

Asst. Prof. SELDA AYHAN

Personal Information

Office Phone: [+90 312 305 2642](tel:+903123052642)

Fax Phone: [+90 312 305 1141](tel:+903123051141)

Email: selda.ayhan@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/selda.ayhan>

International Researcher IDs

ORCID: 0000-0002-3525-7995

Publons / Web Of Science ResearcherID: AAH-7591-2019

Yoksis Researcher ID: 284560

Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Kök Hücre Bilimleri A.B.D., Turkey 2012 - 2015

Dissertations

Doctorate, Metabolom ve transkriptom profillemesi ile insan kemik iliğinde hematopoetik niş karakterizasyonu, Hacettepe University, Sağlık Bilimleri Enstitüsü, 2015

Postgraduate, Primer Yara İyileşmesi Üzerine Embriyonik Kök Hücre ve Ovaryum Folikül Sıvısının Etkisi, Eskisehir Osmangazi University, Institute Of Health Sciences, 2007

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Çocuk Sağlığı Enstitüsü, Pediatrik Temel Bilimler A.B.D., 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **ELFN1 is a new extracellular matrix (ECM)-associated protein**
Ayhan S., Dursun A.
LIFE SCIENCES, no.Volume 352 , pp.1-13, 2024 (SCI-Expanded)
- II. **Characterization of human bone marrow niches with metabolome and transcriptome profiling**
AYHAN S., NEMUTLU E., Cetinkaya D. U., KIR S., ÖZGÜL R. K.
JOURNAL OF CELL SCIENCE, vol.134, no.6, 2021 (SCI-Expanded)
- III. **Mesenchymal stem cell application improves tendon healing via anti-apoptotic effect (Animal study)**
SELEK Ö., BULUÇ L., Muezzinoglu B., ERGÜN R. E., Ayhan S., Karaoz E.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.48, no.2, pp.187-195, 2014 (SCI-Expanded)
- IV. **Bone marrow-derived mesenchymal stem cells co-cultured with pancreatic islets display beta cell**

plasticity

Karaoz E., Ayhan S., Okcu A., Aksoy A., Bayazit G., Gurol A. O., DURUKSU G.

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.5, no.6, pp.491-500, 2011 (SCI-Expanded)

- V. **Mesenchymal stem cells improve the healing of ischemic colonic anastomoses (experimental study)**
Adas G., Arikan S., Karatepe O., Kemik O., Ayhan S., Karaoz E., Kamali G., Eryasar B., Ustek D.
LANGENBECKS ARCHIVES OF SURGERY, vol.396, no.1, pp.115-126, 2011 (SCI-Expanded)
- VI. **Pancreatic Islet Derived Stem Cells Can Express Co-stimulatory Molecules of Antigen-Presenting Cells**
Karaoz E., Okcu A., Saglam O., Genç Z., Ayhan S., Kasap M.
TRANSPLANTATION PROCEEDINGS, vol.42, pp.3663-3670, 2010 (SCI-Expanded)
- VII. **BONE MARROW DERIVED MESENCHYMAL STEM CELLS CAN EXPRESS GENES WITH KNOWN ANTI-APOPTOTIC FUNCTION AND CO-STIMULATORY MOLECULES OF ANTIGEN PRESENTING CELLS WITHOUT STIMULATION IN VITRO**
Karaoz E., Okcu A., Saglam O., Ayhan S., Gacar G., Duruksu G.
HAEMATOLOGICA, vol.95, pp.665-666, 2010 (SCI-Expanded)
- VIII. **IN VITRO DIFFRENTIATION POTENTIAL OF MESENCHYMAL STEM CELLS DERIVED FROM NATAL, WISDOM, DECIDUOUS TEETH DENTAL PULP AND HUMAN BONE MARROW: A COMPERATIVE STUDY**
Aksoy A., Ayhan S., Okcu A., Karaoz E.
HAEMATOLOGICA, vol.95, pp.444-445, 2010 (SCI-Expanded)
- IX. **IN VITRO PLURIPOTENT PROPERTIES AND CHARACTERIZATION OF UMBILICAL CORD BLOOD MESENCHYMAL STEM CELLS**
Ayhan S., Genç Z., Okcu A., Duruksu G., Aksoy A., Karaoz E.
HAEMATOLOGICA, vol.95, pp.642, 2010 (SCI-Expanded)
- X. **BONE MARROW-DERIVED MESENCHYMAL STEM CELLS CO-CULTURED WITH PANCREATIC ISLETS DISPLAY BETA-CELL PLASTICITY**
Karaoz E., Ayhan S., Okcu A., Aksoy A., Bayazit G., Gurol A., Duruksu G.
HAEMATOLOGICA-THE HEMATOLOGY JOURNAL, vol.95, pp.662, 2010 (SCI-Expanded)
- XI. **Isolation and characterization of stem cells from pancreatic islet: pluripotency, differentiation potential and ultrastructural characteristics**
Karaoz E., Ayhan S., Gacar G., Aksoy A., Duruksu G., Okcu A., Demircan P. C., Sariboyaci A. E., Kaymaz F., KASAP M.
CYTOTHERAPY, vol.12, no.3, pp.288-303, 2010 (SCI-Expanded)
- XII. **Isolation and in vitro characterisation of dental pulp stem cells from natal teeth**
Karaoz E., Dogan B. N., Aksoy A., Gacar G., Akyuz S., Ayhan S., Genc Z. S., Yuruker S., Duruksu G., Demircan P. C., et al.
HISTOCHEMISTRY AND CELL BIOLOGY, vol.133, no.1, pp.95-112, 2010 (SCI-Expanded)
- XIII. **Characterization of mesenchymal stem cells from rat bone marrow: ultrastructural properties, differentiation potential and immunophenotypic markers**
Karaoz E., Aksoy A., Ayhan S., Sariboyaci A. E., Kaymaz F., KASAP M.
HISTOCHEMISTRY AND CELL BIOLOGY, vol.132, no.5, pp.533-546, 2009 (SCI-Expanded)
- XIV. **COMPARATIVE ANALYSIS OF MESENCHYMAL STEM CELLS FROM BONE MARROW, DENTAL PULP, ADIPOSE TISSUE AND ENDOMETRIUM**
Karaoz E., Aksoy A., GENÇ Z., Ayhan S., GACAR G., Okcu A., Demircan P., Caliskan E., Sariboyaci A.
HAEMATOLOGICA, vol.94, pp.459, 2009 (SCI-Expanded)
- XV. **MAY THE C-FOS TO BECOME A NEW COMMON MARKER FOR MESENCHYMAL STEM CELLS ?**
Karaoz E., GENÇ Z., Ayhan S., Aksoy A., Okcu A., GACAR G., KASAP M.
HAEMATOLOGICA, vol.94, pp.458, 2009 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **GC MS Based Metabolomic Profiling of Human Bone Marrow**
Ayhan S., REÇBER T., ÖZKAN E., NEMUTLU E., ÖZGÜL R. K., ÇETİNKAYA F. D., KIR S.

11th International Symposium on Pharmaceutical Sciences, 9 - 12 June 2015

II. COMPARATIVE ANALYSIS OF MESENCHYMAL STEM CELLS FROM BONE MARROW, DENTAL PULP, ADIPOSE TISSUE AND ENDOMETRIUM

Karaoz E., Aksoy A., GENÇ Z., Ayhan S., GACAR G., Okcu A., Demircan P., Caliskan E., Sariboyaci A.

14th Annual Meeting of the European-Hematology-Association, Berlin, Germany, 4 - 07 June 2009, vol.94, pp.459

III. MAY THE C-FOS TO BECOME A NEW COMMON MARKER FOR MESENCHYMAL STEM CELLS ?

Karaoz E., GENÇ Z., Ayhan S., Aksoy A., Okcu A., GACAR G., KASAP M.

14th Annual Meeting of the European-Hematology-Association, Berlin, Germany, 4 - 07 June 2009, vol.94, pp.458

Supported Projects

OSKAY HALAÇLI S., ESENBOĞA S., AYHAN S., ÇAĞDAŞ AYVAZ D. N., Project Supported by Higher Education Institutions, LRBA LPS Responsive Beige Like Anchor Protein Eksikliğinde Sinyal İletim Mekanizmalarının Araştırılması, 2024 - Continues

BİRBEN E., AYHAN S., Aras Ç., Project Supported by Higher Education Institutions, Havayolu Epitel Hücrelerinde Antagomir Yüklü Eksozomlar Kullanarak Astımla İlişkili miRNAların İnhibisyonu Antagomirlerin Astımdaki Tedavi Potansiyellerinin İnVitro Koşullarda Değerlendirilmesi, 2022 - Continues

Ayhan S., TUBITAK Project, Yeni Keşif ELFN1 Proteininin Ekstrasellüler Matris İlişkili HedefProtein(ler)inin Belirlenmesi, 2023 - 2025

Ayhan S., DURSUN A., TUBITAK Project, Elucidating the Role of the ELFN1 Gene in the Matrisome Physiology and Joint Laxity Pathology, 2022 - 2022

Ayhan S., Özgül R. K., TUBITAK Project, Kistik Fibrozisde Solunum Yolu Epitel Hücreleri Üzerine Eksozomların Rolünün Araştırılması, 2015 - 2018

Özgül R. K., TUBITAK Project, Metabolom ve Transkriptom Profillemesi ile İnsan Kemik İliğinde Hematopoetik Niş Karakterizasyonu, 2013 - 2015

Ayhan S., Özgül R. K., Project Supported by Higher Education Institutions, Metabolom analizleri ile insan kemik ilimi hematopoetik niş karakterizasyonu, 2013 - 2014

Scientific Refereeing

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, September 2016

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, January 2016

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, SCI Journal, December 2015

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, SCI Journal, January 2015

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, January 2015

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, SCI Journal, November 2011

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, SCI Journal, March 2011

Metrics

Publication: 18

Citation (WoS): 434

Citation (Scopus): 469

H-Index (WoS): 6

H-Index (Scopus): 6

Scholarships

Awards

Ayhan S., İstanbul Eğitim Araştırma Hastanesi 50. Kuruluş Yılı Ulusal Bilimsel Etkinlikleri En İyi Makale Yarışması Birincisi , İstanbul Eğitim Araştırma Hastanesi, September 2011

Ayhan S., Türk Diyabet Vakfı Diabetes Mellitus 2010 Yılı En İyi Bilimsel Yayın Ödülü İkincisi , Türk Diyabet Vakfı , January 2010

Ayhan S., Türk Diyabet Vakfı Diabetes Mellitus 2010 Yılı En İyi Bilimsel Proje Destek Ödülü Birincisi , Türk Diyabet Vakfı, January 2010

Ayhan S., Deneysel Hematoloji En İyi Bildiri Ödülü, Ulusal Hematoloji Kongresi, September 2009

Ayhan S., Genç Katılımcı Ödülü, Ulusal Hematoloji Kongresi, September 2009

Ayhan S., Türk Diyabet Vakfı Diabetes Mellitus 2009 Yılı En İyi Bilimsel Proje Destek Ödülü Birincisi , Türk Diyabet Vakfı , September 2009