Lect. PhD ÖZGE SÖNMEZLER

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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoteknoloji, Turkey 2018 - 2023
Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoteknoloji, Turkey 2016 - 2018
Undergraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2011 - 2015

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Kanserde likit biyopsi ve yeni nesil dizileme metodunun klinik laboratuvar uygulamalarına entegrasyonu, Cukurova University, Fen Bilimleri Enstitüsü, 2018

Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Medical Genetics, Life Sciences, Molecular Biology and Genetics, Natural Sciences

Academic Titles / Tasks

Lecturer, Cukurova University, ----------, CU AGENTEM, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Germline landscape of BRCAs by 7-site collaborations as a BRCA consortium in Turkey**
BİŞGİN A., ÖZEMRİ SAĞ Ş., Dogan M. E., Yildirim M. S., Gumus A. A., Akkus N., Balasar O., Durmaz C. D., Ersoz R., Altiner S., et al.
BREAST, vol.65, pp.15-22, 2022 (SCI-Expanded)

II. **The impact of rare and low-frequency genetic variants in common variable immunodeficiency (CVID)**

Bisgin A., Sönmezler Ö., Boga İ., Yilmaz M.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)

III. **The emerging clinical relevance of genomic profiling in neuroendocrine tumours**
Burak G. I., Ozge S., Cem M., Gulgun B., Zeynep D. Y., Atil B.
BMC CANCER, vol.21, no.1, 2021 (SCI-Expanded)

IV. **Current Status of Genetic Diagnosis Laboratories and Frequency of Genetic Variants Associated with Cystic Fibrosis through a Newborn-Screening Program in Turkey**
Bozdogan S., Mujde C., BOĞA İ., SÖNMEZLER Ö., Hanta A., Rencuzogullari C., ÖZCAN D., ALTINTAŞ D. U., BİŞGİN A.
GENES, vol.12, no.2, 2021 (SCI-Expanded)

V. **Clinical Validation of a Novel GeneReader Next Generation Sequencing System for Tumor Specific Mutations and Bioinformatics Variant Analysis**
Boga İ., Sonmezler Ö., Bisgin A.
CLINICAL LABORATORY, vol.66, no.11, pp.2213-2218, 2020 (SCI-Expanded)

VI. **Integration of Liquid Biopsies into Clinical Laboratory Applications via NGS in Cancer Diagnostics**
Sonmezler Ö., Boga İ., Bisgin A.
CLINICAL LABORATORY, vol.66, no.5, pp.763-769, 2020 (SCI-Expanded)

VII. **BRCA mutation characteristics in a series of index cases of breast cancer selected independent of family history**
BİŞGİN A., Boga İ., Yalav O., Sonmezler Ö., TUĞ BOZDOĞAN S.
BREAST JOURNAL, vol.25, no.5, pp.1029-1033, 2019 (SCI-Expanded)

Articles Published in Other Journals

I. **A Multicenter Study of Genotype Variation/Demographic Patterns in 2475 Individuals Including 1444 Cases With Breast Cancer in Turkey**
BOĞA İ., ÖZEMRİ SAĞ Ş., Duman N., ÖZDEMİR S. Y., ERGÖREN M. Ç., DALCI K., MUJDE C., PARSAK C. K., RENCÜZOĞULLARI Ç., Sonmezler O., et al.
European Journal of Breast Health, vol.19, no.3, pp.235-252, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Limb Girdle Musküler Distrofilerde Genetik Heterojenite**
BİŞGİN A., BOGA İ., TÜMKAYA H., BEREKETOĞLU M. B., Rencüzoğulları Ç., SÖNMEZLER Ö., TUĞ BOZDOĞAN S.
15. Ulusal Tıbbi Genetik Kongresi, Turkey, 09 November 2022

II. **Kardiyomiyopati Bulguları Olan Hastaların Tanıya Yönelik Moleküler Genetik Yöntemlerle Etiyolojisinin Araştırılması**
BİŞGİN A., ABDULLAYEV R., SÖNMEZLER Ö., BOGA İ., DEMİRTAŞ M., ÖZMEN Ç., ERDEM S., TUĞ BOZDOĞAN S.
15. Ulusal Tıbbi Genetik Kongresi, Turkey, 09 November 2022

III. **Validation of an efficient electroporation protocol for the genetic modification of MCF-7 cells**
SÖNMEZLER Ö., MÜJDE C., BOGA İ., BİŞGİN A.
European and British Society of Gene and Cell Therapy Congress 2022, 11 October 2022

IV. **CRISPR-Cas9 mediated knockdown of PIK3CA to restore the therapeutic response via apoptotic pathway in breast cancer**
SÖNMEZLER Ö., MÜJDE C., BOGA İ., BİŞGİN A.
European and British Society of Gene and Cell Therapy Congress 2022, 11 October 2022

V. **Çoklu-Kanser Olgularında Genetik Danışmanlık ve Hasta Sağaltımı**
TUĞ BOZDOĞAN S., Özer S., BİŞGİN A., SÖNMEZLER Ö., MİRİLİ C.
9. Türk Tıbbi Onkoloji Kongresi, Girne, Cyprus (Kktc), 18 May 2022

VI. **ctDNA ve FFPE Temelli Tümör Mutasyon Yükü (TMB) Tespiti Gerçek Dünya Verisi: Türkiye**

BİŞGİN A., BOGA İ., SÖNMEZLER Ö., RENCÜZOĞULLARI Ç.
9. Türk Tıbbi Onkoloji Kongresi, Girne, Cyprus (Kktc), 18 May 2022

VII. **Tümör Mutasyon Yükü (TMB) ve Mikrosatellit İnstabilite (MSI) Analizinde Tek Basamak Test Stratejisi: Gerçek Laboratuvar Uygulaması**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ., TUĞ BOZDOĞAN S.
9. Türk Tıbbi Onkoloji Kongresi, Cyprus (Kktc), 18 - 22 May 2022

VIII. **Yeni Nesil Dizileme Temelli NTRK Füzyon Çalışmalarında FFPE Doku ve Likit Biyopsi Örneği Seçimlerinde Klinik Yönelimler ve Sonuçların Kümülatif Değerlendirilmesi**
BİŞGİN A., Müjde C., BOGA İ., SÖNMEZLER Ö., YAVUZ S., KÖSE F., IŞIKDOĞAN A., USUL AFŞAR Ç., KÜÇÜKÖNER M., ŞAHİN B., et al.
9. Türk Tıbbi Onkoloji Kongresi, Girne, Cyprus (Kktc), 18 May 2022

IX. **Current status of genetic diagnosis laboratories and frequency of genetic variants associated with cystic fibrosis through a newborn-screening program in Turkey**
TUĞ BOZDOĞAN S., MÜJDE C., BOGA İ., SÖNMEZLER Ö., HANTA A., RENCÜZOĞULLARI Ç., ÖZCAN D., ALTINTAŞ D. U., BİŞGİN A.
Annual Meeting of American Association of Human Genetics 2021, United States Of America, 18 October 2021

X. **The utility of non-invasive longitudinal molecular profiling for lung cancer patients**
RENCÜZOĞULLARI Ç., BOGA İ., SÖNMEZLER Ö., MÜJDE C., HANTA A., BİŞGİN A.
6. Uluslararası Katılımlı Erciyes Tıp Tibbi Genetik Kongresi, 16 - 18 September 2021

XI. **The evaluation of rare and low-frequency genetic variants in common variable immune deficiency (CVID) patients together with CV/RVCD (common variant/rare variant, common disease) hypothesis for final interpretation**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ., YILMAZ M.
6. Uluslararası Katılımlı Erciyes Tıp Tibbi Genetik Kongresi, Turkey, 16 September 2021

XII. **Liquid biopsy and FFPE tissue based somatic BRCA1/2 variant screening in breast and ovarian cancer**
BOGA İ., SÖNMEZLER Ö., BİŞGİN A.
American Association for Cancer Research (AACR) 2020 Annual Meeting, United States Of America, 24 - 29 April 2020

XIII. **The emerging clinical relevance of genomic profiling medicine in neuroendocrine tumors**
Sonmezler Ö., GÜNEY İ. B., Mujde C., Bisgin A.
AACR Annual Meeting, ELECTR NETWORK, 22 - 24 June 2020, vol.80

XIV. **The significance of liquid biopsy in colorectal cancer via GeneReader NGS Systems**
Mujde C., Hanta A., SÖNMEZLER Ö., RENCÜZOĞULLARI A., BOĞA İ., BİŞGİN A.
AACR Annual Meeting, ELECTR NETWORK, 22 - 24 June 2020, vol.80

XV. **Meta-analysis and single-center experience on the comprehensive genomic characterization and landscape of BRCA1 and BRCA2 in Turkey.**
BİŞGİN A., BOGA İ., SÖNMEZLER Ö., Müjde C., HANTA A., TUĞ BOZDOĞAN S.
JOURNAL OF CLINICAL ONCOLOGY, 20 May 2020

XVI. **The impact of rare and low-frequency genetic variants in common variable immunodeficiency (CVID)**
Bisgin A., Sonmezler Ö., Boga İ., Yilmaz M.
52nd Conference of the European-Society-of-Human-Genetics (ESHG), Gothenburg, Sweden, 15 - 18 June 2019, vol.27, pp.1370-1371

XVII. **A multi-gene panel test could help us how to approach a PID patient for malignancies**
BOGA İ., SÖNMEZLER Ö., Müjde C., YILMAZ M., BİŞGİN A.
European Society of Immunodeficiencies Conference, 18 - 21 September 2019

XVIII. **Emerging concept in liquid biopsy: analyses of different biological samples via next generation sequencing**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ., SAYGIDEĞER KONT Y., Müjde C.
13th Balkan Congress of Human Genetics Congress, 17 - 21 April 2019

XIX. **Kolorektal kanserde yeni nesil sekanslama ile tedavi değerlendirmesi ve katkısı**
RENCÜZOĞULLARI A., BİŞGİN A., BOGA İ., SÖNMEZLER Ö., ERDOĞAN K. E., YALAV O., ERAY İ. C.
Ulusal Cerrahi Onkoloji Sempozyumu, Turkey, 15 - 16 February 2019

XX. **Prevalence of significant genetic variants in glycogen storage diseasevia custom NGS panel in a single center hospital based study.**
BİŞGİN A., Boga İ., ÖNENLİ MUNGAN H. N., KÖR D., TUĞ BOZDOĞAN S., SÖNMEZLER Ö.
American Society of Human Genetics 68th Annual Meeting, 16 - 20 October 2018

XXI. **Performance of an NGS multi-gene panel for detection of hotspot variants in colorectal cancer patients.**
BOGA İ., MÜJDE C., TUĞ BOZDOĞAN S., SÖNMEZLER Ö., BİŞGİN A.
American Society of Human Genetics 68th Annual Meeting, 16 - 20 October 2018

XXII. **Genotyping ccfDNA in cerebrospinal fluid as a new source of liquid biopsy**
SÖNMEZLER Ö., BOGA İ., Müjde C., BİŞGİN A.
American Society of Human Genetics 68th Annual Meeting, 16 - 20 October 2018

XXIII. **Meme Kanseri Hastalarının Sağaltımında Çoklu-Gen Panellerinin Etkinliğinin Saptanması**
BİŞGİN A., Hanta A., Müjde C., BOGA İ., SÖNMEZLER Ö., TUĞ BOZDOĞAN S.
7. Multidisipliner Kanser Araştırma ve 1. Temel Onkoloji Kongresi, 11 - 14 October 2018

XXIV. **Kişiselleştirilmiş tıp uygulamaları kapsamında kolorektal kanserli hastaların multigen paneli analizleri**
BİŞGİN A., MÜJDE C., BOGA İ., SÖNMEZLER Ö., TUĞ BOZDOĞAN S.
7. Multidisipliner Kanser Araştırma ve 1. Temel Onkoloji Kongresi, 11 - 14 October 2018

XXV. **Aile Öyküsü Negatif Meme Kanserinde BRCA Gen Profillemesi**
BİŞGİN A., TUĞ BOZDOĞAN S., Boga İ., YALAV O., SÖNMEZLER Ö.
7. Moleküler Kanser Araştırma ve 1. Temel Onkoloji Kongresi, 11 October 2018

XXVI. **Alternatif Likit Biyopsi Materyali Olarak Serebrospinal Sıvının Kullanımı ve Etkinliği**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ., Müjde C.
7. Moleküler Kanser Araştırma ve 1. Temel Onkoloji Kongresi, 11 - 14 October 2018

XXVII. **Küçük Hücreli Dışı Akciğer Kansrinde Likit Biyopsi ve Yeni Nesil Dizileme Sistemi Validasyonu**
BİŞGİN A., BOGA İ., SÖNMEZLER Ö.
8. Ulusal Akciğer Kanseri Kongresi, Turkey, 4 - 07 October 2018

XXVIII. **BRCA mutation characteristics in a series of index cases of breast cancer independently of family history**
Bisgin A., Boga İ., Yalav O., Sonmezler Ö.
50th European-Society-of-Human-Genetics (ESHG) Conference, Copenhagen, Denmark, 27 - 30 May 2017, vol.26, pp.964-965

XXIX. **The evaluation of a new NGS system (GeneReader NGS System) in clinical use of cancer diagnostics: The first report**
Bisgin A., Sonmezler Ö., Boga İ.
50th European-Society-of-Human-Genetics (ESHG) Conference, Copenhagen, Denmark, 27 - 30 May 2017, vol.26, pp.660

XXX. **TREATMENT ASSESSMENT OF COLORECTAL CANCER BY ACTIONABLE NEXT-GENERATION-SEQUENCING MULTIGENE PANEL.**
Rencuzogullari A., Bisgin A., Erdogan K. E., Doran F., Yalav O., Boga İ., Sonmezler Ö., Eray I., Alabaz Ö., Gorgun E.
Annual Meeting of the American-Society-of-Colon-and-Rectal-Surgeon's, Tennessee, United States Of America, 19 - 23 May 2018, vol.61

XXXI. **Validation and implementation of next-generation sequencing in liquid biopsies by a novel NGS platform: Focus on non-small cell lung cancer**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ.
American Association for Cancer Research Annual Meeting, 14 - 18 April 2018

XXXII. **The significance of liquid biopsy for monitoring and therapy decision of lung adenocarcinoma: a case based review**

SÖNMEZLER Ö., BİŞGİN A., BOGA İ., TUĞ BOZDOĞAN S.
Erciyes Tıp Genetik Günleri, Turkey, 7 - 10 March 2018

XXXIII. **Risk management and genetic counselling in hereditary cancer syndrome diseases: experiences of a high risk clinic**
BİŞGİN A., Özer S., TUĞ BOZDOĞAN S., BOGA İ., SÖNMEZLER Ö.
Erciyes Tıp Genetik Günleri, Turkey, 7 - 10 March 2018

XXXIV. **Newborn screening for Cystic Fibrosis in Turkey: The view from the genetic diseases diagnosis center**
BOGA İ., BİŞGİN A., TUĞ BOZDOĞAN S., SÖNMEZLER Ö.
Erciyes Tıp Genetik Günleri, Turkey, 7 - 10 March 2018

XXXV. **Newborn Screening for Cystic Fibrosis in Turkey: The View From the Genetic Disease Diagnosis center**
BOGA İ., BİŞGİN A., TUĞ BOZDOĞAN S., SÖNMEZLER Ö.
Erciyes Tıp Genetik Günleri 2018, Turkey, 07 March 2018

XXXVI. **The evaluation of a new NGS system (GeneReader NGS systems) in clinical use of cancer diagnostics: The first report**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ.
ESHG 50th Annual Meeting, 27 May 2017

XXXVII. **Kolorektal Kanserde Yeni Nesil Sekanslamayla (NGS) Yapılan Moleküler Genetik Tetkiklerin KlinikopatolojikBulgularla İlişkisi**
RENCÜZOĞULLARI A., BİŞGİN A., ERDOĞAN K. E., DORAN F., YALAV O., boğa İ., SÖNMEZLER Ö., ERAY İ. C., ALABAZ Ö.
16.TÜRK KOLON VE REKTUM CERRAHİSİ KONGRESİ, Turkey, 16 - 20 May 2017

XXXVIII. **Tümör Spesifik Mutasyonların Tespitinde Yeni NGS Sistemi GeneReader NGS Systems Validasyonu Örnekleme Optimizasyonları ve Genetik Varyantların Biyoinformatik Analizi**
BİŞGİN A., SÖNMEZLER Ö., BOGA İ.
XII. Ulusal Tıbbi Genetik Kongresi, Turkey, 5 - 09 October 2016

Metrics

Publication: 47
Citation (WoS): 19
Citation (Scopus): 20
H-Index (WoS): 3
H-Index (Scopus): 3

Non Academic Experience

Çukurova Üniversitesi AGENTEM (Adana Genetik Hastalıklar Tanı ve Tedavi Merkezi)
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