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Education Information

Doctorate, Istanbul University, Health Sciences Institute, Genetik Ad., Turkey 2005 - 2012

Postgraduate, Istanbul University, Health Sciences Institute, Tıbbi Genetik, Turkey 1997 - 2000

Undergraduate, Istanbul University, Faculty Of Science, Department of Biology, Turkey 1993 - 1997

Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Internal Diseases , Hematology, Medical Genetics

Academic Titles / Tasks

Researcher, Istanbul University, Istanbul Medical Faculty, Division of Medical Sciences , 2002 - Continues

Courses

Laboratuvar Uygulama Dersi: Kanser Genetiği Tanı Testleri, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Relationship between amide ratio assessed by Fourier-transform infrared spectroscopy: A biomarker candidate for polycythemia vera disease**
Guleken Z., Aday A., Bayrak A. G., Hindilerden İ. Y., Nalçacı M., Cebulski J., Depciuch J.
JOURNAL OF BIOPHOTONICS, 2024 (SCI-Expanded)
- II. **Raman Spectroscopy of Blood Serum for Essential Thrombocythemia Diagnosis: Correlation with Genetic Mutations and Optimization of Laser Wavelengths**
Aday A., Bayrak A. G., Toraman S., Hindilerden İ. Y., Nalçacı M., Depciuch J., Cebulski J., Guleken Z.
CELL BIOCHEMISTRY AND BIOPHYSICS, 2024 (SCI-Expanded)
- III. **Application of Fourier Transform InfraRed spectroscopy of machine learning with Support Vector Machine and principal components analysis to detect biochemical changes in dried serum of patients with primary myelofibrosis**
Guleken Z., Ceylan Z., Aday A., Bayrak A. G., Hindilerden İ. Y., Nalçacı M., Jakubczyk P., Jakubczyk D., Depciuch J.
BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, vol.1867, no.10, 2023 (SCI-Expanded)
- IV. **Detection of primary myelofibrosis in blood serum via Raman spectroscopy assisted by machine learning approaches; correlation with clinical diagnosis**

Guleken Z., Ceylan Z., Aday A., Bayrak A. G., Hindilerden İ. Y., Nalçacı M., Jakubczyk P., Jakubczyk D., Kula-Maximenko M., Depciuch J.

NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE, vol.53, 2023 (SCI-Expanded)

- V. **FTIR- based serum structure analysis in molecular diagnostics of essential thrombocythemia disease**
Guleken Z., Ceylan Z., Aday A., Bayrak A. G., Hindilerden İ. Y., Nalçacı M., Jakubczyk P., Jakubczyk D., Depciuch J.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.245, 2023 (SCI-Expanded)
- VI. **Raman spectroscopy-based biomarker screening by studying the fingerprint and lipid characteristics of Polycythem...a Vera cases blood serum**
Guleken Z., Depciuch J., Ceylan Z., Jakubczyk P., Jakubczyk D., Nalçacı M., Aday A., Bayrak A. G., Hindilerden İ. Y., Hindilerden F.
PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, vol.42, 2023 (SCI-Expanded)
- VII. **Overview of clinical and genetic features of CML patients with variant Philadelphia translocations involving chromosome 7: A case series**
Bayrak A. G., Daglar Aday A., Yavuz A. S., Nalcaci M., Ozbalak M. M., Cefle K., Ozturk Ş., Palanduz Ş.
LEUKEMIA RESEARCH, vol.111, 2021 (SCI-Expanded)
- VIII. **A case mimicking chronic myeloid leukemia with t(8;22)(p11;q11)/BCR-FGFR1 and sequential transformation to B-acute lymphoblastic leukemia and acute myeloid leukemia**
Bayrak A. G., Ucur A., Aday A., Bagatır G., Erdem S., Hancer V. S., Nalcaci M., Ozturk Ş., Cefle K., Palanduz Ş., et al.
Journal of Hematopathology, vol.14, no.2, pp.151-156, 2021 (SCI-Expanded)
- IX. **RELATIONSHIP BETWEEN CHROMOSOMAL ABERRATIONS AND GENE EXPRESSIONS IN THE p53 PATHWAY IN CHRONIC LYMPHOCYTIC LEUKEMIA**
ÖZTAN G., Aktan M., Palanduz Ş., İŞSEVER H., ÖZTÜRK Ş., Nikerel E., Ucur A., Bagatır G., BAYRAK A. G., ÇEFLE K.
BALKAN JOURNAL OF MEDICAL GENETICS, vol.23, no.1, pp.15-23, 2020 (SCI-Expanded)
- X. **Roles of Signal Transducer Pathways in Investigation of Biopsies from Patients with Bladder Tumors**
Bayrak A. G., Palanduz S., Coskunpinar E., Sanlı O., Armagan A., Karakus S., Topaktas R., Cefle K., Ozturk Ş., Ucur A.
Asian Pacific journal of cancer prevention : APJCP, vol.18, no.1, pp.201-205, 2017 (SCI-Expanded)
- XI. **Balanced Chromosomal Translocation of Chromosomes 6 and 7: A Rare Male Factor of Spontaneous Abortions**
RESİM S., Kadioglu A., Akman T., Bayrak A. G., Efe E.
BALKAN MEDICAL JOURNAL, vol.30, no.2, pp.250-252, 2013 (SCI-Expanded)
- XII. **NILOTINIB EFFICACY IN 21 IMATINIB-RESISTANT OR-INTOLERANT T (9;22) POSITIVE CHRONIC MYELOID LEUKEMIA PATIENTS WITH AND WITHOUT ADDITIONAL CHROMOSOMAL CHANGES**
Yavuz A. S., Elcioglu O. C., Akpınar T. S., Cosan F., Ucur A., Bayrak A., Cefle K., Oeztuerk S., Palanduz S., Yenerel M. N., et al.
NOBEL MEDICUS, vol.6, no.2, pp.57-62, 2010 (SCI-Expanded)
- XIII. **Cytogenetic Analysis and Examination of SOS1 Gene Mutation in a Turkish Family with Hereditary Gingival Fibromatosis**
Pehlivan D., Abe S., Ozturk S., Kayhan K., Gunduz E., Cefle K., Bayrak A. G., Ark N., Gunduz M., Palanduz S.
JOURNAL OF HARD TISSUE BIOLOGY, vol.18, no.3, pp.131-134, 2009 (SCI-Expanded)
- XIV. **Comparison of the Cytogenetic and Molecular Analyses in the Assessment of Imatinib Response in Chronic Myelocytic Leukemia**
Palanduz S., Bayrak A., Sirma S., Vural B., Cefle K., Ucur A., Ozturk Ş., Yenerel M. N., Besisik S., Yavuz S., et al.
GENETIC TESTING AND MOLECULAR BIOMARKERS, vol.13, no.5, pp.599-602, 2009 (SCI-Expanded)
- XV. **Increased sister chromatid exchange frequency in young women with breast cancer and in their first-degree relatives.**
Cefle K., Ucur A., Guney N., Ozturk S., Palanduz S., Tas F., Asoglu O., Bayrak A. G., Muslumanoglu M. E., Aydinler A.
Cancer genetics and cytogenetics, vol.171, pp.65-7, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Rare Variant Translocation (t(5922)(q13q34q11.2)) In A Case With Chronic Myeloid Leukemia**
ERKAL H., ÖZTÜRK Ş., YÜCEL S., ÇEFLE K., BAGATIR G., BAYRAK A., KARAMAN B., BAŞARAN S., AYDIN D.,
PALANDUZ Ş.
Tıp Fakültesi Klinikleri Dergisi, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Sitogenetik Yöntemlerle Tanı Konan Tek Gen Hastalıkları**
Bayrak A. G., Öztürk Ş.
in: Klinisyenler İçin Genetik Testler, Prof.Dr.Şükrü Öztürk,Prof.Dr.Kıvanç Çefle, Editor, EMA Tıp Kitabevi Yayıncılık
Tic. Ltd. Şti., İstanbul, pp.115-126, 2023
- II. **Hematolojik Malignitelere Floresan İn Situ Hibridizasyon**
Bayrak A. G.
in: Klinisyenler İçin Genetik Testler, Prof.Dr Şükrü Öztürk,Prof.Dr.Kıvanç Çefle, Editor, EMA Tıp Kitabevi Yayıncılık
Tic. Ltd. Şti., İstanbul, pp.97-114, 2022
- III. **Hematolojik Malignitelere Konvansiyonel Sitogenetik**
Bayrak A. G., Öztürk Ş.
in: Klinisyenler İçin Genetik Testler, Prof.Dr.Şükrü Öztürk,Prof.Dr.Kıvanç Çefle, Editor, EMA Tıp Kitabevi Yayıncılık
Tic. Ltd. Şti., İstanbul, pp.59-96, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **TET2 gene variations in patients with myeloid malignancies**
Aday A., Sırma Ekmekci S., Bayrak A. G., Çefle K., Öztürk Ş., Nalçacı M., Palanduz Ş.
XVII. Tıbbi Biyoloji ve Genetik Kongresi, 28 - 31 October 2021, vol.52, pp.242-243
- II. **CEBPA c.584589dup p.His195Pro196dup variant in myeloid malignancies**
Suer İ., Sırma Ekmekci S., Aday A., Bayrak A. G., Çefle K., Öztürk Ş., Nalçacı M., Palanduz Ş.
The Virtual Conference on Current Challenges in Hematology (C-HEM2021), 18 - 19 March 2021
- III. **A Case of a Variant Philadelphia Translocation Involving Chromosomes (7;9;22)(q22;q34;q11) in Chronic Myeloid Leukemia**
BAYRAK A. G., ADAY A., UÇUR A., ÖZBALAK M. M., NALÇACI M., ÇEFLE K., ÖZTÜRK Ş., PALANDUZ Ş.
13th Balkan Congress of Human Genetics, Edirne, Turkey, 17 - 20 April 2019, vol.BJMG, no.39, pp.76
- IV. **Akut Myeloid Lösemi ve 3q Kromozomal Yeniden Düzenlenmeleri**
Bağatır Ozan G., Kaya M., Dön B., Suer İ., Nalçacı M., Yenerel M. N., Çefle K., Uçur A., Bayrak A. G., Öztürk Ş., et al.
3.Ulusal Uygulamalı Biyolojik Bilimler Kongresi (UBBK), Eskişehir, Turkey, 3 - 05 May 2018, pp.35
- V. **idic(Y)(q11.2) ABNORMALITY IN CASES WITH MIXT GONADAL DYSGENESIS AND INFERTILITY**
Kaya M., Suer İ., Kalaycı T., Karaman B., Dön B., Bağatır Ozan G., Uçur A., Öztan G., Bayrak A. G., Çefle K., et al.
Erciyes Medical Genetics Days, Kayseri, Turkey, 7 - 10 March 2018, pp.16
- VI. **Investigation of MTA induced genotoxicity by sister chromatid exchange**
DİNÇOL M. E., BAYRAK A. G., UÇUR A., Gürbüz Erdin H. H., YILMAZ B., DAĞLAROĞLU R., ÇOŞKUNPINAR E. M.,
Müşteri Oltulu Y., ERİŞEN F. R., PALANDUZ Ş.
16th Biennial Congress of the European Society of Endodontics, Lizbon, Portugal, 12 - 14 September 2013, pp.41
- VII. **Investigation of MTA induced genotoxicity by sister chromatid exchange: a pilot study.**
DİNÇOL M. E., BAYRAK A. G., UÇUR A., ERDİN H. H., YILMAZ B., DAĞLAROĞLU R., ÇOŞKUNPINAR E. M., OLTULU Y. M.,
ERİŞEN F. R., PALANDUZ Ş.
16. BIENNIAL CONGRESS OF THE EUROPEAN SOCIETY OF ENDODONTOLOGY, Lizbon, Portugal, 12 - 14 September
2013, pp.41
- VIII. **Variant philadelphia translocations in patients with chronic myeloid leukemia**
Satkan B. N., PALANDUZ Ş., KARAMAN B., ÖZTÜRK Ş., ÇEFLE K., Bagatır G., Uçur A., Bayrak A. G., Yenerer M.

Supported Projects

Erdem S., Bayrak A. G., Aday A., Project Supported by Higher Education Institutions, Matür B Hücreli ve Plazma Hücreli Neoplazmlarda Kemikliği Sitogenetik Anomalilerin Optik Genom Haritalama Yöntemiyle Araştırılması, 2023 - 2025

Bayrak A. G., Çefle K., Project Supported by Higher Education Institutions, Yeni Tanılı Multipl Miyeloma Hastalarında Sitogenetik Anomalilerin Optik Genom Haritalama Yöntemiyle Araştırılması, 2023 - 2024

BAYRAK TOKAÇ A. G., Project Supported by Higher Education Institutions, MESANE TÜMÖRLÜ OLGULARIN BİYOPSİ ÖRNEKLERİNDE SİNYAL İLETİ YOLAKLARININ ROLLERİNİN ARAŞTIRILMASI, 2015 - 2017

Metrics

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