



# Dr. Aysun ADAN

## **Address**

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**E-mail:** aysunadan@windowslive.com

**Date of Birth:** 29/02/1984

## **RESARCH INTERESTS**

**Primary Interets:** Molecular Biology of Cancer especially leukemia, Natural Products and Their Anti-carcinogenic potentials, Multidrug Resistance Mechanisms, Reversal of Resistance, Apoptosis, The Involvement of Bioactive Sphingolipids in Apoptosis and Drug Resistance, Combination Therapies, Stem Cells and Their Regenerative Potential, Signalling Pathways

## EDUCATION

**Ph.D.** Izmir Institute of Technology, Department of Molecular Biology and Genetics, Cancer Genetics, İzmir, TURKEY, CGPA: 4.00/4.00  
**2010- 2015**  
**Project Title:** Therapeutic Potentials of Fisetin, Hesperetin and Vitexin on Chronic Myeloid Leukemia and Acute Myeloid Leukemia Cells.  
**Thesis Supervisor:** Prof. Dr. Yusuf BARAN

**M.S.** Izmir Institute of Technology, Department of Molecular Biology and Genetics, Microbial Genetics, İzmir, TURKEY, CGPA: 4.00/4.00  
**2006-2009**  
**Project Title:** Isolation and identification of a lipase producing psychrotrophic bacteria from soil: cloning and partial characterization of its lipase.  
**Thesis Supervisor:** Assist. Prof. Dr. Alper ARSLANOĞLU  
**Thesis Co- Supervisor:** Assoc. Prof. Dr. H. Çağlar KARAKAYA

**B.S.** Ege University, Department of Biology, Fundamental and Industrial Microbiology Division, Izmir, TURKEY, CGPA: 90.17  
**2002-2006**

**English Preparatory Division 2001-2002** Ege University, School of Foreign Languages, Izmir, TURKEY

## WORKING EXPERIENCE

DATE	POSITION	INSTITUTION
2017 October-	Vice Department Chair	Abdullah Gul University Faculty of Life and Natural Sciences, Molecular Biology and Genetics, Kayseri, Turkey
2015-	Assistant Prof	Abdullah Gul University Faculty of Life and Natural Sciences, Molecular Biology and Genetics, Kayseri, Turkey
2007-2015	Research &	Izmir Institute of Technology

	Teaching Assistant	Department of Molecular Biology & Genetics Izmir, Turkey.
2013-2014	Visiting Scholar  (TUBITAK)	Medical University of South Carolina Holling Cancer Center Department of Biochemistry & Molecular Biology South Carolina, USA.

## TEACHING EXPERIENCE

### **In Izmir Institute of Technology**

- Molecular Biology Laboratory (MBG 212)
- Biochemistry Laboratory (MBG 311)
- Cell Biology Laboratory (MBG 211)
- Microbiology Laboratory (MBG 214)

### **Abdullah Gul University**

- Science of Nature I (SCI101) class recitation: Teaching assistant (2014-2015 Fall semester)
- Science of Nature I (SCI101) class: Invited lecturer (2014-2015 Spring semester)
- Science of Nature II (SCI102) class: Summer school (2014-2015)
- Science of Nature I (SCI101) class: Lecturer (2015-2016 Fall Semester)
- Cancer Biology and Treatment (BENG514): Graduate course (2016-2017 Fall and Spring semester)
- Biology for Engineers I (BIO101) (2016-2017 Fall semester)
- Biology for Engineers II (BIO102): Lisans Dersi (2016-2017 Spring semester)
- Stem Cells (BENG537): Graduate course (2016-2017 Spring semester )
- Basic Principles of Biology I (MBG101) (2017-2018 Fall)
- Food and Health (GLB201) (2017-2018 Fall)

**Cakabey College (2012): Project Assistant:** Teaching general cell culture techniques and specific methodologies involved in the project in theoretic and practice and also how to write a research project

- **Project Title:** Antiproliferative and Apoptotic Effects of SK-1 Inhibitor on A549 Human Lung Cancer Cells
- Research Projects Competition for Secondary Education Students by **TUBITAK**

**TAKEV College (2012): Project Assistant :** Teaching general cell culture techniques and specific methodologies involved in the project in theoretic and practice and also how to write a research project

- **Project Title:** Cytotoxic and Apoptotic Effects of Dexamethasone in Combination with Quercetin on Acute Lymphoblastic Leukemia Cells
- Research Projects Competition for Secondary Education Students by **TUBITAK**

**Undergraduate Project Assistant: Burcu Fıratlıgil, 2010-2012**

**Neval Sevinç, 2010-2012**

**Melis Dilara Arslanhan, 2011-2012**

**Miray Ünlü, 2012-2013**

- Teaching cell culture techniques and specific methodologies, Teaching main topics about molecular biology of cancer
- Each student had their own project throughout their study such as miRNAs and their roles in drug-resistant Chronic Myeloid Leukemia (CML), Effects of natural plant derived products on several cancer types such as CML, Chronic Lymphocytic Leukemia

**Summer Student Project Assistant: Akın Erol, 2013 (Transylvania University, Biochemistry):** Teaching general cell culture techniques and specific methodologies  
Teaching main topics about molecular biology of cancer

## **AWARDS**

**2015**

1. **15th annual FEBS Young Scientists' Forum Grant**
2. **Best Poster Award, Experimental Hematology Association**

3. **Travel Grant**, 8th International Ceramide Conference (iCC8) and the Sphingolipid Club joint meeting
4. **Eczacıbaşı Holding**, Dr. Nejat F. Eczacıbaşı Medicine Award, Scientific Project Support Award

#### **2014**

5. **Young Researcher Award**, by Turkish Society of Hematology
6. **Best Poster Award**, IX. National Pediatric Allergy and Asthma Congress
7. **II nd Honourable Mention Oral Presentation Award**, 1st International Stem Cell and Cellular Therapy Congress
8. **III rd Honourable Mention Oral Presentation Award**, 1st International Stem Cell and Cellular Therapy Congress

#### **2013**

9. **TÜBİTAK-BİDEB 2214/A Scholarship for doctoral thesis study** (2013-2014 Medical University of South Carolina, SC-USA)
10. **Experimental Hematology Award**, by Turkish Society of Hematology
11. **First Prize**, II International Food R&D Brokerage Event

#### **2011**

12. **Young Researcher Award**, by Turkish Society of Hematology

#### **2006**

13. **Highest Ranking Student of The Department**, Ege University, Department of Biology

### **PUBLICATIONS (ARTICLES)**

#### **2017**

1. **Aysun Adan**, Günel Alizadeh, Yağmur Kiraz, Ayten Nalbant, Yusuf Baran. Flow cytometry: Basic Principles and Applications. **Critical Reviews in Biotechnology**. **2017**;37(2):163-176.
2. Amuk NG, Kurt G, Baran Y, Seyrantepe V, Yandim MK, **Adan A**, Demir SA4, Kiraz Y, Sonmez MF. Effects of cell-mediated osteoprotegerin gene transfer and mesenchymal stem cell applications on orthodontically induced root resorption of rat teeth. Eur J Orthod. Eur J Orthod. **2017**;39(3):235-242.
3. Işık S, Karaman M, **Adan A**, Kıray M, Bağrıyanık HA, Sözmen ŞÇ, Kozanoğlu İ, Karaman Ö, Baran Y, Uzuner N. Intraperitoneal mesenchymal stem cell

administration ameliorates allergic rhinitis in the murine model. *Eur Arch Otorhinolaryngol.* **2017**;274(1):197-207.

## 2016

4. **Aysun Adan**, Yusuf Baran. Fisetin and Hesperetin Induced Apoptosis and Arrested Cell Cycle in Chronic Myeloid Leukemia Cells Accompanied by Modulation of Cellular Signaling. *Tumor Biology.* **2016**; 37(5):5781-95.
5. Melis Kartal Yandım, **Aysun Adan**, Yusuf Baran. Molecular mechanisms of drug resistance and its reversal in cancer. *Critical Reviews in Biotechnology.* **2016**; 36(4):716-26.
6. Yağmur Kiraz, **Aysun Adan**, Melis Kartal Yandım, Yusuf Baran. Major apoptotic mechanisms and genes involved in apoptosis. *Tumor Biology.* **2016**; 37(7):8471-86.
7. **Adan A**, Kiraz Y, Baran Y. Cell Proliferation And Cytotoxicity Assays. *Curr Pharm Biotechnol.* **2016**;17(14):1213-1221.

## 2015

8. **Aysun Adan**, Yusuf Baran. The Pleiotropic Effects of Fisetin and Hesperetin on Human Acute Promyelocytic Leukemia Cells Are Mediated through Apoptosis, Cell Cycle Arrest and Alterations in Signaling Networks. *Tumor Biology,* **2015**; 36(11):8973-84.
9. Burçin Tezcanlı KAYMAZ, Nur Selvi Günel, Metin Ceyhan, Vildan Bozok Çetintaş, Buket Özel, Melis Kartal Yandım, Sezgi Kıpçak, Çağdaş Aktan, **Aysun Adan**, Yusuf Baran, Buket Kosova Can. Revealing Genome Wide mRNA and microRNA Expression Patterns in Leukemic Cells Highlighted "hsa-miR-2278" as a Tumor Suppressor for Regain of Chemotherapeutic İmatinib Response due to Targeting STAT5A. *Tumor Biology,* **2015**; 36(10):7915-27.
10. Katgı A, Sevindik OG, **Adan A**, Ozsan GH, Yüksel F, Solmaz SM, Alacacıoğlu I, Ozcan MA, Demirkan F, Baran Y, Pişkin O. Nilotinib Does Not Alter the Secretory Functions of Carotid Artery Endothelial Cells in a Prothrombotic or Antithrombotic Fashion. *Clin Appl Thromb Hemost,* **2015**; 21(7):678-83.
11. **Aysun Adan**, Yusuf Baran. A Novel Natural Product, KL-21, Inhibits Proliferation and Induces Apoptosis in Chronic Lymphocytic Leukemia Cells. *Turkish Journal of Hematology,* **2015**; 32(2):118-26.
12. Melis Kartal Yandım, **Aysun Adan**, Yağmur Kiraz, Yusuf Baran. Rejenerative Medicine. *Turkiye Klinikleri J Med Oncol-Special Topics,* **2015**, 8(2).

## 2014

13. Aydemir LY, **Adan A**, Baran Y, Yemenicioglu A. Bioactive, functional and edible film making properties of different protein isolates from Turkish hazelnut (*Corylus avellana* L.) meal obtained from oil extraction. *Food Hydrocolloids*, **2014**; 36:130-142. (One of top 25 hottest and most downloaded articles in food hydrocolloids).
14. Solmaz S, **Adan A**, Cincin B, Ozdogu H, Boga C, Cakmakoglu B, Kozanoglu I, Baran Y. Therapeutic Potential of Apigenin, a Plant Flavonoid, for Imatinib-Sensitive and Resistant Chronic Myeloid Leukemia Cells. *Nutrition and Cancer*, **2014**; 66(4):599-612.

## 2013

15. **Adan A**, Apohan E, Baran Y. Resveratrol and quercetin induced apoptosis of human 232B4 chronic lymphocytic leukemia cells by activation of caspase-3 and cell cycle arrest. **2013**, *Hematology*, 18(3):144-50.
16. **Adan A**, Kartal-Yandim M, Iskender G, Baran Y. Novel Agents Targeting Bioactive Sphingolipids for the Treatment of Cancer. *Current Medicinal Chemistry*, **2013**; 20: 108-122.
17. Kaymaz BT, Selvi N, **Adan A**, Aktan Ç, Gündüz C, Saydam G, Şahin F, Çetintaş VB, Baran Y, Kosova B. Suppression of STAT5A and STAT5B Chronic Myeloid Leukemia Cells via siRNA and Antisense-Oligonucleotide Applications with the Induction of Apoptosis. *American Journal of Blood Research*, **2013**; 3(1): 58-70.
18. Kiper HD, Tezcanli B, **Adan A**, Selvi N, Avcı CB, Kosova BK, , Iskender G, Yandım MK, Gunduz C, Sahin F, Baran Y, Saydam G. STAT pathway in the regulation of zoledronic acid-induced apoptosis in chronic myeloid leukemia cells. *Biomedicine and Pharmacotherapy*, **2013**; 67(6):527-532.
19. **Aysun Adan**, Alper Arslanoglu. Purification and biochemical characterization of an extracellular lipase from a psychrotolerant *Pseudomonas fluorescens* KE38. *Turkish Journal of Biology*, **2013**, 37:538-546.

## 2012

20. Purclutepe O, Iskender G, Kiper HD, Tezcanli B, Selvi N, Avcı CB, Kosova B, **Adan A**, Sahin F, Baran Y, Saydam G. Enalapril-Induced Apoptosis of Acute Promyelocytic Leukemia Cells Involves STAT5A. *Anticancer Research*, **2012**; 32: 2885-2894.

## **Book Chapters**

- 21. Adan A**, Kartal M, Baran Y. Molecular Biology of Breast Cancer. **2011**, Book Chapter, Molecular Approaches to Breast Cancer, ISBN: 978-975-483-928-9.
- 22. Adan A**, Osman Oğuz. Pleiotropic Molecular Effects of Dietary Polyphenols Resveratrol and Apigenin in Leukemia, Book Chapter in Polyphenols in Human Health and Disease, **2018**, Elsevier (In press)
- 23. Adan A**. Kanserde Sfingolipidler, Kanser Moleküler Biyolojisi, **2018**, ISBN: 978-605-2329-28-3

## **GENES PUBLISHED IN NCBI**

- Pseudomonas sp. KE38 16S ribosomal RNA gene, partial sequence. **GenBank Accession number: HQ215545**
- Pseudomonas sp. KE38 lipase gene, partial cds. **GenBank Accession number: GU460163.1**

## **ABSTRACTS PUBLISHED/PRESENTED IN INTERNATIONAL CONFERENCES**

### **2011**

- 1. Adan A**, Kartal M, Yaşar M, Baran Y. A Promising New Anticancer Agent, KL-21, Inhibits Proliferation And Cell Cycle Progression And Induces Apoptosis In Chronic Lymphocytic Leukemia Cells But Has No Effect On Healthy Cells. EACR Anticancer Agents Research Congress. 13-16 October **2011**, Antalya, Türkiye (Oral)

### **2012**

- 2. Baran Y, Adan A, Yasar M**. A Novel Agent, KL-21, Has Significant Anticancer Potential On Chronic Lymphocytic Leukemia Cells But Not In Healthy Cells. Haematologica, 17th Congress of European Hematology Association, 14-17 June **2012**, Amsterdam, Netherlands (Abstract Book Only)
- 3. Baran Y, Adan A, Apohan E, Pişkin O, Ozcan MA**. Quercetin Induced Apoptosis In 232B4 Chronic Lymphocytic Leukemia Cells. Haematologica, 17th Congress of European Hematology Association, 14-17 June **2012**, Amsterdam, Netherlands (Abstract Book Only)
- 4. Baran Y, Adan A, Ozcan MA, Pişkin O, Unlü M**. Antiproliferative And Apoptotic Effects Of Resveratrol On Chronic Lymphocytic Leukemia Cells. Haematologica,



17th Congress of European Hematology Association, 14-17 June **2012**, Amsterdam, Netherlands (Abstract Book Only)

## **2013**

5. Baran Y, **Adan A**, Cincin ZB, Cakmakoglu B, Kozanoglu I. Changes in Gene Expression Profiles in Response to Apigenin in Imatinib Sensitive and Resistant Chronic Myeloid Leukemia Cells. 18th. Congress of European Hematology Association, 13-17 June **2013**, Stockholm, Swiss (Abstract Book Only)
6. Baran Y, **Adan A**, Solmaz A, Kozanoglu I, Ozdogu H. Effects of Apigenin on Imatinib-Sensitive And Resistant Chronic Myeloid Leukemia Cells. 18th. Congress of European Hematology Association, 13-17 June **2013**, Stockholm, Swiss (Abstract Book Only)
7. Katgı A, **Adan A**, Sevindik ÖG, Yüksel F, Solmaz SM, Özsan GH, **Baran Y**, Pişkin O. Effect of Nilotinib on the Function of Carotid Artery Endothelial Cells. 18th. Congress of European Hematology Association, 13-17 June **2013**, Stockholm, Swiss (Poster)

## **2014**

8. Tezcanlı Kaymaz Burçin, Selvi Nur, **Adan Aysun**, Aktan Çağdaş, Gündüz Cumhuri, Saydam Güray, Şahin Fahri, Bozok Çetintaş Vildan, Baran Yusuf, Kosova Buket. Suppression of STAT5A and STAT5B chronic myeloid leukemia cells via siRNA and antisense-oligonucleotide applications with the induction of apoptosis, FEBS EMBO Congress, 30 August-4 September **2014**, Paris, France, FEBS Journal 281 (Suppl 1) 2014;65:783, 398-399. (Poster)
9. **Aysun Adan**, Besim Ogretmen, Yusuf Baran. Targeting Sphingosine Kinase-1/Sphingosine-1-Phosphate Receptor 2 Signalling Pathway To Overcome T315I Mutation in 32dcl3 Cells. V. International Eurasia Hematology Congress, 15-19 October **2014**, Antalya, Turkey (Poster no:59)
10. **Aysun Adan**, Yusuf Baran. Cytotoxic And Apoptotic Effects of Fisetin, Hesperetin and Vitexin on Acute Promyelocytic Leukaemia Cells. V. International Eurasia Hematology Congress, 15-19 October **2014**, Antalya, Turkey (Poster no:60).
11. **Aysun Adan**, Yusuf Baran. Therapeutic Potential of Fisetin, Vitexin and Hesperetin on Chronic Myeloid Leukemia Cells. V. International Eurasia Hematology Congress, 15-19 October **2014**, Antalya, Turkey (Poster no:66)
12. Sakine Işık, Meral Karaman, Yusuf Baran, Müge Kıray, Şule Çağlayan-Sözmen, Hüsnü Alper Bağrıyanık, İlknur Kozanoğlu, **Aysun Adan**, Özkan Karaman, Nevin

Uzuner. Effects of mesenchymal stem cell on lung and nasal histopathology and cytokin levels of allergic rhinitis mice model. 1st International Stem Cell and Cellular Therapy Congress, 20-23 March **2014**, Kocaeli, Turkey (Oral)

- 13.** Pinar Eroğlu, Melis Kartal Yandım, **Aysun Adan**, Yağmur Kiraz, Ilknur Kozanoglu, Yusuf Baran. Identification of Potential of Mesenchymal Stem Cells to reduce detrimental effects of Aging via molecular, histomorphological and immunohistochemistry Techniques: In vivo experimental study. 1st International Stem Cell and Cellular Therapy Congress, 20-23 March **2014**, Kocaeli, Turkey (Oral)
- 14.** Isik S, Karaman M, Baran Y, Kiray M, Caglayan-Sozmen S, Bagriyanik HA, Kozanoglu I, **Adan A**, Karaman O, Uzuner N. The effect of mesenchymal stem cells on lung and nasal histopathology and cytokin levels in a murine model of allergic rhinitis. European Academy of Allergy and Clinical Immunology Congress, 7-11 July **2014**, Copenhagen, Denmark. Volume: 69 Pages: 203-203 Supplement: 99 Special Issue: SI Meeting Abstract: 472
- 15.** **A. adan**, Y. Baran. Investigation of Effects of Fisetin, Vitexin and Hesperetin on Chronic Myeloid Leukemia Cells. 19th. Congress of European Hematology Association, 12-15 June **2014**, Milan, Italy (PB1541)

## **2015**

- 16.** **Aysun Adan**, Yusuf Baran. Therapeutic Potential of Fisetin and Identification of Its Mechanisms in Action in Chronic Myeloid Leukemia and Acute Promyelocytic Leukemia Cells. 15th annual FEBS Young Scientists' Forum (YSF) July 2-4, 2015, Berlin, Germany (Poster)
- 17.** **Aysun Adan**, Yusuf Baran. Therapeutic Potential of Fisetin and Identification of Its Mechanisms in Action in Chronic Myeloid Leukemia and Acute Promyelocytic Leukemia Cells. 40th FEBS Congress, July 4-9, 2015, Berlin, Germany (Poster)
- 18.** **Aysun Adan**, Besim Ogretmen, Yusuf Baran. Overcoming nilotinib resistance by specific inhibition of sphingosine-1-phosphate receptor 2/gq/phospholipase c axis in chronic myeloid leukemia. 8th International Ceramide Conference (iCC8) and the Sphingolipid Club joint meeting, May 6-10, 2015, Çeşme, Turkey (Poster)
- 19.** Burçin Tezcanlı Kaymaz, Nur Selvi Günel, Metin Ceyhan, Vildan Bozok Çetintaş, Melis Kartal Yandım, Buket Özel, Sezgi Kıpçak, Çağdaş Aktan, **Aysun Adan**, Yusuf Baran, Cumhuriyet Gündüz, Buket Kosova Can. Revealing Genome Wide mRNA and miRNA Expression Profiles in Parental and Imatinib Resistant Chronic Myeloid

Leukemia Cells. V. International Congress of Molecular Medicine, 20-22 May 2015, Dokuz Eylül University, Izmir, Turkey (PP-128)

20. Burçin Tezcanlı Kaymaz, Nur Selvi Günel, Vildan Bozok Çetintaş, **Aysun Adan**, Yusuf Baran, Cumhuri Gündü, Buket Kosova Can. Targeting STAT3 has therapeutic potential to regain nilotinib response in parental and resistant chronic myeloid leukemia cells. EACR Sponsored 3rd Anticancer Agent Development Congress. 18-19 May 2015, İzmir, Türkiye
21. **A. adan**, Y. Baran. A genome-wide analyses of differentially expressed genes and related networks affected by fisetin and hesperetin in chronic myeloid leukemia cells. 20th. Congress of European Hematology Association, 11-14 June **2015**, Vienna, Australia (PB1734)
22. **A. adan**, B. Ogretmen, Y. Baran. Sphingosine-1-phosphate receptor 2/gq/phospholipase c axis is a novel mechanism to overcome nilotinib resistance in t315i mutation expressing 32dcl3 murine cells. 20th. Congress of European Hematology Association, 11-14 June **2015**, Vienna, Australia (E1077)
23. **A. adan**, Y. Baran. The microarray gene profiling analysis of acute promyelocytic leukemia cells in response to fisetin and hesperetin. 20th. Congress of European Hematology Association, 11-14 June **2015**, Vienna, Australia (PB1636)
24. Yağmur Kiraz, **Aysun Adan**, Yusuf Baran. Multidrug resistance mechanisms in hematological malignencies. TWAS (The World Academy of Sciences), Frontiers in Scientific Research, 21-22 December, 2015, Bangalore, India.

## 2017

25. **Aysun Adan**, Yusuf Baran. Fisetin and hesperetin induced apoptosis and cell cycle arrest in chronic myeloid leukemia cells accompanied by modulation of cellular signaling. 11th World Congress on Polyphenols Applications: Vienna Polyphenols 2017. 21-22 June, 2017, Austria, Vienna (Oral Presentation)
26. Osman Oğuz, **Aysun Adan**. Synergistic Cytotoxic Effects of Resveratrol in Combination with Ceramide Metabolizing Enzymes in Ph + Acute Lymphoblastic Leukemia. 2<sup>nd</sup> International Conference on Natural Products for Cancer Prevention and Therapy 2017 (Kayseri/TÜRKİYE) (Oral Presentation)

## 2018

27. **Aysun Adan**, Osman Oğuz. Novel Combination Of Resveratrol And Ceramide Metabolizing Enzymes Synergistically Enhances The Anti-Proliferative And Pro-

Apoptotic Effects On Ph + Acute Lymphoblastic Leukemia. The 23rd Congress of EHA, 14-17 June 2018 (Published in abstract book)

#### **ABSTRACTS PUBLISHED/PRESENTED IN NATIONAL CONFERENCES**

##### **2010**

1. **Adan A**, Arslanoğlu A. Purification and characterization of an extracellular lipase enzyme from psychrotrophic *Pseudomonas sp.* KE38. 1st National Molecular Biology and Biotechnology Congress, 26-29 October **2010**, Antalya, Turkey (Oral)
2. **Adan A**, Arslanoğlu A. Purification and characterization of an extracellular lipase enzyme from psychrotrophic *Pseudomonas sp.* KE38. 1st Aegean Research and Development and Technology Days, 1-3 December **2010**, Izmir, Turkey (Poster)

##### **2011**

3. **Adan A**, Ünlü M, Baran Z, Pişkin Ö, Özcan M.A, Baran Y. Antiproliferative and Apoptotic Effects of Resveratrol on Chronic Lymphocytic Leukemia Cells. 37. Hematology Congress, 19-22 October **2011**, Ankara, Turkey (Poster)
4. Apohan E, **Adan A**, Pişkin Ö, Özcan M.A, Baran Y. Cytotoxic and apoptotic effects of quercetin on 232B4 chronic lymphocytic leukemia. 37. National Hematology Congress, 19-22 October 2011, Ankara, Turkey (Poster)

##### **2012**

5. **Adan A**, Yasar M, Baran Y. Antiproliferative and Apoptotic Effects of a potential anticarcinogenic agent, KL-21, on Chronic Lymphocytic Leukemia Cells. 38. Hematology Congress, 31 October-5 November **2012**, Antalya, Turkey (Poster)
6. Soner Solmaz, **Aysun Adan**, İlknur Kozanoğlu, Can Boğa, Hakan Özdoğu, Yusuf Baran. Effects of Apigenin on imatinib-sensitive and imatinib-resistant chronic myeloid leukemia cells. 38. Hematology Congress, 31 October-5 November **2012**, Antalya, Turkey (Oral)
7. **Aysun Adan**, Mustafa Yaşar, Yusuf Baran. Antiproliferative and apoptotic effects of KL-21, a potential anticarcinogenic agent, on chronic lymphocytic leukemia. IV. Multidisciplinary Cancer Research Congress, 13-16 December **2012**, Uludağ University, Bursa, Turkey (SS-10 Oral Presentation)
8. **Aysun Adan**, Soner Solmaz, İlknur Kozanoğlu, Can Boğa, Hakan Özdoğu, Yusuf Baran. Apoptotic and Cytotoxic Effects of apigenin on imatinib-sensitive and resistant

chronic myeloid leukemia cells. IV. Multidisciplinary Cancer Research Congress, 13-16 December **2012**, Uludağ University, Bursa, Turkey (SS-17 Oral Presentation)

## **2013**

- 9. Aysun Adan**, Yusuf Baran. Effects of fisetin, hesperetin ve viteksin on chronic myeloid leukemia cells. 39. National Hematology Congress. 23-27 October **2013**, Antalya, Turkey (Poster)
- 10. Aysun Adan**, Yusuf Baran. Apoptotic and cytotoxic effects of fisetin, hesperetin ve viteksin on acute premyelocytic leukemia cells. 39. National Hematology Congress, 23-27 October **2013**, Antalya, Turkey (Poster)
- 11. Aysun Adan**, Soner Solmaz, Birsu Cincin, Hakan Ozdogu, Can Boga, Bedia Cakmakoglu, Bilal Aygun, Ilknur Kozanoglu, Yusuf Baran. Changes in gene expression profiles in response to apigenin in imatinib sensitive and resistant chronic myeloid leukemia cells. 39. National Hematology Congress, 23-27 October **2013**, Antalya, Turkey (Oral)
- 12. Aydemir LY, Adan A**, Baran Y. and Yemenicioğlu A. Production of high added value protein isolate from hazel pulp in order to use in food, medicine and cosmetic industry. II International Food R&D Brokerage Event, 2013, İzmir, Turkey (Poster)
- 13. Aydemir LY, Adan A**, Baran Y. and Yemenicioğlu A. Production of high added value protein isolate from hazel pulp in order to use in food, medicine and cosmetic industry. Turkey Innovation Week, 28-30 November, 2013, İzmir, Turkey (Poster)

## **2014**

- 14. Aysun Adan**, Yusuf Baran. Effects of fisetin, hesperetin ve viteksin on chronic myeloid leukemia cells. II. Eagen Hematology Oncology Symposium, 27-29 March **2014**, İzmir (Poster)
- 15. Aysun Adan**, Yusuf Baran. Apoptotic and cytotoxic effects of fisetin, hesperetin ve viteksin on acute premyelocytic leukemia cells. II. Eagen Hematology Oncology Symposium, 27-29 March **2014**, İzmir (Poster)
- 16. Soner Solmaz, Aysun Adan**, İlknur Kozanoğlu, Hakan Ozdogu, Can Boğa, Yusuf Baran Effects of apigenin on imatinib-sensitive and resistant chronic myeloid leukemia cells. II. Eagen Hematology Oncology Symposium, 27-29 March **2014**, İzmir (Poster)
- 17. Aysun Adan**, Mustafa Yaşar, Yusuf Baran. Antiproliferative and apoptotic effects of KL-21, a potential anticarcinogenic agent, on chronic lymphocytic leukemia. II. Eagen Hematology Oncology Symposium, 27-29 March **2014**, İzmir (Poster)

18. **Aysun Adan**, Soner Solmaz, Birsu Cincin, Hakan Ozdogu, Can Boga, Bedia Cakmakoğlu, İlknur Kozanoğlu, Yusuf Baran. Changes in gene expression profiles in response to apigenin in imatinib sensitive and resistant chronic myeloid leukemia cells. II. Eagen Hematology Oncology Symposium, 27-29 March **2014**, İzmir (Poster)
19. Yusuf Baran, **Aysun Adan**. Effects of fisetin, hesperetin ve viteksin on chronic myeloid leukemia cells. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
20. Yusuf Baran, **Aysun Adan**. Apoptotic and cytotoxic effects of fisetin, hesperetin ve viteksin on acute premyelocytic leukemia cells. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
21. Yusuf Baran, Soner Solmaz, **Aysun Adan**, İlknur Kozanoğlu, Hakan Ozdogu, Can Boğa,. Effects of apigenin on imatinib-sensitive and resistant chronic myeloid leukemia cells. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
22. Yusuf Baran, **Aysun Adan**. Antiproliferative and apoptotic effects of KL-21, a potential anticarcinogenic agent, on chronic lymphocytic leukemia. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
23. Yusuf Baran, **Aysun Adan**, Soner Solmaz, Birsu Cincin, Hakan Ozdogu, Can Boga, Bedia Cakmakoğlu, İlknur Kozanoğlu. Changes in gene expression profiles in response to apigenin in imatinib sensitive and resistant chronic myeloid leukemia cells. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
24. Sakine Işık, Meral Karaman, Yusuf Baran, Müge Kıray, Şule Çağlayan-Sözmen, Hüsnü Alper Bağrıyanık, İlknur Kozanoğlu, **Aysun Adan**, Özkan Karaman, Nevin Uzuner. Effects of mesenchymal stem cells on lung and nasal histopathology and cytokin levels of allergic rhinitis mice model. Experimental Hematology Congress & EMBT Highlight 2014, 18-20 April **2014**, Kapadokya (Poster)
25. **Aysun Adan**, Besim Ogretmen, Yusuf Baran. Targeting Sphingosine Kinase-1/Sphingosine-1-Phosphate Receptor 2 Signalling Pathway To Overcome T315I Mutation in 32dcl3 Cells. 40. National Hematology Congress, 22 -25 October **2014**, Antalya, Turkey (Oral)
26. Pınar Eroğlu, Melis Kartal Yandım, **Aysun Adan**, Yağmur Kiraz, İlknur Kozanoğlu, Yusuf Baran. Identification of Potential of Mesenchymal Stem Cells to reduce

detrimental effects of Aging via molecular, histomorphological and immunohistochemistry Techniques: In vivo experimental study. 40. National Hematology Congress, 22 -25 October **2014**, Antalya, Turkey (Oral)

27. Sakine Işık, Meral Karaman, Yusuf Baran, Müge Kıray, Şule Çağlayan-Sözmen, Hüsnü Alper Bağrıyanık, İlknur Kozanoğlu, **Aysun Adan**, Özkan Karaman, Nevin Uzuner. Effects of mesenchymal stem cell on lung and nasal histopathology and cytokin levels of allergic rhinitis mice model. 40. National Hematology Congress, 22 -25 October **2014**, Antalya, Turkey (Oral)

## 2015

28. **Aysun Adan**, Besim Ogretmen, Yusuf Baran. Identification and targeting of sphingosine-1-phosphate receptor 2/PP2A signal axis to reverse nilotinib resistance. Eagen Hematology Oncology Congress, 13-15 March **2015**, Radisson Blu Hotel, İzmir ( Poster)
29. **Aysun Adan**, Yusuf Baran. Genome wide microarray based identification of genes involved in fisetin-mediated antiproliferative and apoptotic effects in chronic myeloid leukemia and acute myeloid leukemia cells. Eagen Hematology Oncology Congress, 13-15 March **2015**, Radisson Blu Hotel, İzmir (Poster)
30. **Aysun Adan**, Yusuf Baran. Identification of altered genes and networks in hesperetin-treated chronic myeloid leukemia and acute myeloid leukemia cells by whole genome microarray analysis. Eagen Hematology Oncology Congress, 13-15 March **2015**, Radisson Blu Hotel, İzmir (Poster)
31. **Aysun Adan**, Yusuf Baran. Whole-genome microarray analysis to identify signaling pathways involved in hesperetin-mediated apoptosis in chronic myeloid and acute myeloid leukemia cells. II. Experimental Hematology Congress with International Participation, 17-19 April, **2015**, Hilton, Kayseri (Oral)
32. **Aysun Adan**, Yusuf Baran. Identification of genes and genetic networks modulated by fisetin in chronic myeloid and acute myeloid leukemia cells by whole-genome microarray analysis. II. Experimental Hematology Congress with International Participation, 17-19 April, **2015**, Hilton, Kayseri (Poster)

## 2016

33. **Aysun Adan**, Yağmur kiraz, Yusuf Baran. Viteksin'in kronik myeloid lösemi ve akut premyelositik lösemideki terapötik potansiyeli. 2. Ege Hematoloji Onkoloji Kongresi, 18-20 Mart **2016**, Radisson Blu Hotel, İzmir (Poster)

## PROJECTS

<b>POSITION AND DATE</b>	<b>PROJECT TITLE</b>	<b>FOUNDATION</b>
PI 2016-2018	Therapeutic Potential of Resveratrol and The Role of Ceramide Metabolism in Resveratrol-Triggered Apoptosis in Ph+ Acute Lymphoblastic Leukemia	TÜBİTAK-3001
PI 2016-2017	Therapeutic Potential of Resveratrol and The Role of Ceramide Metabolism in Resveratrol-Triggered Apoptosis in Ph+ Acute Lymphoblastic Leukemia	ABDULLAH GUL UNIVERSITY-BAP
Asistant Researcher 2015-2016	A Novel Treatment Strategy in Ph+ Acute Lymphoblastic Leukemia; Targeting Sphingosine Kinase Pathway	ECZACIBASI HOLDİNG
Researcher 2015-2017	A Novel Treatment Strategy in Ph+ Acute Lymphoblastic Leukemia; Targeting Sphingosine Kinase Pathway	ABDULLAH GUL UNIVERSITY-BAP
Asistant Researcher 2012-2014	The roles of Mesenchymal Stem Cells on Experimental Allergic Rinit Therapy	DOKUZ EYLUL UNIVERSITY
Asistant Researcher 2012-2013	Effects of Nilotinib on Endothelial Cell Function	DOKUZ EYLUL UNIVERSITY
Asistant Researcher 2012-2013	Genome Wide Expression Levels of mRNA and miRNA in Response to anti-STAT5A in Parental and Imatinib Resistant Human K562 Chronic Myeloid Leukemia Cells	EGE UNIVERSITY
Asistant Researcher (Master Thesis)	Purification and Biochemical Characterization of An Extracellular Lipase From Psychrotolerant Pseudomonas Fluorescens KE38	THE STATE PLANNING AGENCY OF TURKEY
Asistant Researcher 2011-2012	Apoptotic Effects of CAPE and Gossypol on Chronic Lymphocytic Leukemia Cells	TURKISH SOCIETY OF HEMATOLOGY



## SEMINARS & CONFERENCES

### 2010

- **Adan A**, Arslanoğlu A. Purification and characterization of an extracellular lipase enzyme from psychrotrophic *Pseudomonas sp.* KE38. 1st National Molecular Biology and Biotechnology Congress, 26-29 October **2010**, Antalya, Turkey (Oral)

### 2012

- **Aysun Adan**, Mustafa Yaşar, Yusuf Baran. Antiproliferative and apoptotic effects of KL-21, a potential anticarcinogenic agent, on chronic lymphocytic leukemia. IV. Multidisciplinary Cancer Research Congress, 13-16 December **2012**, Uludağ University, Bursa, Turkey (SS-11 Oral Presentation)
- **Aysun Adan**, Soner Solmaz, İlknur Kozanoğlu, Can Boğa, Hakan Özdoğu, Yusuf Baran. Apoptotic and Cytotoxic Effects of apigenin on imatinib-sensitive and resistant chronic myeloid leukemia cells. IV. Multidisciplinary Cancer Research Congress, 13-16 December **2012**, Uludağ University, Bursa, Turkey (SS-18 Oral Presentation)

### 2013

- International workshop of stem cell culture principles and perspectives in medical biotechnology, Genome and Stem Cell Center, Erciyes University, Kayseri, Turkey (Invited Lecturer).
- **Aysun Adan**, Soner Solmaz, Birsu Cincin, Hakan Ozdogu, Can Boga, Bedia Cakmakoğlu, Bilal Aygun, İlknur Kozanoglu, Yusuf Baran. Changes in gene expression profiles in response to apigenin in imatinib sensitive and resistant chronic myeloid leukemia cells. 39. National Hematology Congress, 23-27 October **2013**, Antalya, Turkey (Oral)

### 2014

- **Aysun Adan**, Besim Ogretmen, Yusuf Baran. Targeting Sphingosine Kinase-1/Sphingosine-1-Phosphate Receptor 2 Signalling Pathway To Overcome T315I Mutation in 32dc13 Cells. 40. National Hematology Congress, 22 -25 October **2014**, Antalya, Turkey (Oral)
- Pınar Eroğlu, Melis Kartal Yandım, **Aysun Adan**, Yağmur Kiraz, İlknur Kozanoğlu, Yusuf Baran. Identification of Potential of Mesenchymal Stem Cells to reduce detrimental effects of Aging via molecular, histomorphological and

immunohistochemistry Techniques: In vivo experimental study. 40. National Hematology Congress, 22 -25 October **2014**, Antalya, Turkey (Oral)

## **2015**

- **Aysun Adan**, Yusuf Baran. Whole-genome microarray analysis to identify signaling pathways involved in hesperetin-mediated apoptosis in chronic myeloid and acute myeloid leukemia cells. II. Experimental Hematology Congress with International Participation, 17-19 April, **2015**, Hilton, Kayseri (Oral)

## **2016**

- **Aysun Adan**. Science of today and future: Molecular Biology and Genetics. I. Molecular Biology and Genetics Symposium in Current Topics, Abdullah Gul University, Faculty of Science and Nature, Turkey, 23-24 January **2016** (Oral)
- **Aysun Adan**. Genetically modified Organisms: Friend or Enemy?. I. Molecular Biology and Genetics Symposium in Current Topics, Abdullah Gul University, Faculty of Science and Nature, Turkey, 23-24 January **2016** (Oral)
- **Aysun Adan**. Anticarcinogenic potential of flavonoids and their mechanisms of action in leukemia. I. Life Sciences Symposium, Abdullah Gul University, Faculty of Science and Nature, Turkey, 23-24 February **2016** (Oral)
- **Aysun Adan**. Leukemia Stem Cell Biology. III. Experimental Hematology Congress with International Participation, Kayseri/Hilton, 5-8 May **2016** (Invited)

## **2017**

- **Aysun Adan**. Overcoming nilotinib resistance by specific inhibition of sphingosine-1-phosphate receptor 2/gq/phospholipase c axis in chronic myeloid leukemia. II. Life Sciences Symposium, Abdullah Gul University, Faculty of Science and Nature, Kayseri, 23-25 February **2017** (Invited)
- **Aysun Adan**. CLL Genetics and Signaling Pathways. Experimental Hematology Congress with International Participation. 28-30 April **2017**, Gaziantep, Turkey, (Invited)

## **ORGANIZED WORKSHOPS/MEETINGS**

1. I. Workshop For Basic Cell Culture And Cell Death Analysis Techniques, Izmir, Turkey, 06-08 June **2012**, Cell Death Research Society, Organizing committee member.

2. I. Cell Death Research Methods Course, Izmir, Turkey, 24-25 October **2011**, Organizing Committee Member.
3. I. Molecular Biology and Genetics Symposium in Current Topics, Abdullah Gul University, Faculty of Science and Nature, Turkey, 23-24 January **2016**, Organizing and Scientific committee member
4. I. Life Sciences Symposium, Abdullah Gul University, Faculty of Science and Nature, Turkey, 23-24 February **2016**, Organizing committee member
5. II. Life Sciences Symposium, Abdullah Gul University, Faculty of Science and Nature, Kayseri, 23-25 February **2017**, Organizing committee member
6. International DNA Day and Genome Congress, 24-28 April **2017**, Ahi Evran University, Kırşehir, Turkey, Member of International Scientific Committee

#### **EDITOR/REVIEWER/ REFEREE IN PEER JOURNALS**

- Tumor Biology
- Turkish Journal of Biology
- Data in Brief
- Biomarkers
- PeerJ
- Turkish Journal of Hematology
- Oncotarget
- Molecular Biosystems
- International Journal of Cancer
- MedChemComm
- **Scientific Journal of Blood Disorders** (Editorial board)
- **Lectio Scientific** (Editorial board)

#### **MEMBERSHIPS**

- European Hematology Association (EHA)
- European Association for Cancer Research (EACR)
- Society of Molecular Cancer Research (MOKAD)
- Turkish Society of Biochemistry (TBD)
- Turkish Society of Hematology