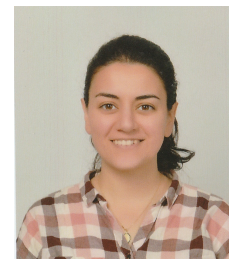


Emel Başak GENCER AKÇOK



Date of birth : 20.05.1986
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STRENGTHS

- Developing relationships, providing support
- Decision making with others, solving problems
- Highly motivated and a quick learner with strong analytical capabilities

EDUCATION

2011 - 2015 **École Polytechnique Fédérale de Lausanne (EPFL), SWITZERLAND**
PhD. Biotechnology and Bioengineering
2008 – 2010 **Izmir Institute of Technology (IYTE), Izmir, TURKEY**
MSc. Molecular Biology and Genetics
2004 - 2008 **Ege University, Faculty of Science, Izmir, TURKEY**
BSc. Biochemistry Majored in Biotechnology

PROFESSIONAL EXPERIENCE

2011 – 2015 **Research Assistant, École Polytechnique Fédérale de Lausanne**
Ph.D. Thesis, Functional perturbation of the GAB2 multiprotein complex by high affinity SH2 binding monoclonal antibodies in chronic myeloid leukemia
2008-2011 **Research Assistant, Izmir Institute of Technology**
M.Sc. Thesis, Increasing chemosensitivity of chronic myeloid leukemia cells to dasatinib by targeting bioactive sphingolipids

PUBLICATIONS

- 1) Sha F*, Gencer EB*, Georgeon S, Koide A, Yasui N, Koide S, Hantschel O. (2013) Dissection of the BCR-ABL signaling network using highly specific monoclonal antibody inhibitors to the SHP2 SH2 domains. PNAS 110(37):14924-14929
- 2) Lamontanara AJ, Gencer EB, Kuzyk O, Hantschel O. (2013) Mechanisms of resistance to BCR-ABL and other kinase inhibitors. Biochimica et Biophysica Acta 1834: 1449-1459.
- 3) Camgoz A, Gencer EB, Ural AU, Baran Y. (2013) Mechanisms responsible for nilotinib resistance in human chronic myeloid leukemia cells and reversal of resistance, Leukemia and Lymphoma, 54(6): 1279-1287
- 4) Camgoz A, Gencer EB, Ural AU, Avcu F, Baran Y. (2011) Roles of ceramide synthase and ceramide clearance genes in nilotinib-induced cell death in chronic myeloid leukemia cells. Leukemia and Lymphoma 52(8):1574-1584.
- 5) Gencer EB, Ural AU, Avcu F, Baran Y. (2011) A novel mechanism of dasatinib-induced apoptosis in chronic myeloid leukemia; ceramide synthase and ceramide clearance genes. Annals of Hematology 90(11):1265-1275.

PROFESSIONAL SKILLS

Cell culture: Mammalian cell culture, bacterial culture, proliferation assay, Apoptosis detection assay, plasmid transfection, FACS analysis

Molecular biology: Cloning (conventional and Gateway system), site-directed mutagenesis, sequencing, quantitative PCR

Biochemistry: Western Blot, immunoprecipitation, Gel stainings (coomassie and silver staining), tandem affinity purifications from large-scale cell cultures

Viral work: Retro- and lentivirus production and concentration, P2 work environment, transduction of human cells with virus (generation of stable cell lines)

TEACHING SKILLS

General Biology Laboratory as Research Assistant, IYTE (2008-2009)

Biochemistry I Laboratory as Research Assistant, IYTE (2009-2010)

Molecular Biology and Genetics as Research Assistant, IYTE (2009-2010)

Biological Chemistry 3, EPFL (2011-2015)

COMPUTER SKILLS

- Basic Computer (MS Office Applications- Word, Excel, Powerpoint), Illustrator, Photoshop

LANGUAGES

- English (fluent), French (Niveau B1), German (beginner), Turkish (native)

AWARDS

- Young Participant of 2009 by Turkish Society of Hematology

- Young Participant of 2010 by Turkish Society of Hematology

SEMINARS PRESENTATIONS

In International meetings

- 1) Fern Sha, Emel Basak Gencer, Sandrine Georgeon, Akiko Koide, Norihisa Yasui, Shohei Koide and Oliver Hantschel, Dissection of the BCR-ABL signaling network using highly specific monobody inhibitors to the SHP2 SH2 domains, 2nd NIBR EPFL UNIL Science Day, 8 December 2014, Basel, Switzerland.
- 2) Fern Sha, Emel Basak Gencer, Sandrine Georgeon, Akiko Koide, Norihisa Yasui, Shohei Koide and Oliver Hantschel. Dissection of the BCR-ABL signaling network using highly specific inhibitors to the SHP2 SH2 domains. FASEB SRC conference on Tyrosine Kinase Signaling in Cancer, Disease, and Development, 21-26 July 2013, Niagara Falls, USA.
- 3) Sha, Fern, Gencer, Emel Basak, Georgeon, Sandrine, Koide, Akiko, Yasuia, Norihisa, Koide, Shohei, Hantschel, Oliver, Dissection of the BCR-ABL signaling network using highly specific monobody inhibitors to the SHP2 SH2 domains, 2nd Faculty & Staff Retreat of the Lausanne Cancer Research Community 29-30 October 2013, Lausanne, Switzerland. **(Oral presentation)**
- 4) Gencer, Emel Basak, Sha, Fern, Koide, Shohei, Hantschel, Oliver. Functional perturbation of the Gab2 multiprotein complex by high-affinity SH2-binding monobodies in chronic myelogenous leukemia, 1st Faculty & Staff Retreat of the Lausanne Cancer Research Community 6-7 November 2012, Montreux, Switzerland. **(Oral presentation)**
- 5) Emel Basak Gencer, Fern Sha, Giulio Superti-Furga, Shohei Koide and Oliver Hantschel. Functional perturbation of the Gab2 multiprotein complex by high-affinity SH2-binding monobodies in Chronic Myelogenous Leukemia FEBS/EACR Advanced lecture course, Molecular Mechanisms in Signal Transduction and Cancer, 16-24 August 2011, Spetses, Greece.
- 6) Baran Y, Bassoy EY, Cakir Z, Camgoz A, Gencer EB, Kartal M, Can G, Ekiz HA, Gucluler G. Therapeutic Potential of Targeting Sphingolipid Signaling Pathways in Various Types of Cancer, 21st Meeting of the European Association for Cancer Research., 26-29 June 2010, Oslo, Norway.
- 7) Gencer Emel Başak, Ural Ali Uğur, Avcu Ferit, Baran Yusuf. Nilotinib induces apoptosis through increasing de novo generation or accumulation of ceramides in human K562 and Meg-01 chronic myeloid leukemia cells. FEBS Advanced Course on Lipid Signalling and Diseases Congress, 9-15 September 2009, Ortona, Italy. **(Oral presentation)**
- 8) Bassoy EY, Gencer EB, Baran Y. Docetaxel And Ceramide Analog, C-8 Ceramide, Induces Apoptosis Synergistically In Human PC-3 Prostate Cancer Cells. 8th Balkan Meeting on Human Genetics, 14-17 May 2009, Dubrovnik, Croatia.
- 9) Baran Yusuf, Gencer Emel Başak, Ural Ali Uğur, Avcu Ferit. Accumulation Of Apoptotic Ceramides Increased Apoptotic Effects Of Nilotinib In Philadelphia Positive Meg- 01 Cells Synergistically. 14th Congress of European Hematology Association, 04-07 June 2009, Berlin, Germany.
- 10) Gencer Emel Başak, Ural Ali Uğur, Avcu Ferit, Baran Yusuf. Targeting Ceramide Metabolism Increased Sensitivity Of Philadelphia Positif Chronic Megacaryoblastic Leukemia Cells To Dasatinib. 14th Congress of European Hematology Association, 04-07 June 2009, Berlin, Germany.
- 11) Baran Yusuf, Gencer Emel Başak, Ural Ali Uğur, Avcu Ferit. Increasing De Novo Synthesis Of Ceramides Increased Nilotinib Induced Apoptosis In Human Meg-01 Chronic Megacaryoblastic Cells. 14th Congress of European Hematology Association, 04-07 June 2009, Berlin, Germany.

In National meetings

- 1) Yusuf Baran, Levent Yurdaer Aydemir, Emel Başak Gencer, Melis Kartal, Ahmet Yemencioğlu. Mercimek Protein Ekstraktının Akut Miyeloid Lösemi Hücreleri Üzerine Etkileri. IV. Multidisipliner Kanser Araştırma Kongresi, 13-16 Aralık 2012, Bursa, Türkiye.
- 2) Yusuf Baran, Levent Yurdaer Aydemir, Emel Başak Gencer, Melis Kartal, Ahmet Yemencioğlu. Mercimek Protein Ekstraktının Akut Miyeloid Lösemi Hücreleri Üzerine Etkileri. 38. Ulusal Hematoloji Kongresi, 31 Ekim-3 Kasım 2012, Antalya, Türkiye.
- 3) Yusuf Baran, Aylin Camgöz, Emel Başak Gencer, Ali Uğur Ural, Ferit Avcu, Bcr/Abl Onkogeninin Bilinen Tek Regülatör Mekanizması Olan Sfingozin Kinaz-1 Ve Glukozil Seramid Sentaz Genlerinin Hedeflenerek Kronik Miyeloid Lösemi'de Nilotinib Dirençliliğinin Geri Çevrilmesi. 37. Ulusal Hematoloji Kongresi, 19-21 Ekim 2011, Ankara, Türkiye.
- 4) Aylin Camgöz, Emel Başak Gencer, Ali Uğur Ural, Ferit Avcu, Yusuf Baran, Bcr/Abl Pozitif Kronik Miyeloid Lösemi Hücrelerinde Nilotinibe Karşı Direnç Geliştirilmesi Ve Olası Direnç Mekanizmalarının Araştırılması. 36. Ulusal Hematoloji Kongresi, 03-06 Kasım 2010, Antalya, Türkiye.
- 5) Emel Başak Gencer, Gözde Güçlüler, Çoşkun Öztekin, Yusuf Baran. Sunitinibin U266 Multipl Miyelom Hücreleri Üzerine Apoptotik Etkileri. 36. Ulusal Hematoloji Kongresi, 03-06 Kasım 2010, Antalya, Türkiye.
- 6) Emel Başak Gencer, Ali Uğur Ural, Ferit Avcu, Yusuf Baran. BCR/ABL pozitif K562 ve MEG-01 hücrelerinde seramid metabolizmasının apoptotik seramid birikimini tetikleyecek şekilde hedeflenmesi ile dasatinibin apoptotik etkilerinin artırılması. 35. Ulusal Hematoloji Kongresi, 7-10 Ekim 2009, Antalya, Türkiye.
- 7) Yusuf Baran, Emel Başak Gencer, Aylin Camgöz, Ali Uğur Ural, Ferit Avcu. K562 hücrelerinde nilotinib-aracılı apoptozda seramid metabolizması genlerinin rolü. 35. Ulusal Hematoloji Kongresi, 7-10 Ekim 2009, Antalya, Türkiye.
- 8) Yusuf Baran, Emel Başak Gencer, Aylin Camgöz, Ali Uğur Ural, Ferit Avcu. Nilotinibin MEG-01 hücrelerinde tetiklediği hücre ölümünde yeni bir mekanizma; apoptotik lass genlerinin indüklenmesi ve antiapoptotik sfingozin kinaz-1 geninin baskılanması. 35. Ulusal Hematoloji Kongresi, 7-10 Ekim 2009, Antalya, Türkiye.
- 9) Emel Basak GENCER, Umut Mengüllüoğlu, Ferhat Can Özkaya, Cagri Altug, Mustafa Kemal Sezgintürk, Erhan Dinckaya. Ebegümeçi (Malva sylvestris) Bitkisinden Kısmi Saflastirmayla Elde Edilen Sülfid Oksidaz Enzimi ile Sülfid Tayinine Yönelik Biyosensör Geliştirilmesi, 23. Ulusal Kimya Kongresi, 16-20 Haziran 2009, Sivas, Türkiye.