

Assoc. Prof. Selçuk SÖZER TOKDEMİR

Personal Information

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Education Information

Doctorate, University Of Kentucky, Medicine, United States Of America 1999 - 2004

Under Graduate, İstanbul Üniversitesi, Cerrahpaşa Tıp Fakültesi, Turkey 1991 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, CHARACTERIZATION AND FUNCTIONAL ANALYSIS OF A MURINE MODEL FOR CHRONIC MYELOID LEUKEMIA STEM CELLS, University of Kentucky, Graduate School, Medicine, 2004

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Internal Medicine Sciences, Medical Genetics

Academic Titles / Tasks

Associate Professor, Istanbul University, Aziz Sancar Institute Of Experimental Medicine, Department Of Genetics, 2019 - Continues

Assistant Professor, Istanbul University, Aziz Sancar Institute Of Experimental Medicine, Department Of Genetics, 2010 - 2018

Assistant Professor, New York University, Mount Sinai School Of Medicine, Hematology, 2010 - 2018

Assistant Professor, New York University, Mount Sinai School Of Medicine, Hematology, 2009 - 2010

Advising Theses

Sözer Tokdemir S., Polistemia Vera 'da Sitokin Yolağının Etkisi, Post Graduate, C.Altunay(Student), 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **In vitro investigation of growth factors including MGF and IGF-1 in neural stem cell activation, proliferation, and migration.**

Tunç B. S. , Toprak F., Toprak S. F. , Sozer S.

Brain research, pp.147366, 2021 (Journal Indexed in SCI Expanded)

- II. **Extracellular genetic materials and their application in clinical practice.**
Koçana C. Ç. , Toprak S. F. , Sözer S.
Cancer genetics, pp.48-63, 2020 (Journal Indexed in SCI Expanded)
- III. **Assessment of Fetal Rhesus D and Gender with Cell-Free DNA and Exosomes from Maternal Blood.**
Yaşa B., Şahin O., Öcüt E., Seven M., Sözer S.
Reproductive sciences (Thousand Oaks, Calif.), 2020 (Journal Indexed in SCI Expanded)
- IV. **In situ detection of JAK2V617F within viable hematopoietic cells using gold nanoparticle technology**
Sozer S., Aptullahoglu E., Shivarov V., Yavuz A.
INTERNATIONAL JOURNAL OF LABORATORY HEMATOLOGY, vol.41, 2019 (Journal Indexed in SCI)
- V. **In-Cell Detection By Flow Cytometry of JAK2 V617F Mutation Using Gold Nanoflares**
Aptullahoglu E., Uslu I., Yavuz A. S. , SHIVAROV V., Sozer S.
BLOOD, vol.124, no.21, 2014 (Journal Indexed in SCI)
- VI. **Human CD34(+) cells are capable of generating normal and JAK2V617F positive endothelial like cells in vivo**
Sozer S., ISHII T., FIEL M. I. , WANG J., WANG X., ZHANG W., GODBOLD J., XU M., HOFFMAN R.
BLOOD CELLS MOLECULES AND DISEASES, vol.43, no.3, pp.304-312, 2009 (Journal Indexed in SCI)
- VII. **Correction of the Abnormal Trafficking of Primary Myelofibrosis CD34(+) Cells by Treatment with Chromatin-Modifying Agents**
WANG X., ZHANG W., ISHII T., Sozer S., WANG J., XU M., HOFFMAN R.
CANCER RESEARCH, vol.69, no.19, pp.7612-7618, 2009 (Journal Indexed in SCI)
- VIII. **Involvement of mast cells by the malignant process in patients with Philadelphia chromosome negative myeloproliferative neoplasms**
WANG J., ISHII T., ZHANG W., Sozer S., DAI Y., MASCARENHAS J., NAJFELD V., ZHAO Z. J. , HOFFMAN R., WISCH N., et al.
LEUKEMIA, vol.23, pp.1577-1586, 2009 (Journal Indexed in SCI)
- IX. **"Correction of the abnormal trafficking of primary myelofibrosis CD34+ cells by treatment with chromatin-modifying agents."Correction of the abnormal trafficking of primary myelofibrosis CD34+ cells by treatment with chromatin-modifying agents."**
WANG X., ZHANG W., ISHII T., SÖZER TOKDEMİR S., WANG J., XU M., HOFFMAN R.
CANCER RESEARCH, vol.vol.69, no.19, pp.7612-7618, 2009 (Journal Indexed in SSCI)
- X. **The presence of JAK2V617F mutation in the liver endothelial cells of patients with Budd-Chiari syndrome**
Sozer S., FIEL M. I. , SCHIANO T., XU M., MASCARENHAS J., HOFFMAN R.
BLOOD, vol.113, no.21, pp.5246-5249, 2009 (Journal Indexed in SCI)
- XI. **Circulating angiogenic monocyte progenitor cells are reduced in JAK2V617F high allele burden myeloproliferative disorders**
Sozer S., WANG X., ZHANG W., FIEL M. I. , ISHII T., WANG J., WISCH N., XU M., HOFFMAN R.
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- XII. **T cells from patients with polycythemia vera elaborate growth factors which contribute to endogenous erythroid and megakaryocyte colony formation**
ISHII T., ZHAO Y., SHI J., Sozer S., HOFFMAN R., XU M.
LEUKEMIA, vol.21, no.12, pp.2433-2441, 2007 (Journal Indexed in SCI)
- XIII. **Behavior of CD34+ cells isolated from patients with polycythemia vera in NOD/SCID mice**
Ishii T., Zhao Y., Sozer S., Shi J., Zhang W., Hoffman R., Xu M.
Experimental Hematology, vol.35, pp.1633-1640, 2007 (Journal Indexed in SCI)
- XIV. **Leukemia stem cells in a genetically defined murine model of blast-crisis CML**
NEERING S. J. , BUSHNELL T., Sozer S., ASHTON J., ROSSI R. M. , WANG P., BELL D. R. , HEINRICH D., BOTTARO A., JORDAN C. T.
BLOOD, vol.110, no.7, pp.2578-2585, 2007 (Journal Indexed in SCI)

- XV. **Effects of chromatin-modifying agents on CD34(+) cells from patients with idiopathic myelofibrosis**
SHI J., ZHAO Y., ISHII T., HU W., Sozer S., ZHANG W., BRUNO E., LINDGREN V., XU M., HOFFMAN R.
CANCER RESEARCH, vol.67, no.13, pp.6417-6424, 2007 (Journal Indexed in SCI)
- XVI. **Haematopoietic cell lineage distribution of MPLW515L/K mutations in patients with idiopathic myelofibrosis**
HU W., ZHAO Y., ISHII T., Sozer S., SHI J., ZHANG W., BRUNO E., HOFFMAN R., XU M.
BRITISH JOURNAL OF HAEMATOLOGY, vol.137, no.4, pp.378-379, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Hücre-dışı Fetal DNA'dan Gerçek-zamanlı PZR ile Fetal Rhesus D Tespitinin Maliyet Değerlendirmesi**
Sözer Tokdemir S.
Experimed, vol.10, no.3, pp.124-127, 2020 (National Refreed University Journal)
- II. **Miyeloproliferatif Neoplazilerde JAK2V617F Mutasyonunun Endotel Hüresine Etkisi ve SOCS1-4 Gen Anlatımlarına Yansıması**
Sözer Tokdemir S.
Sağlık Bilimlerinde İleri Araştırmalar Dergisi, vol.3, pp.135-147, 2020 (National Refreed University Journal)
- III. **Polisitemia Vera'da CXCL9-CXCR3 Sitokin Sinyal Yolağının Etkisi**
Altunay C., Yavuz A. S. , Sözer Tokdemir S.
Experimed, vol.8, no.3, pp.84-92, 2019 (National Refreed University Journal)
- IV. **cell free DNA and Genometastasis**
Koçana Ç., Toprak S., Yasa B., Hekimoğlu H., Sözer Tokdemir S.
Experimed, vol.9, pp.69-74, 2019 (National Refreed University Journal)

Books & Book Chapters

- I. **Laser Capture Microdissection**
SÖZER TOKDEMİR S., HOFFMAN R.
in: Laser Capture Microdissection, Murray,J, Editor, Humana Press, Inc. , California, pp.405-415, 2011
- II. **Hematopoietic Stem Cell and Regenerative Medicine**
SÖZER TOKDEMİR S., HOFFMAN R.
in: Translational Approaches in Tissue Engineering and Regenerative Medicine, Jeremy J. Mao, Editor, Artech House , New York, pp.49-68, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **Hypoxia induced HIF1 α and NOS3 Expression Profiles in JAK2V617F Positive Cancer Stem Cells of Polycythemia Vera**
Sözer Tokdemir S.
13th Balkan Congress of Human Genetics, Edirne, Turkey, 17 - 21 April 2019, pp.120
- II. **Miyeloproliferatif Neoplazilerde MYC Gen Anlatımı**
SÖZER TOKDEMİR S.
41. Ulusal Hematoloji Kongres ve Balkan Hematoloji Günü", Antalya, Turkey, 21 - 24 October 2016, pp.1
- III. **Evaluation of Micro particle Production by JAK2V617F positive the Endothelial Cells**
SÖZER TOKDEMİR S.
European Society of Human Genetics, Barselona, Spain, 21 - 24 May 2016, pp.1
- IV. **The expression analysis of F2R gene in JAK2V617F mutation positive Polycythemia Vera (PV)**
SÖZER TOKDEMİR S.

European Society of Human Genetics, Barselona, Spain, 21 - 24 May 2016, pp.1

V. SUCCESSFUL TRANSFECTION OF JAK2V617F LENTIVIRUS

Sözer Tokdemir S.

5. International Congress on Leukemia Lymphoma and Myeloma, İstanbul, Turkey, 21 - 24 May 2015, pp.148-149

VI. The JAK2V617F Mutation Is Present in the Liver Endothelial Cells of Patients with Budd-Chiari Syndrome.

Sozer S., FIEL I. M. , SCHIANO T., FELLER F., MASCARENHAS J., HOFFMAN R.

50th Annual Meeting of the American-Society-of-Hematology, San-Francisco, Costa Rica, 6 - 09 December 2008, vol.112, pp.965

VII. Two classes of progenitor cells in patients with myeloproliferative disorders are capable of generating JAK2V617F(+)CD31(+)CD144(+) endothelial cells

Sozer S., ISHII T., ZHANG W., WANG J., XU M., HOFFMAN R.

49th Annual Meeting of the American-Society-of-Hematology, Georgia, United States Of America, 8 - 11 December 2007, vol.110

VIII. Characterization and functional analysis of a murine model for chronic myeloid leukemia stem cells

Sozer S., ECHLIN D., ROSSI R., GRIMES B., JORDAN C.

46th Annual Meeting of the American-Society-of-Hematology, California, United States Of America, 4 - 07 December 2004, vol.104

IX. Analysis of NF-kB inhibiting drugs in a mouse model of CML

Sozer S., GUZMAN M., ECHLIN D., GRIMES B., HROMOS R., JORDAN C.

32nd Annual Scientific Meeting of the International-Society-for-Experimental-Hematology, Paris, France, 5 - 08 July 2003, vol.31, pp.228

X. Leukemic stem cell analysis in a mouse model of CML blast crisis.

ECHLIN-BELL D., Sozer S., GRIMES B., SAUVAGEAU G., JORDAN C.

44th Annual Meeting of the American-Society-of-Hematology, PHILADELPHIA, PENNSYLVANIA, 6 - 10 December 2002, vol.100

Other Publications

I. Hematopoetik Kök Hücreler

SÖZER TOKDEMİR S.

Presentation, pp.1-2, 2016

II. İstanbul Üniversitesi Kök Hücre Kulübü Sempozyumu Hematopoetik Neoplazilerde Kanseri Başlatan Hücreler

SÖZER TOKDEMİR S.

Presentation, pp.5-6, 2016

Supported Projects

SÖZER TOKDEMİR S., TOPRAK S. F. , KOÇANA C. Ç. , Project Supported by Higher Education Institutions, Hücre dışı JAK2V617F pozitif genom parçasının endotel hücre üzerindeki etkileri, 2020 - Continues

GÜVEN Z. G. , BAYRAK A. E. , GEYİK F., ÇOBAN N., SÖZER TOKDEMİR S., ÜNALTUNA N., TUBITAK Project, Metabolik Sendrom ve Alzheimer hastalığı ilişkisi, 2015 - Continues

SÖZER TOKDEMİR S., KOÇANA C. Ç. , Project Supported by Higher Education Institutions, MPN Kökenli Hücre Dışı Genomik Materyallerin Farklı Hücrelere Etkisinin İncelenmesi, 2019 - 2020

SÖZER TOKDEMİR S., TOPRAK S. F. , Project Supported by Higher Education Institutions, Hücre Dışı Genom Materyallerinin Hematopoetik Kök Hücreler Üzerindeki Etkisi, 2019 - 2020

SÖZER TOKDEMİR S., USLU BIÇAK İ., TOKCAN B., Project Supported by Higher Education Institutions, Miyeloproliferatif Hastalıklarda Kanseri Başlatan Hücrelerin Karakterizasyonu Ve Fonksiyonel Analizi, 2019 - 2020

SÖZER TOKDEMİR S., HEKİMOĞLU H., Project Supported by Higher Education Institutions, JAK2V617F MUTASYONUNUN ENDOTEL HÜCRELERİ ÜZERİNDEKİ TROMBOTİK ETKİLERİNİN DEĞERLENDİRİLMESİ, 2015 - 2020

SÖZER TOKDEMİR S., YAŞA B., Project Supported by Higher Education Institutions, Maternal Kandan Fetal DNA İzolasyonu ile Rhesus D ve Cinsiyet Genotipleme, 2018 - 2019

SÖZER TOKDEMİR S., ŞOROĞLU C. V. , Project Supported by Higher Education Institutions, Hematopoietik ve Kansere Kök Hücrelerin Hipoksik Koşullardaki Fonksiyonel ve Genomik Yanıtları, 2018 - 2019

SÖZER TOKDEMİR S., Project Supported by Higher Education Institutions, Miyeloproliferatif Neoplazide PAR Yolağı Etkilerinin Gen Ekspresyon Paneli ile Tayini, 2017 - 2019

SÖZER TOKDEMİR S., ATEŞ K., Project Supported by Higher Education Institutions, HİPOKSİK VE YÜKSEK GLÜKOZLU ORTAMLARDA IGF-I ve MGF'İN NÖRAL KÖK HÜCRELERDE EKSPRESYONU VE PROLİFERASYON ÜSTÜNDEKİ ETKİLERİNİN İN VİTRO ARAŞTIRILMASI, 2015 - 2019

SÖZER TOKDEMİR S., ALTUNAY C., Project Supported by Higher Education Institutions, Polisitemia Vera'da Sitokin Sinyal Yolağının Etkisi, 2017 - 2018

SÖZER TOKDEMİR S., HEKİMOĞLU H., USLU İ., Project Supported by Higher Education Institutions, Altın Nanoflakes Kullanarak JAK2V617F Mutasyonunun Akım Ölçerinde Hücre İçi Tesbiti, 2014 - 2018

SÖZER TOKDEMİR S., AYDINTUĞ T., TUNÇ B. S. , Project Supported by Higher Education Institutions, NÖRAL KÖK HÜCRE AKTİVASYONU PROLİFERASYONU VE MİGRASYONUNDA ROLLERİ OLAN BÜYÜME FAKTÖRLERİNİN ARAŞTIRILMASI, 2016 - 2017

SÖZER TOKDEMİR S., ATEŞ K., Project Supported by Higher Education Institutions, NÖRAL KÖK HÜCRE AKTİVASYONU, PROLİFERASYONU VE MİGRASYONUNDA ROLLERİ OLAN BÜYÜME FAKTÖRLERİNİN KARŞILIKLI ETKİLEŞİMLERİNİN İN VİTRO ARAŞTIRILMASI, 2015 - 2017

SÖZER TOKDEMİR S., Project Supported by Higher Education Institutions, Endotel Hücrelerinde JAK2V617F Mutasyonunun JAK/STAT Yolağı Üzerindeki Etkileri, 2013 - 2017

SÖZER TOKDEMİR S., Other Supported Projects, JAK2V617F Mutasyonunun Endotel Hücre Fonksiyonları Üzerindeki Rolü, 2011 - 2015

Patent

SÖZER TOKDEMİR S., JAK2 V617F Mutasyonunun Altın Nanopartikül Ajanı Kullanılarak Tespit Yöntemi, Patent, CHAPTER A Human Needs, 2019

Citations

Total Citations (WOS):337

h-index (WOS):8