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Education Information

Doctorate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji, Turkey 1999 - 2004

Postgraduate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji, Turkey 1997 - 1999

Undergraduate, Hacettepe Üniversitesi, Tıp Fakültesi, Tıp Fakültesi (Türkçe), Turkey 1987 - 1994

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kas rejenerasyonunu sağlamak amacı ile makrofajlar ve adipositlerde miyojenik farklılaşma programının tetiklenmesi, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji (Dr), 2004

Postgraduate, PCR tekniği kullanımı ile DNA dizilerinde mutasyon oluşturulması (İn vitro mutagenез), Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji (YI) (Tezli), 1999

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology, Life Sciences, Molecular Biology and Genetics, Genetic Disorders, Genetic Engineering, Genomics, Protein Engineering, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014 - Continues

Associate Professor, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2007 - 2014

Assistant Professor, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2006 - 2010

Academic and Administrative Experience

Hacettepe Üniversitesi, Tıp Fakültesi, 2015 - 2016

Courses

GENOM ANALİZ YÖNTEMLERİ, Doctorate, 2016 - 2017, 2017 - 2018
TIP FAK. DÖNEM-I TIBBİ BİYOLOJİ VE GENETİK, Undergraduate, 2016 - 2017, 2017 - 2018
HÜCRE BİYOLOJİSİ, Postgraduate, 2016 - 2017, 2017 - 2018
MOLEKÜLER GENETİKTE ÇALIŞMA YÖNTEMLERİ, Postgraduate, 2017 - 2018
Genetik Kontrol Mekanizmaları, Doctorate, 2016 - 2017
Gelişimin Moleküler Biyolojisi, Doctorate, 2016 - 2017

Advising Theses

KOCAEFE Y. Ç. , Fare miyoblast hücre hattında (C2C12 hücre hattı) klf5 geni üzerinde hedefli insersiyon gerçekleştirilmesi, Postgraduate, D.AKÇAY(Student), 2015
KOCAEFE Y. Ç. , Fare miyoblast hücre hattında KLF5 geninin farklılaşma sürecine etkilerinin araştırılması, Doctorate, U.AKPULAT(Student), 2014
KOCAEFE Y. Ç. , Olgun yağ hücrelerinin rekombinant protein ifade kapasitelerinin incelenmesi, Doctorate, P.SHARAFİ(Student), 2013
KOCAEFE Y. Ç. , Kas dokusu tamirinde çözünebilir faktörlerin gen ifadesinin incelenmesi, Postgraduate, C.ÖZDEMİR(Student), 2010
KOCAEFE Y. Ç. , Kas dejenerasyonunda ve farklılaşmasında Klf5 geninin rolünün araştırılması, Doctorate, Y.YILDIZ(Student), 2010
KOCAEFE Y. Ç. , The effect of mechanical forces on adipogenic differentiation, Postgraduate, P.SHARAFİ(Student), 2008
KOCAEFE Y. Ç. , Kronik dejenerasyon sürecindeki kas dokusunda kas öncülü hücrelerin incelenmesi., Postgraduate, N.HİDAYET(Student), 2007

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

- I. **ACPA decreases non-small cell lung cancer line growth through Akt/PI3K and JNK pathways in vitro.**
Boyacioglu O., BİLGİÇ E., VARAN C., BİLENSOY E., NEMUTLU E., GÜLMEZ SEVİM D., Kocaefe C., KORKUSUZ P.
Cell death & disease, vol.12, no.1, pp.56, 2021 (Journal Indexed in SCI Expanded)
- II. **A Novel Amplification-Refractory Mutation System-PCR Strategy to Screen MT-TL1 Pathogenic Variants in Patient Repositories**
Bulduk B. K. , Kilic H. B. , Bekircan-Kurt C. E. , Haliloglu G., ERDEM ÖZDAMAR S., Topaloglu H., KOCAEFE Y. Ç.
GENETIC TESTING AND MOLECULAR BIOMARKERS, vol.24, no.3, pp.165-170, 2020 (Journal Indexed in SCI)
- III. **A single-tube multiplex qPCR assay for mitochondria DNA (mtDNA) copy number assessment**
Kilic H. B. , Bulduk B. K. , KOCAEFE Y. Ç.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.6, pp.769-777, 2019 (Journal Indexed in SCI)
- IV. **Bone marrow derived mesenchymal stem cells ameliorate inflammatory response in an in vitro model of familial hemophagocytic lymphohistiocytosis 2**
SEVİM H., KOCAEFE Y. Ç. , ONUR M. A. , Uckan-Cetinkaya D., GÜRPINAR Ö. A.
STEM CELL RESEARCH & THERAPY, vol.9, 2018 (Journal Indexed in SCI)
- V. **GENERATION OF INDUCED PLURIPOTENT STEM CELLS FROM MESENCHYMAL STEM CELLS OF OSTEOPETROSIS PATIENTS BY TWO DIFFERENT INTEGRATION-FREE METHODS UNDER FEEDER-FREE CONDITIONS**
Okur F. V. , Cevher I., Kilic E., Ozdemir C., Kocaefe C., Cetinkaya D. U.
CYTOTHERAPY, vol.20, no.5, 2018 (Journal Indexed in SCI)
- VI. **Tenotomy immobilization as a model to investigate skeletal muscle fibrosis (with emphasis on Secreted frizzled-related protein 2)**

AKPULAT U., ONBAŞILAR İ., KOCAEFE Y. Ç.

PHYSIOLOGICAL GENOMICS, vol.48, no.6, pp.397-408, 2016 (Journal Indexed in SCI)

VII. **In Vitro Comparison of Adipokine Export Signals**

Sharafi P., KOCAEFE Y. Ç.

PROTEIN AND PEPTIDE LETTERS, vol.23, no.6, pp.530-536, 2016 (Journal Indexed in SCI)

VIII. **Effect of Zoledronic Acid on Rats' Tissue SDF-1 Expression**

Arik Z., KILIÇKAP S., AKPULAT U., Nahit Sendur M. A. , KOCAEFE Y. Ç. , ERMAN M.

UHOD-ULUSLARARASI HEMATOLOJİ-ONKOLOJİ DERGİSİ, vol.26, no.4, pp.215-219, 2016 (Journal Indexed in SCI)

IX. **AEBP1/ACLP is upregulated in differentiation, injury repair and fibrotic degeneration of skeletal muscle**

Özdemir C., AKPULAT U., Akçay D., ONBAŞILAR İ., KOCAEFE Y. Ç.

JOURNAL OF MUSCLE RESEARCH AND CELL MOTILITY, vol.36, no.6, pp.549-550, 2015 (Journal Indexed in SCI Expanded)

X. **Generation of targeted insertion in the Klf5 gene of mouse myoblasts (C2C12 cells) using CRISPR/Cas9 system**

Akçay D., AKPULAT U., KOCAEFE Y. Ç.

JOURNAL OF MUSCLE RESEARCH AND CELL MOTILITY, vol.36, no.6, pp.547-548, 2015 (Journal Indexed in SCI Expanded)

XI. **Periostin is temporally expressed as an extracellular matrix component in skeletal muscle regeneration and differentiation**

OZDEMİR C., Akpulat U., SHARAFI P., YILDIZ Y., ONBAŞILAR İ., Kocaefe C.

GENE, vol.553, no.2, pp.130-139, 2014 (Journal Indexed in SCI)

XII. **Coronin 1A inhibits neurite outgrowth in PC12 cells**

TERZİ Y. K. , KOCAEFE Y. Ç. , AYTER S.

NEUROSCIENCE LETTERS, vol.582, pp.38-42, 2014 (Journal Indexed in SCI)

XIII. **Novel mutations of the MLC1 gene in Turkish patients**

YÜZBAŞIOĞLU A., TOPÇU M., KOCAEFE Y. Ç. , ÖZGÜÇ M.

EUROPEAN JOURNAL OF MEDICAL GENETICS, vol.54, no.3, pp.281-283, 2011 (Journal Indexed in SCI)

XIV. **Reprogramming of Human Umbilical Cord Stromal Mesenchymal Stem Cells for Myogenic Differentiation and Muscle Repair**

Kocaefe C., Balci D., Hayta B. B. , Can A.

STEM CELL REVIEWS AND REPORTS, vol.6, no.4, pp.512-522, 2010 (Journal Indexed in SCI)

XV. **Assessment of housekeeping genes for use in normalization of real time PCR in skeletal muscle with chronic degenerative changes**

Yuzbasioglu A., Onbasilar I., Kocaefe C., Ozguc M.

EXPERIMENTAL AND MOLECULAR PATHOLOGY, vol.88, no.2, pp.326-329, 2010 (Journal Indexed in SCI)

XVI. **Histone Deacetylase Inhibition Activity and Molecular Docking of (E)-Resveratrol: Its Therapeutic Potential in Spinal Muscular Atrophy**

Dayangac-Erden D., Bora G., Ayhan P., Kocaefe C., DALKARA S., Yelekci K., DEMİR A. G. , Erdem-Yurter H.

CHEMICAL BIOLOGY & DRUG DESIGN, vol.73, no.3, pp.355-364, 2009 (Journal Indexed in SCI)

XVII. **Adipocyte differentiation defect in mesenchymal stromal cells of patients with malignant infantile osteopetrosis**

Uckan D., KILIÇ E., SHARAFI P., Kazık M., Kaya F. A. , Erdemli E., Can A., TEZCANER A., Kocaefe C.

CYTOTHERAPY, vol.11, no.4, pp.392-402, 2009 (Journal Indexed in SCI)

XVIII. **Changes in the expression of selenoproteins in mesial temporal lobe epilepsy patients**

YÜZBAŞIOĞLU A., Karatas H., GURSOY-OZDEMİR Y., Saygi S., Akalan N., Soylemezoglu F., DALKARA T., KOCAEFE Y. Ç. , ÖZGÜÇ M.

Cellular and Molecular Neurobiology, vol.29, no.8, pp.1223-1231, 2009 (Journal Indexed in SCI Expanded)

XIX. **Functional structure of adipocytes differentiated from human umbilical cord stroma-derived stem cells**

Karahuseyinoglu S., Kocaefe C., Balci D., Erdemli E., Can A.

- STEM CELLS, vol.26, no.3, pp.682-691, 2008 (Journal Indexed in SCI)
- XX. **Statin potentiates human platelet eNOS activity without enhancing eNOS mRNA and protein levels**
Yemisci M., AY H., Kocaeffe C., Qui J., Topalkara K., ÖZGÜÇ M., KIRAZLI S., Ozcebe O., Moskowitz M. A. , DALKARA T.
CEREBROVASCULAR DISEASES, vol.26, no.2, pp.190-198, 2008 (Journal Indexed in SCI)
- XXI. **Biology of stem cells in human umbilical cord stroma: In situ and in vitro surveys**
Karahuseyinoglu S., Cinar O., Kilic E., Kara F., Akay G. G. , Demiralp D. O. , Tukun A., Uckan D., Can A.
STEM CELLS, vol.25, no.2, pp.319-331, 2007 (Journal Indexed in SCI)
- XXII. **The Genetic Basis of the Polycystic Ovary Syndrome: A Literature Review Including Discussion of PPAR-gamma**
UNLUTURK U., Harmanci A., Kocaeffe C., YILDIZ B.
PPAR RESEARCH, vol.2007, 2007 (Journal Indexed in SCI)
- XXIII. **Interleukin-10 gene transfer: Prevention of multiple organ injury in a murine cecal ligation and puncture model of sepsis**
KABAY B., Kocaeffe C., Baykal A., OEZDEN H., BAYCU C., ONER Z., Oezguc M., SAYEK I.
WORLD JOURNAL OF SURGERY, vol.31, no.1, pp.105-115, 2007 (Journal Indexed in SCI)
- XXIV. **Liposome-mediated intraperitoneal interleukin 10 gene transfer increases survival in cecal ligation and puncture model of sepsis**
Kabay B., Kocaeffe Y. C. , Baykal A., Ozguc M., SAYEK I.
SHOCK, vol.26, no.1, pp.37-40, 2006 (Journal Indexed in SCI)
- XXV. **Androgen receptor immunostaining and androgen receptor messenger ribonucleic acid expression are increased in cremaster muscles associated with undescended testis**
Tanyel F. C. , Yuzbasioglu A., Kocaeffe C., Orhan D., Ozguc M.
UROLOGY, vol.67, no.4, pp.855-858, 2006 (Journal Indexed in SCI)
- XXVI. **Myogenic program induction in mature fat tissue (with MyoD expression)**
Kocaeffe Y. Ç. , ISRAELI D., Ozguc M., DANOS O., GARCIA L.
EXPERIMENTAL CELL RESEARCH, vol.308, no.2, pp.300-308, 2005 (Journal Indexed in SCI)
- XXVII. **Four-month-old infant with focal segmental glomerulosclerosis and mitochondrial DNA deletion**
Unal S., Kalkanoglu H., Kocaeffe C., Gueer S., Ozen S., TURANLI G., Coskun T.
JOURNAL OF CHILD NEUROLOGY, vol.20, no.1, pp.83-84, 2005 (Journal Indexed in SCI)
- XXVIII. **Expression of matrix metalloproteinases in vasculitic neuropathy**
Gurer G., Erdern S., Kocaeffe C., Ozguc M., Tan E.
RHEUMATOLOGY INTERNATIONAL, vol.24, no.5, pp.255-259, 2004 (Journal Indexed in SCI)
- XXIX. **Four novel thymidine phosphorylase gene mutations in mitochondrial neurogastrointestinal encephalomyopathy syndrome (MNGIE) patients**
Kocaeffe Y. Ç. , Erdem S., Ozguc M., Tan E.
EUROPEAN JOURNAL OF HUMAN GENETICS, vol.11, no.1, pp.102-104, 2003 (Journal Indexed in SCI)
- XXX. **Calcium-antagonistic activity of sumatriptan in the rat anococcygeus muscle**
Emre-Aydingoz S., Kocaeffe C., Tuncer M.
PHARMACOLOGY, vol.64, no.1, pp.43-48, 2002 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Characterization of the Cellular Localization and Expression of AEBP1/ACLP Transcripts with an Unknown Function in Myoblasts**

kılıç h. b. , akçay d., sevim d., ÖZDEMİR SAKA C., KOCAEFE Y. Ç.

Molbiokon18 6th International Congress of the Molecular Biology Association of Turkey, 5 - 08 September 2018

- II. **Assessment of the Role of Tgf-beta and 3D Echocardiographic Evaluation in the Early Diagnosis of Atrial Remodelling in Elite Athletes**

YILDIRIM A., TOKGÖZOĞLU S. L. , YILDIRIM M., KOCAEFE Y. Ç. , DÖNMEZ G., ŞENER Y. Z. , OKŞUL M., ÖZER N.

ESC Congress 2018, MUNCHEN, Germany, 25 - 29 August 2018

- III. **The Fibrogenic Activation Kinetics of Stromal Stem Cells in Three Different Skeletal Muscle Degeneration Models**
ÖZDEMİR SAKA C., AKÇAY D., YÖYEN ERMİŞ D., ESENDAĞLI G., KOCAEFE Y. Ç.
43rd FEBS CONGRESS, 7 - 12 July 2018
- IV. **Comparative Transcriptome Analysis of Distinct Stromal Cell Populations During Extracellular Matrix Remodeling in Skeletal Muscle**
ÖZDEMİR SAKA C., AKÇAY D., YÖYEN ERMİŞ D., TAŞKIRAN Z. E. , ESENDAĞLI G., KOCAEFE Y. Ç.
13th Meeting of the Mediterranean Society of Myology, 27 - 29 June 2018, vol.37, pp.129-183
- V. **GENERATION OF INDUCED PLURIPOTENT STEM CELLS FROM MESENCHYMAL STEM CELLS OF OSTEOPELOSIS PATIENTS BY TWO DIFFERENT INTEGRATION-FREE METHODS UNDER FEEDER-FREE CONDITIONS**
OKUR F. V. , CEVHER İ., KILIÇ E., ÖZDEMİR SAKA C., KOCAEFE Y. Ç. , ÇETİNKAYA F. D.
ISCT, 2 - 05 May 2018
- VI. **AEBP1/ACLP is upregulated in differentiation, injury repair and fibrotic degeneration of skeletal muscle**
Ozdemir C., Akpulat U., Onbasilar I., Kocaeefe C.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.287
- VII. **Generation of targeted insertion in the Klf5 gene of mouse myoblasts (C2C12 cells) using CRISPR/Cas9 system**
Akçay D., Kocaeefe C.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.129
- VIII. **Mitochondrial myopathies: clinical, pathological and genetic features in a large series of patients**
Celebi O., Kocaeefe C., Ozdamar S. E. , Ozguc M., Tan E.
13th Congress of the European-Federation-of-Neurological-Societies, Florence, Italy, 12 - 15 September 2009, vol.16, pp.213
- IX. **Familial parkinsonism with apathy, depression and central hypoventilation (Perry's syndrome)**
Elibol B., Kobayashi T., Atac F., Hattori N., Sahin G., Gurer G., Mizuno Y.
5th International Conference on the Progress in Alzheimers and Parkinsons Disease/9th International Catecholamine Symposium, Kyoto, Japan, 31 March - 05 April 2001, vol.51, pp.285-290

Supported Projects

KOCAEFE Y. Ç. , TUBITAK Project, UPKH Uyarılmış Pluripotent Kök Hücre Banka Teknolojileri Geliştirme 1003 projesi, 2014 - Continues

YORGUN H., KOCAEFE Y. Ç. , ÖZER N., TOKGÖZOĞLU S. L. , YILDIRIM A., Project Supported by Higher Education Institutions, Atrial Yeniden Yapılanmanın Erken Dönem Tanısında Radyodiyagnostik Tekniklerin Tanı Gücünün Araştırılması, 2017 - 2019

OKUR F. V. , Özdemir Saka C., Cevher İ., KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, Epizomal Vektör ile Geliştirilen İnsan Uyarılmış Pluripotent Kök Hücrelerinin UPKH pluripotans özelliklerinin ve in vitro farklılaşma potansiyellerinin değerlendirilmesi, 2017 - 2018

KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, İskelet Kası Hasarı ve Tamirinde Yeni Araçlar ve Yolaklar Arayışı, 2016 - 2017

YILMAZ T., SİVRİ B., KANBUR N., KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, Elektronik asistan kartesi yazılımının hastane bilgi yönetim sistemine entegrasyonu, 2015 - 2017

KOCAEFE Y. Ç. , TUBITAK Project, iskelet Kası Kök Hücrelerinde Klf5 Protein Etkileşim Partnerlerinin Ve Yolaklarının Tanımlanması, 2015 - 2017

KOCAEFE Y. Ç. , TUBITAK Project, iskelet Kası Dejenerasyonunda Rol Oynayan Stromal Hücre Populasyonunun Karakterizasyonu, 2015 - 2017

KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, Kas kök hücreleri farklılaşma ve çoğalma süreçlerinde yeni transkripsiyon faktörlerinin rolü, 2015 - 2016

KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, Fare Klf5 Genine Bildirici Etiket Dizisinin Yerleştirilmesi ve Protein Etkileşimlerinin Belirlenmesi, 2014 - 2016

AKPULAT U., Akçay D., Ozdemir Saka C., KOCAEFE Y. Ç. , Project Supported by Higher Education Institutions, Yaygın İfade Gösteren Çinko Parmak Transkripsiyon Faktörünün Miyogenezde Tanımlanmış Yeni Rolü, 2015 - 2015

Citations

Total Citations (WOS):739

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