

## Ebru BİLGET GUVEN

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### EDUCATION AND TRAINING

#### a) Academic Degrees

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- 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

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- “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)
- “Professional Sales Methods”  
*organized by Ali Kirman YÖN Educational Consultancy* (2001)
- “Professional Sales Techniques”  
*organized by EF Educational Consultancy* (2001)
- “Medical Sales Representatives – Basics and Sales Techniques”  
*organized by H. Lundbeck A/S Pharmaceutical Company* (2001)

- “Phage Display Technology”  
organized by TUBİTAK MAM Genetic Engineering and Biotechnology Institute (GEBI) (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 XV<sup>th</sup> National Congress  
of Biochemistry Clinical Laboratory Automation Symposium-II”  
organized by Cukurova University (1997)

## PUBLICATIONS

### a) Scholarly Publications

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- 1) 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
- 2) Tuncbilek M, Kucukdumlu A, **Bilget Guven E**, Altiparmak D, Cetin-Atalay R. Synthesis of novel 6-substituted amino-9-( $\beta$ -d-ribofuranosyl)purine analogs and their bioactivities on human epithelial cancer cells. *Bioorg Med Chem Lett.* 2018 Jan 2.  
PubMed PMID: 29326016.
- 3) 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.
- 4) 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.
- 5) Demir Z<sup>1</sup>, **Bilget Guven E**<sup>1</sup>, 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. (<sup>1</sup> These authors contributed equally to this work.)  
PubMed PMID: 25462277.
- 6) Tuncbilek M, **Bilget Guven E**, Onder T, Cetin Atalay R. Synthesis of novel 6-(4-substituted piperazine-1-yl)-9-( $\beta$ -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.
- 7) 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) Unpublished Work

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### 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

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- 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) Industrial Experiences

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Post-Doctoral Research Fellow  
at Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry (2013)

Pharmaceutical Sales Representative  
at H. Lundbeck A/S Pharmaceutical Company (2002)

Summer Trainee  
at Clinical and Research Labs, Department of Medicinal Biochemistry,  
Institution of Health Sciences, Cukurova University (1996)

Summer Trainee  
at DYSTAR (Bayer & Hoechst textile-dye labs) (1995)

## **b) Teaching Experiences**

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

### Courses Taught

BIO 101 Introduction to Biology  
BIO 105 Introduction to Modern Biology  
BIO 305 Biochemistry I  
BIO 306 Biochemistry II  
BIO 419 Cell and Tissue Engineering  
BIO 531 Essential Cell Biology  
BIO 631 Advanced Cell 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 160 Chemistry on a Plate  
KHAS 170 Biomimicry

- **Instructor** 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

- **Teaching Assistant** at Bilkent University, Faculty of Science

### Courses Assisted

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

## b) Research Experiences

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### ▪ 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)

### ▪ 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)

## AWARDS AND RESEARCH GRANTS

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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

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### **Language:**

English (excellent), Turkish (native)

### **Professional Memberships:**

American Chemical Society – associate member

Boğaziçi University Alumni (BUMED)

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