D-ribofuranosyl) purine derivatives, which lead to senescence-induced cell death in liver cancer cells. *J Med Chem*. 2012 Apr 12;55(7): 3058-65. PubMed PMID: 22409771.
- 9) Gezici O, Durmaz I, **Bilget Guven E**, Unal O, Ozgun A, Cetin-Atalay R, and Tuncel D. Dual functionality of conjugated polymer nanoparticles as an anticancer drug carrier and a fluorescent probe for cell imaging. *RSC Adv.*, 2013.

b) Theses Defended

- 1) **Ph.D. Dissertation:**
"Identification of Putative Protein Kinase Inhibitors Acting on Liver Cancer Cells"

under the supervision of Assoc. Prof. Rengul Cetin-Atalay, MD Ph.D.

2) M.Sc. Thesis :

“The Study of Kinetic and Molecular Properties of the Detected Glucose-6-Phosphate Dehydrogenase Deficient Cases” under the supervision of Prof. Kismet Aksoy, Ph.D.

d) Presentations in International Academic Meetings

- 1) Ebru Bilget Guven**, Peri S. Aytac, Rengul Cetin-Atalay and Birsen Tozkoparan. “Synthesis of some 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazine derivatives as possible protein kinase inhibitors” FEBS journal, September 2012 - Vol. 279, p144.
- 2) Ebru Bilget Guven**, Zeynep Demir, Rengul Cetin-Atalay, Meral Tuncbilek. “Novel substituted purine derivatives induce senescence associated cell death in liver cancer cells in vitro” 2nd RSC symposium on Chemical Biology for Drug Discovery, March 2012.
- 3) Meral Tuncbilek**, Asligul Kucukdumlu, **Ebru Bilget Guven**, Rengul Cetin-Atalay. “Synthesis of novel 6,9-disubstituted purine derivatives as potent cytotoxic agents in human cancer cells” 2nd RSC symposium on Chemical Biology for Drug Discovery, March 2012.
- 4) Asligul Kucukdumlu**, Meral Tuncbilek, **Ebru Bilget Guven**, Rengul Cetin Atalay. “Synthesis and Biological Activity of Some New Substituted Purine Derivatives in Human Cancer Cells” International Symposium on Advances in Synthetic and Medicinal Chemistry, St. Petersburg, Russia, August 2011.
- 5) Ebru Bilget Guven**, Meral Tuncbilek, Tulin Ersahin, Zeynep Demir, Mehmet Ozturk, Rengul Cetin-Atalay. “Cytotoxicity of Novel Substituted Purine Derivatives Against Liver Cancer” AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Conference, November 2009, p135.
- 6) Ebru Bilget Guven**, Birsen Tozkoparan, Peri S. Aytac, Rengul Cetin-Atalay. “Novel small-molecules: bioactive against HCC cells” ILCA Annual Conference, September 2009, p47.
- 7) Ebru Bilget Guven**, Kiyimet Aksoy. “The Genotype - Fenotype Relation of a Detected Glucose-6-Phosphate Dehydrogenase Deficient Case” FEBS journal, June 2006 - Vol. 273, p139

EMPLOYMENT

a) Research Experiences

▪ **Post Doc, Research Fellow**

at Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry

Projects involved

(2013)

Synthesis of the New Nucleoside and Nucleobase Analogues Cytotoxic to Liver Cancer Cells and Determination of their Effects on Protein Kinases.

(Prof. Meral Tuncbilek’s Lab)

The Scientific and Technological Research Council of Turkey (TUBITAK - 112S182)

▪ **Ph.D. Student, Research Assistant**

at Bilkent University, Faculty of Science

Projects involved

(2007-2012)

Cancer Drug Technologies, KANILTEK Project.

(Assoc.Prof. Rengul Cetin-Atalay's Lab, *coordinator: Prof. Mehmet Öztürk*),
State Planning Organization (DPT) of Turkey (\$1 500 000)

The assessment of the in vivo antitumor effects of a novel small molecule, CI-ATTM.

(Rengul Cetin-Atalay's Lab)

The Scientific and Technological Research Council of Turkey (TUBITAK – 112S030)

▪ **MSc. Student, Research Assistant**

at Clinical and Research Labs, Department of Medicinal Biochemistry,
Institution of Health Sciences, Cukurova University

(1996)

b) Teaching Experiences

- at Kadir Has University, Faculty of Engineering and Natural Sciences

Courses Taught

BIO 101 Introduction to Biology

BIO 105 Introduction to Modern Biology

CH 101 General Chemistry

CH 103 Chemistry I

CH 104 Chemistry II

KHAS 101 Origins and Consequences

KHAS 105 Universal Values and Ethics

KHAS 1004 Chemistry on a Plate

KHAS 1422 Biomimicry

BIO 305 Biochemistry I

BIO 306 Biochemistry II

BIO 419 Cell and Tissue Engineering

MBG421 Molecular Basis of Cancer

BIO 531 Essential Cell Biology

BIO 631 Advanced Cell Biology

- at Bilkent University, Faculty of Science

Courses Taught

MBG 105 Principles of Biology

MBG 110 Introduction to Modern Biology

MBG 312 Biochemistry II

Short Modules

“How to Isolate DNA?” Bilkent University, Youth Academy

"Drug Administration Techniques to Lab Animals"
Research Animal Usage Certification Training Program

Courses Assisted

MBG 210 Genetics
MBG 324 Molecular Biology of the Gene
MBG 311 Biochemistry I

d) Administration Experiences

- **Erasmus Academic Coordinator**
at Molecular Biology and Genetics Department, KHAS

- **Course Coordinator**
MBG 110 Introduction to Modern Biology
at Bilkent University, Faculty of Science

KHAS101 Origins and Consequences
at KHAS, Core Program

KHAS1422 Biomimicry
at KHAS, Core Program

AWARDS AND RESEARCH GRANTS

Sanovel Pharmaceuticals Inc., Drug Research Award (1st place)
received for the article published in J Med Chem (PMID: 2240977) (2012)

Full Scholarship for Ph.D. studies
from The Scientific and Technological Research Council of Turkey (TUBITAK)
tenable at Bilkent University (2006-2012)

OTHER

Language:

English (excellent), Turkish (native)
Latin (intermediate)

Professional Memberships:

American Chemical Society – associate member
Boğaziçi University Alumni (BUMED)
