



**Assoc. Prof.Dr. Belkıs ATASEVER ARSLAN**

**General:**

<b>Title, Name, Surname:</b>	Assoc.Prof.Dr. Belkıs Atasever Arslan
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<b>Birth date and place:</b>	May 7, 1980/İSTANBUL
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**Education:**

<b>BSc</b>	Biology	İstanbul University, Science Faculty	1997 - 2001
<b>MSc</b>	Physiology	İstanbul University, Istanbul Faculty of Medicine	2002 - 2004
<b>PhD</b>	Physiology	İstanbul University, Istanbul Faculty of Medicine	2004 - 2008

**Work Experiences:**

**Associate Professor:** Uskudar University, Faculty of Engineering and Natural Sciences, Department of Molecular Biology and Genetics 2018-

**Adjunct Associate Professor:** University of Illinois at Chicago, College of Medicine, Anatomy and Cell Biology 2019-

**Assistant Professor:** Uskudar University, Faculty of Engineering and Natural Sciences, Department of Molecular Biology and Genetics 2012-2018.

**Assistant Professor:** Dogus University, Faculty of Humanities and Social Sciences, Department of Psychology (Part Time) 2015-2018.

**Post Doc Fellow:** Sabancı University, Faculty of Engineering and Natural Sciences, Biological Sciences and Bioengineering. 2009-2012.

**Research Assistant:** Sabancı University, Faculty of Engineering and Natural Sciences, Biological Sciences and Bioengineering. 2007-2009.

**Lecturer (Physiology):** Okan University, Faculty of Humanities and Social Sciences, Department of Psychology

#### **Patent Applications:**

- **Belkıs Atasever Arslan**, Kaan Yılcıoğlu, Ahmet Can Timuçin, Selim Çetiner. (EPC + US + JP) "Use of triethyl orthoacetate in treatment of metal overload diseases" Application Number: EP16189535.4-1466, September 19, 2016
- **Belkıs Atasever Arslan**, Tunc Catal, Fevzi Cakmak Cebeci, Erhan Akdogan. (EPC + US + JP) "Electrical Energy Production Using Stem Cell Lines, and A Biofuel Cell Therefor" Application Number: PCT/TR2018/050767, December 5, 2018
- **Belkıs Atasever Arslan**, Bahri Ülküseven, Tülay Bal-Demirci "An antifreeze thiosemicarbazone compound" Application Number: PT2018/00056.
- Tunç Çatal, Vidan Enisoğlu-Atalay, **Belkıs Atasever-Arslan**, Yaman B, Cebecioğlu Selma Özilhan, Aykut Kul, Buğra Yaman, Rümeyza Cebecioğlu. "Quercetin Production" Application Number: PT2017-02287.

#### **Publications:**

- Enisoğlu-Atalay V, Atasever-Arslan B, Yaman B, Cebecioğlu R, Kul A, Özilhan S, Ozen F, Catal T. Chemical and molecular characterization of metabolites from *Flavobacterium* sp. PLoS One. 2018;13(10):e0205817.
- Atasever-Arslan B, Ozen F, Catal T, Akalin E. Resin extract obtained from Cilican fir (*Abies cilicica*) inhibits Glucose Dependent Inflammation in vitro. J Exp Ther Oncol. 2018 In press.
- Gur H, Ozen F, Akalin E, Atasever-Arslan B. Cytotoxicity, Total Phenolic and Flavonoid Contents of *Momordica charantia* in Neuroblastoma Cells. J Neurobehav Sci. 2018;5(2):92-96.
- Gurel G, Atasever-Arslan B. Therapeutic Effects of Probiotics on Multiple Sclerosis (MS) Diseases via TH17 Cells. J Neurobehav Sci. 2018;5(2):102-105.
- Yurtkap O, Atasever-Arslan B. Axonal Transport in Neurodegenerative Diseases. J Neurobehav Sci. 2018;5(2):115-123.
- Atasever Arslan B, Isik FB, Gur H, Ozen F, Catal T. Apoptotic effect of *Nigella sativa* on human lymphoma U937 Cells. Pharmacognosy Magazine. 2017;13(Suppl 3):S628-S632.
- Gur H, Ozen F, Saylan CC, Atasever Arslan B. Dinutuximab in Treatment of High Risk Neuroblastoma in Children. Clinical Medicine Insights: Therapeutics. 2017; 9:1-5.

- Kalkan Z, Durasi İM, Sezerman U, Atasever Arslan B. Potential of GRID2 Receptor Gene for Preventing TNF Induced Neurodegeneration in Autism. *Neuroscience Letters*. 2016; 620:62-69.
- Salcini C, Atasever Arslan B, Sunter G, Gur H, Isik FB, Saylan CC, Yalcin AD. Elevated Plasma Levels of Pentraxin 3 in Non-Neuropathic Pain in Patients with Diabetic Polyneuropathy. *Tohoku Journal of Experimental Medicine*.2016; 239(1):73-79.
- Kaya B, Atasever Arslan B, Kalkan Z, Gur H, Ulkuseven B. Apoptotic Mechanisms of N1-acetylacetone, N4-4-Methoxy-Salicylidene-Thiosemicarbazide Chelating with Nickel(II) on HL60 Leukemia Cells. *General Physiology and Biophysics*. 2016; 35(4):451-458.
- Atasever Arslan B, Yilancioglu K, Timucin AC, Kalkan Z, Gur H, Isik FB, Deniz E, Erman B, Cetiner S. Screening of new antileukemic agents from essential oils of algae extracts and computational modeling of their interactions with intracellular signaling nodes. *European Journal of Pharmaceutical Sciences*. 2016; 83:120-131.
- Atasever Arslan B, Yilancioglu K, Bekaroglu MG, Taskin E, Altinoz E, Cetiner S. Cytotoxic Effect of Extract from *Dunaliella salina* against SH-SY5Y Neuroblastoma Cells. *Gen Physiol Biophys*.2015;34(2):
- Farooqi AA, Attar R, Arslan BA, Romero MA, ul Haq MF, Qadir MI. Recently Emerging Signaling Landscape of Ataxia-telangiectasia Mutated Kinase (ATM). *Asian Pac J Cancer Prev*. 2014; 15(16): 6485-8.
- Atasever Arslan B, Erdem Kuruca S, Karakas Z, Erman B, Ergen A, Isbir T. Effects of Micro Environmental Factors on Natural Killer Activity (NK) of Beta Thalassemia Major Patients. *Cell Immunol* 2013; 282(2):93-99.
- Ligons DL, Tuncer C, Linowes BA, Akcay IM, Kurtulus S, Deniz E, Atasever Arslan B, Cevik SI, Keller HR, Luckey M, Feigenbaum L, Moroy T, Ersahin T, Atalay R, Erman B, Park JH. Transcriptional Control of Interleukin-7 Receptor Expression by Growth Factor Independence-1. *J Biol Chem* 2012; 287(41):34386-99.
- Tukul R, Atasever Arslan B, Aslantaş-Ertekin B, Ertekin E, Oflaz S, Ergen A, Erdem-Kuruca S, İsbir T. Decreased IFN-gamma and IL12 levels in panic disorder. *J Psychosom Res*. 2012;73(1):63-67.
- Atasever B, Ülküseven B, Bal-Demirci T, Erdem-Kuruca S, Solakoğlu Z. Cytotoxic activities of new iron(III) and nickel(II) chelates of some S-methyl-thiosemicarbazones on K562 and ECV304 cells. *Invest New Drugs*. 2010;28(4):421-432.
- Pırıldar S, Sütülpınar N,, Atasever B, Erdem-Kuruca S, Papouskova B, Šimánek V. Chemical Constituents of the Different Parts of *Colchicum baytopiorum* (Liliaceae) and Their Cytotoxic Activities on K562 and HL60 cell-lines. *Pharm Biol*. 2010;48(1):32-39.
- Kurt YD, Ulkuseven B, Atasever B, Solakoglu ZO, Erdem-Kuruca S. Synthesis, Characterization and Cytotoxic Properties of Pd(II), Cd(II) and Hg(II) Complexes of 2-Amino-5-ChloroBenzophenone-4-(H/Ph)-Thiosemicarbazones. *Main Group Met Chem*. 2008; 31(5):273-281.
- Bal T, Atasever B, Solakoglu Z, Erdem-Kuruca S, Ulkuseven B. Synthesis, characterisation and cytotoxic properties of the N(1),N(4)-diarylidene-S-methyl-thiosemicarbazone chelates with Fe(III) and Ni(II). *Eur J Med Chem*. 2007;42(2):161-167.
- Turan N, Akgün-Dar K, Erdem Kuruca S, Kılıçaslan-Ayna T, Seyhan VG, Atasever B, Meriçli F, Çarın M. Cytotoxic effects of leaf, stem and root extracts of *Nerium oleander* on leukemia cell lines and role of the p-glycoprotein in this effect. *J Exp Ther Oncol*. 2006;6(1):31-38.

- Atasever B, Ertan NZ, Erdem-Kuruca S, Karakaş Z. In vitro effects of vitamin C and selenium on NK activity of patients with beta-thalassemia major. *Pediatr Hematol Oncol.* 2006;23(3):187-197.
- Aksu-Uzunhan T, Karakas Z, Erdem Kuruca S, Çetin B, Karadenizli S, Akdeniz N, Atasever B, Deniz G. Akut Lenfoblastik Lösemili Çocuklarda Kemoterapinin Doğal Öldürücü (NK) Hücreler Üzerine Etkileri. *Çocuk Dergisi* 2011;11(4):160-169.
- Atasever B, Akgün Dar K, Kuruca S, Turan N, Seyhanlı V, Meriçli A. Cynara Syriaca'dan elde edilen flavonoidlerin lösemi hücreleri üzerine etkisi *Ankara Ecz Fak Derg.* 2003;32(3):143-150.
- Atasever B, Erdem Kuruca S. Normal ve Lösemik Hematopoez. *Sendrom* 2004; 16(1): 93-99.

## Books/Chapters

**Surgical Anatomy of Function, 2018, US Akademi ISBN: 978-605-9358-50-7:**

Chapter 1: **Belkis Atasever Arslan.** "Histopathological Features of Neurons and Neuroglia"

Chapter 2: Pinar Oz, **Belkis Atasever Arslan.**" Types of Axons and Dendrites at the subcellular level, and their functional properties"

Chapter 3: **Belkis Atasever Arslan,** Kaan Yilancioglu. "Protein synthesis, cell skeleton formation and functional properties"

## Papers in Conference Proceedings

- Karakas Z, Erdem Kuruca S, Akcay A, Atasever B, Aydogan G, Bulbul A, Goksan B, Gedikoğlu G. In vitro drug resistance in childhood all and its relation with the prognostic factors. 5th International Symposium on Leukemia and Lymphoma, Amsterdam. *Leukemia.* 2003;17(3):675- 689.
- Karakas Z, Erdem-Kuruca S, Anak S, Atasever B, Bilgen H, Saribeyoğlu E,. Gedikoğlu G. Can in vitro drug resistance predict the outcome of childhood myelodysplastic syndromes and acute myeloblastic leukemia? III. International Symposium on MDS in Childhood. 2003; Italy.
- Karakas Z, Erdem Kuruca S, Atasever B, Bilgen H, Saribeyoğlu E, Bulbul A, Anak S, Gedikoğlu G. Clinical significance of in vitro drug resistance in childhood myelodysplastic syndromes and acute myeloblastic leukemia. *Leuk Res.* 2003; 27(1): S1-S123
- Atasever B, Erdem Kuruca S, Karakaş Z, Agaoglu L. In vitro modulation of cellular immunity with antioxidants in patients with thalassemia major. 46th ASH Annual Meeting, 2004.
- Karakas Z, Kuruca SE, Akcay A, Atasever B, Aydogan G, Gökce S, Agaoglu L, Gedikoglu G. In vitro drug resistance in childhood ALL and effect on prognosis. XXX. World Congress of the International Society of Hematology, 2005, Istanbul, Turkey.
- Karakas Z, Kuruca SE, Atasever B, Akcay A, Aydogan G, Gökce S, Gedikoglu G. In vitro anthracycline resistance in childhood ALL. XXX. World Congress of the International Society of Hematology, 2005, Istanbul, Turkey.
- Kuruca SE, Atasever B, Karakas Z, Ademoglu E, Agaoglu L. Effect of antioxidants on oxidative stress in patients with Thalassemia Major: in vitro study. XXX. World Congress of the International Society of Hematology, 2005, Istanbul, Turkey.

- Pirildar S, Atasever B, Yesiltepe B, Erdem-Kuruca S, Sutlupinar N. Cytotoxic effects of seeds of *Colchicum Baytopiorum* and *Colchicum Bivonae* on K562 cells. International Symposium "Chemistry, Pharmacology and Biosynthesis of Alkaloids.", 2006, Antalya, Turkey.
- Bal T, Atasever B, Solakoğlu Z, Erdem-Kuruca S, Ülküseven B. Cytotoxic effects of four new thiosemicarbazones on K562 and ECV 304 cells. 31st FEBS Congress. The FEBS J. 2006; 273(1): 345-346. Istanbul, Turkey.
- Erdem-Kuruca S, Karakas Z, Akcay A, Atasever B, Aydogan G. In vitro drug resistance in childhood ALL and effects on prognosis. Chinese J Pathophysiology. 2006; 22(13): 390.
- Pirildar S, Atasever B, Yesiltepe B, Erdem-Kuruca S, Sutlupinar N. Cytotoxic effects of different parts of *Colchicum Baytopiorum* on K562 and HL60 cells. A Young Scientists Symposium "Future Trends in Phytochemistry". 2006, Olomouc, Czech Republic.
- Atasever B. Cytotoxicity tests in leukemia. (Lecture). 2th Congress of Molecular Medicine. 2007, Istanbul, Turkey. 13. Atasever B, Erdem Kuruca S, Karakas Z, Erman B, Ergen A, Isbir T. Correlation Between Defective NK Activity and Low Expression of CD16, NKp44 and NKG2D in Beta Thalassemia Patients. Blood ASH Annual Meeting, 2008; 112: A5425.
- Atasever B, Erdem Kuruca S, Karakas Z, Erman B, Ergen A, Isbir T, Gunal G. Phenotypic and Functional Studies of Natural Killer (NK) Cell Subsets in beta- Thalassemia Major Patients. Haematologica 2009; 94(2): 500-501. A1255.
- Karakas Z, Atasever B, Erdem Kuruca S, Erman B, Ergen A, Isbir T, Agaoglu L. Natural Killer Activity and Effect of IL-2 in Patients with beta-Thalassemia Major. Haematologica 2009; 94(2): 502. A1259.
- Erdem-Kuruca S, Ülküseven B, Bal-Demirci T, Atasever B. Selective Antitumor Activities of New Iron(III) and Nickel(II) Chelates of S-Methyl-Thiosemicarbazones on Cell Lines. 6th International Congress of Pathophysiology 2010, Quebec, Canada.
- Karakas Z, Atasever-Arslan B, Erdem-Kuruca S. Natural Killer Activity and In Vitro Effects of IL2 in Patients with Beta-Thalassemia Major. 12th International Conference on Thalassaemia and The Haemoglobinopathies 2011, Antalya,Turkey.
- Atasever-Arslan B, Erdem-Kuruca S, Karakas Z, Erman B, Ergen A, Isbir T. Immunological Mechanisms Underlying Decreased NK Activity in Beta-Thalassemia Major Patients. 12th International Conference on Thalassaemia and The Haemoglobinopathies 2011, Antalya,Turkey.
- Tükel R, Atasever-Arslan B, Ertekin BA, Ertekin E, Oflaz S, Zeybek U, Erdem-Kuruca S, Isbir T. Decreased IFN-gamma Activity in Anxiety Disorders. 14th Multidisciplinary International Conference on Neuroscience and Biological Psychiatry, 2010, St-Petersburg, Russia.
- Atasever B, Akgün Dar K, Kuruca S, Seyhanlı V, Meriçli A. Effects of flavonoids on leukemic cells 28. National Physiology Congress, 2002, İzmir.
- Turan N, Akgün Dar K, Kuruca S, Meriçli F, Süzergöz F, Atasever B. Antileukemic effects of plant extracts obtained from *Nerium Oleander* 28. National Physiology Congress, 2002, İzmir.
- Gökçe S, Karakaş Z, Demirel GY, Erdem Kuruca S, Akçay A, Atasever B, Yıldırım Y, Aydoğan G, Ünüvar A, Sarıbeyoğlu ET, Özbek U, Deniz G. DNA index in children with newly diagnosed acute lymphoblastic leukemia and drug-resistance relationship. 26. Days of Pediatrics, 2004, İstanbul.
- Gökçe S, Karakaş Z, Erdem Kuruca S, Atasever B, Akçay A, Aydoğan G, Yıldırım Y, Ağaoğlu L, Anak S, Devecioğlu Ö. In vitro drug resistance in childhood acute lymphoblastic leukemia 26. Days of Pediatrics, 2004, İstanbul.

- Atasever B, Kuruca SE, Karakaş Z, Şentürk S. Antioxidants modulation of NK activity in patients with thalassemia 30. National Physiology Congress, 2004, Konya. Journal of General Medicine 2004;14:71.
- Atasever B, Kuruca SE, Karakaş Z, İnce N. Cellular immunity in  $\beta$ -patients with thalassemia major. 30. National Physiology Congress, 2004, Konya. Journal of General Medicine 2004;14:71.
- Kuruca SE, Karakas Z, Atasever B, Akcay A, Aydogan G, Gedikoglu G. Effects of Chromosome translocations on drug resistance in acute lymphoblastic leukemia. 31. National Physiology Congress, 2005, Gaziantep.
- Kuruca SE, Karakas Z, Atasever B, Akcay A, Aydogan G, Gedikoglu G. Prognostic factors relation with in vitro drug resistance in childhood leukemia. 31. National Physiology Congress, 2005, Gaziantep.
- Pırıldar S, Sütülpınar N, Atasever B, Erdem-Kuruca S, Papouskova B, Šimánek V. Pharmacognosic Researches on *Colchicum Baytopiorum* C.D. Brickell. 17. Herbal Pharmaceutical Raw Materials Conference, 2007, Kuşadası.

## Projects

- 2017-2018 TÜBİTAK 2209-A (Advisor) *Berberis crataegina* (Karamukdikeni) Bitkisi Kök Ekstratının Pankreas Hücrelerinde İn Vitro Antidiyabetik Etkisinin Moleküler Mekanizmasının Araştırılması.
- 2016-2017 TÜBİTAK 2209-A (Advisor) *Abies cilicica* (Mezde Sakızı) Ekstresinin Antiinflamatuvar Etkisinin Araştırılması ve Hücre İçi Sinyal Yolaklarının İncelenmesi.
- 2013-2016 TÜBİTAK 3501-113S251 (Principal Investigator) Investigation of Molecular and Mechanistic Basis of Antileukemic Drug Potential of Microalgae belonging to the *Chlorophyceae*, *Cyanophyceae*, *Prymnesiophyceae*, *Bacillariophyceae* and *Eustigmatophyceae* Families
- 2009-2010 TUBİTAK 2218 Post-Doctoral Research Project. Study of Control Mechanisms of Immune System Gene IL7R
- 2010-2012 Study-TUBA-DSAP Post-Doctoral Research Project. Immune System Control Mechanisms in Gene IL7R
- 2010-2013 TUBİTAK 1001 - 109T315 (Post-Doctoral Research Fellow). Investigation of the control mechanisms of gene IL7R
- 2005-2007 6th. FW Programme, Marie Curie International Reintegration Grant (Batu Erman). "Screening for plant Factors that modify the function of the mammalian immune system." (Research Assistant).
- 2006-2007 BYPS-12-5/131206 (Research Assistant). Investigation Values of pro-inflammatory cytokines and NK Activity in Patients with Panic Disorder.
- 2006-2008 Istanbul University Research Fund (BAP) T-830 (Project Head). Investigation of the factors affecting NK (Natural Killer) in activity patients with beta thalassemia major.
- 2006-2007 Istanbul University Research Fund (BAP) 516 / 05,052,006 (Research Assistant). Synthesis, Characterization and Cytotoxic Properties of Thiosemicarbazones.
- 2004-2005. Istanbul University Research Fund (BAP) T435/08032004 (Research Assistant). Investigation of Cytotoxic Activity of *Colchicum baytopiorum*.

- 2003-2004, Study. Istanbul University Research Fund (BAP) 1112/18062003 (Research Assistant). Synthesis, Characterization and Cytotoxic Properties of Thiosemicarbazones Chlorobenzophenon
- 2003-2004 Istanbul University Research Fund (BAP) T-431/08032004. In vitro modulation of Cellular Immune Functions of peripheral lymphocytes with Antioxidant Substances in patients with Thalassemia.

#### Awards

- *Gokce S, Karakas Z, Demirel GY, Erdem-Kuruca S, Akcay A, Atasever B, intimidation Y, Aydogan G, Ünüvar A, Missing ET, Ozbek U, Sea G. DNA index in children with newly diagnosed acute lymphoblastic leukemia and drug-resistance relationship. Cihat Tahsin Gursoy Foundation Second Prize in 2004.*
- *Turkish Academy of Science (TUBA) Domestic Post-Doctoral Research Fellowship Program 2010-2012.*
- *The Scientific and Technological Research Council of Turkey (TUBITAK) Post-Doctoral Research Program Fellowship 2009-2010.*
- *Tukel R, Atasever Arslan B, Aslantaş-Ertekin B, Ertekin E, Oflaz S, Ergen A, Erdem-Kuruca S, İsbir T. Decreased IFN-gamma and IL12 levels in panic disorder. J Psychosom Res. 2012;73(1):63-67. TÜBİTAK Incentive Award for International Scientific Publications, 2012.*
- *Atasever B, Ülküseven B, Bal-Smith T, Erdem-Kuruca S, Solakoğlu Z. Cytotoxic activities of the new iron (III) and nickel (II) chelates of some S-methyl-thiosemicarbazones on K562 and ECV304 cells. Invest New Drugs. 2010, 28 (4) :421-432. TUBITAK Incentive Award for International Scientific Publications, 2010.*
- *Honey T, Atasever B, Solakoğlu Z, Erdem-Kuruca S, Ülküseven B. Synthesis, characterization and cytotoxic properties of the N (1), N (4)-diarylidene-S-methyl-thiosemicarbazone chelates with Fe (III) and Ni (II). Eur J Med Chem. 2007, 42 (2) :161-167. TUBITAK Incentive Award for International Scientific Publications, 2007.*
- *Atasever B. IU Rector for Scientific Research Projects Unit "Certificate of Successful Researcher" in 2007.*
- *Atasever B. IU Rector for Scientific Research Projects Unit "Certificate of Successful Researcher" 2008.*

#### Undergraduate and Graduate level courses (2017-2018)

Academic year	Term	Courses	Weekly Hours		Number of Students
			Theoretical	Practice	
2017-2018	Autumn	Systems Neuroscience (G)	3	0	38
		Genetics(UG)	3	2	65
		Immunology (UG)	2	0	30
		Histology and Embriology(UG)	3	0	35

		General Biology I(UG)	3	2	93
		Memory(UG)	3	0	39
	Spring	Molecular Neuroscience (G)	3	0	35
		Physiology (UG)	3	2	99
		Neurophysics(UG)	3	0	10
		Molecular Genetics(UG)	3	0	65
		Memory(UG)	3	0	46