

# Prof. DİDEM DAYANGAÇ ERDEN

## Personal Information

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## Education Information

Doctorate, Hacettepe University, Tıp Fakültesi , Turkey 2000 - 2005

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Spinal müsküler atrofi'de RNA işleme hatasının ve tedavinin araştırılması, Hacettepe Üniversitesi, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2005

Postgraduate, Sistinüri de moleküler genetik incelemeler, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1999

## Research Areas

Life Sciences, Molecular Biology and Genetics, Genetic Disorders, Natural Sciences

## Advising Theses

DAYANGAÇ ERDEN D., Nöronal farklılaşma sürecinde perinöronal kılıf elemanlarının incelenmesi, Postgraduate, F.NAZLI(Student), 2015

DAYANGAÇ ERDEN D., Spinal müsküler atrofi patogenezinde rol alan genetik düzenleyicilerin ifade analizi, Postgraduate, İ.HANDE(Student), 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- Cystic fibrosis newborn screening: Five-year experience from a tertiary care center**  
Buyuksahin H. N., EMİRALİOĞLU N., Ozsezen B., Tural D. A., SUNMAN B., GÜZELKAŞ İ., Tezel B., DAYANGAÇ ERDEN D., Yalcin E., DOĞRU ERSÖZ D., et al.  
PEDIATRIC PULMONOLOGY, vol.57, pp.403-410, 2022 (SCI-Expanded)
- Differentially expressed genes associated with disease severity in siblings with cystic fibrosis**  
Ekinci I. B., Hizal M., EMİRALİOĞLU N., Ozcelik U., Yalcin E., DOĞRU ERSÖZ D., Kiper N., Dayangac-Erden D.  
Pediatric Pulmonology, vol.56, no.5, pp.910-920, 2021 (SCI-Expanded)
- The Common miRNA Signatures Associated with Mitochondrial Dysfunction in Different Muscular**

## **Dystrophies**

AKSU MENGEŞ E., Akkaya-Ulum Y. Z., DAYANGAÇ ERDEN D., Balci-Peynircioglu B., YÜZBAŞIOĞLU A., Topaloglu H., TALİM B., Balci-Hayta B.

AMERICAN JOURNAL OF PATHOLOGY, vol.190, no.10, pp.2136-2145, 2020 (SCI-Expanded)

- IV. **Establishment of primary myoblast cell cultures from cryopreserved skeletal muscle biopsies to serve as a tool in related research & development studies**  
Balci-Hayta B., Bekircan-Kurt C. E., AKSU MENGEŞ E., DAYANGAÇ ERDEN D., Tan E., ERDEM ÖZDAMAR S.  
JOURNAL OF THE NEUROLOGICAL SCIENCES, vol.393, pp.100-104, 2018 (SCI-Expanded)
- V. **Do Perineuronal Net Elements Contribute to Pathophysiology of Spinal Muscular Atrophy? In Vitro and Transcriptomics Insights**  
DAYANGAÇ ERDEN D., GÜR DEDEOĞLU B., Eskici F. N., Oztemur-Islakoglu Y., ERDEM ÖZDAMAR S.  
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.22, no.9, pp.598-606, 2018 (SCI-Expanded)
- VI. **Common miRNA signatures in a group of rare neuromuscular disorders**  
Aksu E., Akkaya-Ulum Y. Z., Balci-Peynircioglu B., Dayangac-Erden D., Yuzbasioglu A., Bakir-Gungor B., Talim B., Balci-Hayta B.  
FEBS OPEN BIO, vol.8, pp.467, 2018 (SCI-Expanded)
- VII. **The altered expression of perineuronal net elements during neural differentiation**  
Eskici N. F., ERDEM ÖZDAMAR S., DAYANGAÇ ERDEN D.  
CELLULAR & MOLECULAR BIOLOGY LETTERS, vol.23, 2018 (SCI-Expanded)
- VIII. **Transcript levels of plastin 3 and neuritin 1 modifier genes in spinal muscular atrophy siblings**  
Yener I. H., Topaloglu H., ERDEM ÖZDAMAR S., DAYANGAÇ ERDEN D.  
PEDIATRICS INTERNATIONAL, vol.59, no.1, pp.53-56, 2017 (SCI-Expanded)
- IX. **Role of Hyaluronan and proteoglycan link protein 1 during neuritogenesis**  
DAYANGAÇ ERDEN D.  
FEBS JOURNAL, vol.283, pp.271, 2016 (SCI-Expanded)
- X. **Effects of Exercise on Low Density Lipoprotein Receptor Related Protein 5 Gene Expression in Patients With Postmenopausal Osteoporosis**  
Kilic G., DAYANGAÇ ERDEN D., Erol O., Kilic E., KARA M., Erdem Yurter H., AKINCI A.  
ARCHIVES OF RHEUMATOLOGY, vol.31, no.4, pp.314-320, 2016 (SCI-Expanded)
- XI. **Effects of flavonoid quercetin on survival of motor neuron gene expression.**  
Uzunalli G., Bora-Tatar G., Dayangac-Erden D., Erdem-Yurter H.  
Cell biology international, vol.39, no.3, pp.350-4, 2015 (SCI-Expanded)
- XII. **Aryl butenoic acid derivatives as a new class of histone deacetylase inhibitors: synthesis, in vitro evaluation, and molecular docking studies**  
Esiyok P. A., Seven O., Eymur G., Tatar G. B., DAYANGAÇ ERDEN D., YELEKÇİ K., YURTER H., DEMİR A. G.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.2, pp.338-344, 2014 (SCI-Expanded)
- XIII. **Carboxylic acid derivatives of histone deacetylase inhibitors induce full length SMN2 transcripts: a promising target for spinal muscular atrophy therapeutics.**  
Dayangac-Erden D., Bora-Tatar G., DALKARA S., DEMİR A. G., Erdem-Yurter H.  
Archives of medical science : AMS, vol.7, no.2, pp.230-4, 2011 (SCI-Expanded)
- XIV. **Association of cystic fibrosis genetic modifiers with congenital bilateral absence of the vas deferens**  
Havasi V., Rowe S. M., Kolettis P. N., DAYANGAÇ ERDEN D., ŞAHİN A., Grangeia A., Carvalho F., Barros A., Sousa M., Bassas L., et al.  
FERTILITY AND STERILITY, vol.94, no.6, pp.2122-2127, 2010 (SCI-Expanded)
- XV. **The Relationship between Vitamin D Receptor Gene Polymorphisms and Bone Density, Osteocalcin Level and Growth in Adolescents**  
Ozaydin E., Dayangac-Erden D., Erdem-Yurter H., DERMAN O., COŞKUN T.  
JOURNAL OF PEDIATRIC ENDOCRINOLOGY & METABOLISM, vol.23, no.5, pp.491-496, 2010 (SCI-Expanded)
- XVI. **Molecular modifications on carboxylic acid derivatives as potent histone deacetylase inhibitors: Activity and docking studies.**  
Bora-Tatar G., Dayangac-Erden D., DEMİR A. G., DALKARA S., Yelekci K., Erdem-Yurter H.

- Bioorganic & medicinal chemistry, vol.17, no.14, pp.5219-28, 2009 (SCI-Expanded)
- XVII. **Histone Deacetylase Inhibition Activity and Molecular Docking of (E)-Resveratrol: Its Therapeutic Potential in Spinal Muscular Atrophy**  
Dayangac-Erden D., Bora G., Ayhan P., Kocaefer C., DALKARA S., Yelekci K., DEMİR A. G., Erdem-Yurter H.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.73, no.3, pp.355-364, 2009 (SCI-Expanded)
- XVIII. **A preliminary report on spinal muscular atrophy lymphoblastoid cell lines: Are they an appropriate tool for drug screening?**  
Dayangac-Erden D., Topaloglu H., Erdem-Yurter H.  
ADVANCES IN THERAPY, vol.25, no.3, pp.274-279, 2008 (SCI-Expanded)
- XIX. **Are lymphoblastoid cell lines suitable to study increased SMN gene expression by histone deacetylase inhibitors?**  
DAYANGAÇ ERDEN D., Topaloglu H., YURTER H.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.38, no.1, pp.7-12, 2008 (SCI-Expanded)
- XX. **Vitamin D receptor gene polymorphisms in Turkish children with vitamin D deficient rickets**  
BORA G., Oezkan B., Dayangac-Erden D., Erdem-Yurter H., COŞKUN T.  
TURKISH JOURNAL OF PEDIATRICS, vol.50, no.1, pp.30-33, 2008 (SCI-Expanded)
- XXI. **MEDI 333-Histone deacetylase inhibition activity of resveratrol and its analogs**  
Dayangac-Erden D., Ayhan P., BORA G., Yelekci K., DALKARA S., DEMİR A. G., Erdem-Yurter H.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.234, 2007 (SCI-Expanded)
- XXII. **COMP 297-Experimental and molecular docking simulation studies of Histone deacetylases (HDACs) enzyme inhibitors**  
Yelekci K., BORA G., Dayangac-Erden D., Ayhan P., DALKARA S., DEMİR A. G., Erdem-Yurter H.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.234, 2007 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Novel transcriptional biomarkers for diagnosis and prognosis of sepsis**  
İnal ç., DURUSU TANRIÖVER M., DAYANGAÇ ERDEN D.  
Acta Medica, vol.5, no.1, pp.11-18, 2016 (Peer-Reviewed Journal)
- II. **Monogenic disorders and modifier genes: Is genotype predictive of phenotype?**  
Yener I. H., DAYANGAÇ ERDEN D.  
MARMARA MEDICAL JOURNAL, vol.27, no.2, pp.96-101, 2014 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Kistik fibrozis hastalarında moleküler genetik araştırmalar ve yeni tanımlanan varyantların in-siliko analizi**  
Ekinci İ. B., GHARİBZADEH HIZAL M., Eşref S., EMİRALİOĞLU N., Özçelik U., Yalçın E., DOĞRU ERSÖZ D., Yılmaz E., KİPER E. N., DAYANGAÇ ERDEN D.  
16. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, 27 - 30 October 2019
- II. **Altered Expression of Perineuronal Net Elements in SMN Knockdown Cells**  
Dayangac-Erden D., Eskici N., Erdem-Ozdamar S.  
50th European-Society-of-Human-Genetics (ESHG) Conference, Copenhagen, Denmark, 27 - 30 May 2017, vol.26, pp.622
- III. **Establishment of primary myoblast cell culture from cryoprotected skeletal muscle biopsies**  
Balci-Hayta B., Bekircan-Kurt C., Aksu E., Dayangac-Erden D., Tan E., Erdem-Ozdamar S.  
22nd International Annual Congress of the World-Muscle-Society (WMS), Saint-Lo, France, 3 - 07 October 2017, vol.27
- IV. **Physical interaction and gene expression analysis of perineuronal net elements in neuronal**

## **differentiation**

Eskici F. N., Tastan O., Olgun G., Dayangac-Erden D.

42nd Congress of the Federation-of-European-Biochemical-Societies (FEBS) on From Molecules to Cells and Back, Jerusalem, Israel, 10 - 14 September 2017, vol.284, pp.250-251

### **V. Role of hyaluronan and proteoglycan link protein 1 during neuritogenesis**

Eskici F. N., Olgun G., Tastan O., Dayangac-Erden D.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.271

### **VI. Phenolic compounds and their effect on full length and delta7 SMN2 transcripts**

Dayangac-Erden D., Bora-Tatar G., DALKARA S., Erdem-Yurter H.

16th International Congress of the World-Muscle-Society, Algarve, Portugal, 18 - 22 October 2011, vol.21, pp.685-686

### **VII. Vitamin D receptor gene polymorphisms and calcipotriol response in Turkish patients with psoriasis**

Dayangac-Erden D., Karaduman A., Yurter H. E.

Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference, Athens, Greece, 28 June - 03 July 2008, vol.275, pp.109

## **Supported Projects**

DAYANGAÇ ERDEN D., Atalay M., ÖZÇELİK H. U., KİPER E. N., DOĞRU ERSÖZ D., YALÇIN E. E., Project Supported by Higher Education Institutions, Kistik Fibrozis Hastalarında Fenotipik Farklılığı Açıklamaya Yönelik MikroRNAların Belirlenmesi ve İşlevlerinin Araştırılması, 2018 - 2022

DAYANGAÇ ERDEN D., ÖZÇELİK H. U., DOĞRU ERSÖZ D., YALÇIN E. E., Ekinci İ. B., Project Supported by Higher Education Institutions, Kistik Fibrozis Hastalarında Fenotipik Ciddiyeti Etkileyen Genlerin ve İlişkili Yolakların Araştırılması, 2019 - 2020

DAYANGAÇ ERDEN D., ÖZÇELİK H. U., KİPER E. N., DOĞRU ERSÖZ D., YALÇIN E. E., GHARİBZADEH HIZAL M., Eşref S., Eskici N., Project Supported by Higher Education Institutions, Kistik Fibrozis Hastalarında CFTR ve Fenotipi Modifiye Eden Diğer Aday Genlerin Araştırılması, 2017 - 2019

KARAKOÇ SÖKMENSÜER L., Hashemihesar R., MÜFTÜOĞLU S. F., YEĞENOĞLU H., ZEYBEK N. D., BOZDAĞ G., MÜMÜŞOĞLU S., DAYANGAÇ ERDEN D., Project Supported by Higher Education Institutions, Rekombinant FSH'nın IVF tedavisi uygulanan Polikistik Over Sendromu hastalarının follikül sıvılarından elde edilen granüloza hücrelerinde Konneksin 43 ve Aromataz aktivitesi üzerine etkisi, 2017 - 2018

DAYANGAÇ ERDEN D., Project Supported by Higher Education Institutions, Nörit uzama sürecinde HAPLN1 rolünün araştırılması, 2013 - 2015

## **Metrics**

Publication: 37

Citation (WoS): 225

Citation (Scopus): 266

H-Index (WoS): 6

H-Index (Scopus): 6

## **Non Academic Experience**

Hacettepe Üniversitesi Tıp Fakültesi