



ÇAĞRI ŞAKALAR

ID: 56776308192 | **Work permit:** Turkish | **Date of birth:** 18/05/1981 |

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ABOUT ME

I study on cancer molecular biology and molecular diagnostics. I did my PhD in Max Planck Institute of Molecular and Cellular Biology in Dresden, Germany on epigenetic regulation of yeast chromatin. I did my postdoctoral studies on cancer immunotherapy in Cleveland Clinic Lerner Research Institute in USA. I studied in Erciyes University Medical School as an associate professor and completed TÜBİTAK projects on the production of monoclonal antibodies targeting ovarian cancer. I am currently working as an R&D Director in Eryigit Medical Devices R&D Center and in Sentebiolab Genetik.

I am currently working on projects dealing with early diagnosis of colorectal cancer (CRC) and gastric cancer using stool and serum specimens from human patients and volunteers. For colorectal cancer, we are monitoring methylation profile of CpG regions of 10 genes and use this information for early diagnosis of colorectal cancer. We have a similar approach for gastric cancer. We also work on the utilization of mutation screening for early diagnosis of cancer. We have reached 95% sensitivity and specificity for CRC using dual matrix approach. We have also started projects on the early diagnosis of lung cancer and ovarian cancer.

WORK EXPERIENCE

POSTDOCTORAL RESEARCHER – CLEVELAND CLINIC – 15/08/2009 – 15/08/2012 – CLEVELAND, UNITED STATES

Postdoctoral research on ovarian cancer immunotherapy and recombinant cancer vaccines in mouse models

PH.D. – THE MAX PLANCK INSTITUTE OF MOLECULAR CELL BIOLOGY AND GENETICS (MPI-CBG) – 15/08/2003 – 15/08/2007 – DRESDEN, GERMANY

PhD study on epigenetic regulation and histone variants and JmjC domain protein complexes in *S. pombe* model

ASSISTANT PROFESSOR – ERCIYES UNIVERSITY MEDICAL SCHOOL – 15/05/2012 – 15/09/2014 – KAYSERİ, TÜRKİYE

Research projects and grants on production of monoclonal antibodies and cancer molecular biology

ASSOCIATE PROFESSOR – ERCIYES UNIVERSITY SCHOOL OF MEDICINE – 15/09/2014 – 01/09/2016 – KAYSERİ, TÜRKİYE

Research projects and grants on production of monoclonal antibodies and cancer molecular biology

RESEARCH AND DEVELOPMENT SPECIALIST – ANTIMİKROP R&D AND BIOCIDAL ANALYSIS CENTER – 15/06/2020 – 01/08/2022 – ANKARA, TÜRKİYE

Performing biocidal analysis for SARS-CoV-2 for instruments and products

First time biocidal analysis for the eradication of SARS-CoV-2 in room air in Türkiye

Establishment of new biocidal methods according to ISO standards

R&D DIRECTOR (MOLECULAR BIOLOGY AND BIOTECHNOLOGY) - ERYİĞİT MEDICAL DEVICES R&D CENTER -
15/08/2022 - Current - ANKARA, TÜRKİYE

Writing and running R&D grants and projects

Development of early diagnosis kits for Colorectal Cancer and Gastric Cancer for the first time in Türkiye

Research Laboratory Director

R&D DIRECTOR - SENTEBIOLAB GENETİK - 10/10/2022 - Current - ANKARA, TÜRKİYE

Molecular Tools for Cancer Early Diagnosis

● EDUCATION AND TRAINING

15/09/1999 - 15/06/2003 Ankara, Türkiye

BACHELOR'S DEGREE Bilkent University

Website <https://w3.bilkent.edu.tr/www/> | **Level in EQF** EQF level 6

15/08/2003 - 28/12/2007 Dresden, Germany

PH.D. The Max Planck Institute of Molecular Cell Biology and Genetics, Dresden University of Technology

Epigenetic regulation of Chromatin, Protein Complexes

● LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

2016

[**The combination of thymoquinone and paclitaxel shows anti-tumor activity through the interplay with apoptosis network in triple-negative breast cancer**](#)

Çağrı Şakalar, Kenan İzgi, Banu İskender, Sedat Sezen, Huriye Aksu, Mustafa Çakır, Büşra Kurt, Ali Turan, Halit Canatan

Journal Name: Tumour Biol.

2009

[**The Schizosaccharomyces pombe JmjC-Protein, Msc1, Prevents H2A.Z Localization in Centromeric and Subtelomeric Chromatin Domains**](#)

Luke Buchanan, Mickaël Durand-Dubief, Assen Roguev, Cagri Sakalar, Brian Wilhelm, Annelie Strålfors, Anna Shevchenko, Rein Aasland, Andrej Shevchenko, Karl Ekwall, A Francis Stewart

Journal Name: Plos Genetics

2013

[Pronounced transcriptional regulation of apoptotic and TNF-NF-kappa-B signaling genes during the course of thymoquinone mediated apoptosis in HeLa cells](#)

Cagri Sakalar, Merve Yuruk, Tugba Kaya, Metin Aytekin, Salih Kuk, Halit Canatan

Journal Name: Molecular and Cellular Biochemistry

2008

[Chromatin Central: towards the comparative proteome by accurate mapping of the yeast proteomic environment](#)

Anna Shevchenko, Assen Roguev, Daniel Schaft, Luke Buchanan, Bianca Habermann, Cagri Sakalar, Henrik Thomas, Nevan J Krogan, Andrej Shevchenko, A Francis Stewart

2012

[Autoimmunity to uroplakin II causes cystitis in mice: a novel model of interstitial cystitis](#)

Cengiz Z Altuntas, Firouz Daneshgari, Cagri Sakalar, Esen Goksoy, M Fatih Gulen, Michael Kavran, Jun Qin, Xiaoxia Li, Vincent K Tuohy

2013

[Kanser immün terapi ve monoklonal antikolar](#)

Çağrı Şakalar, Kenan İzgi, Halit Canatan

2012

[Connective tissue and its growth factor CTGF distinguish the morphometric and molecular remodeling of the bladder in a model of neurogenic bladder](#)

Cengiz Z Altuntas, Firouz Daneshgari, Kenan İzgi, Fuat Bicer, Ahmet Ozer, Cagri Sakalar, Kerry O Grimberg, Ismail Sayin, Vincent K Tuohy

2015

[Myrtucommulone-A Induces both Extrinsic and Intrinsic Apoptotic Pathways in Cancer Cells](#)

Kenan İzgi, Banu Iskender, Johann Jauch, Sedat Sezen, Mustafa Cakir, Maël Charpentier, Halit Canatan, Cagri Sakalar

2013

[A novel murine model of chronic prostatitis/chronic pelvic pain syndrome \(CP/ CPPS\) induced by immunization with a spermine binding protein \(p25\) peptide](#)

Cengiz Z Altuntas, Firouz Daneshgari, Elias Veizi, Kenan İzgi, Fuat Bicer, Ahmet Ozer, Kerry O Grimberg, Bakytzhan Bakhautdin, Cagri Sakalar, Cemal Tasdemir, Vincent K Tuohy

2015

[The effects of streptozotocin-induced diabetes on ghrelin expression in rat testis: biochemical and immunohistochemical study](#)

Mehmet F Sönmez, Derya Karabulut, Eser Kilic, Hilal Akalin, Cagri Sakalar, Yusuf Gunduz, Ayça Kara, Munis Dunder

2013

[Higher frequency of rs4977574 \(the G Allele\) on chromosome 9p21. 3 in patients with myocardial infarction as revealed by PCR-RFLP analysis](#)

Cagri Sakalar, Esra Gurbuz, Nihat Kalay, Mehmet Gungor Kaya

2016

[Priming hMSCs with a putative anti-cancer compound, myrtucommulone-a: a way to harness hMSC cytokine expression via modulating PI3K/Akt pathway?](#)

Banu Iskender, Kenan Izgi, Cagri Sakalar, Halit Canatan

2012

[Experimental autoimmune breast failure: a model for lactation insufficiency, postnatal nutritional deprivation, and prophylactic breast cancer vaccination](#)

Pavani Kesaraju, Ritika Jaini, Justin M Johnson, Cengiz Z Altuntas, Jessica J Gruden, Cagri Sakalar, Vincent K Tuohy

2023

[Inactivation of airborne SARS-CoV-2 by thyme volatile oil vapor phase](#)

Çağrı Şakalar, Murat Ertürk

Journal Name: Journal of Virological Methods

2016

[Regulation of Murine Ovarian Epithelial Carcinoma by Vaccination against the Cytoplasmic Domain of Anti-Müllerian Hormone Receptor II](#)

Cagri Sakalar, Suparna Mazumder, Justin M Johnson, Cengiz Z Altuntas, Ritika Jaini, Robert Aguilar, Sathyamangla V Naga Prasad, Denise C Connolly, Vincent K Tuohy

Journal Name: Journal of Immunology Research

2022

[Rapid thermal inactivation of aerosolized SARS-CoV-2](#)

Murat Canpolat, Serhat Bozkurt, Çağrı Şakalar, Ahmet Yılmaz Çoban, Deniz Karaçaylı, Emre Toker

Journal Name: Journal of Virological Methods

2025

[Production of novel peptide-targeting antibodies for anti-Müllerian hormone receptor 2 and induction of cytotoxicity in ovarian cancer cells](#)

Çağrı Şakalar, Büşra Kurt, Sedat Sezen, Savaş Kaya

Journal Name: Scandinavian Journal of Immunology

2025

SFRP2 and RPRM as methylation based serum biomarkers for the detection of gastric cancer.

Authors: Dede S, Şakalar Ç, Yılmaz B, Çubukcı G, Acar M, Yavuz A, Aksu G, Altın S, Yüksel O, Ayaz F, Aydemir E | **Journal Name:** Discover Oncology

2026

Early-Stage Detection of Colorectal Cancer with a Dual-Matrix DNA Methylation qPCR Panel: A Clinical Cohort

This study is under peer review. Dual analysis of stool and serum from the same patient. Increased sensitivity and specificity reaching 95%.

Authors: Çağrı ŞAKALAR, Gamze ÇUBUKCI, Serap DEDE, Saygın ALTINER, Aydın YAVUZ, Gizem AKSU3, Osman Yüksel, Rabia Hande ŞAHİNGÖZ, Hatice KAYA, Mevlüt Recep PEKÇİCİ, Abdullah DURHAN, Hatun Betül GÜRLEVİK, Ahmet Çağrı BÜYÜKKASAP, Ahmet Cihangir EMRAL | **Journal Name:** BMC Cancer

● PROJECTS

01/09/2013 – 01/09/2016

Production of monoclonal antibodies targeting Anti Mullerian Hormone Receptor 2 (AMHR2) protein and test of efficacy on ovarian cancer cell lines

01/06/2015 – 01/09/2016

Production of Novel Her-2 Specific Monoclonal Antibodies for the Diagnosis and Therapy of Her-2 Positive Breast Cancer

11/01/2015 – 01/09/2016

Determination of the Effect of Thymoquinone on the Apoptosis Associated miRNA Profile in Breast Cancer Cells

01/06/2012 – 09/09/2013

Recombinant Production of Extracellular and Cytoplasmic Domains of AMHR2 to Use in Cancer Immunotherapy against Ovarian Cancer

01/01/2014 – 01/12/2015

Investigation of the Impact of Thymoquinone on Insulin Signalling Pathways in a Human Cell Line (Insulin Resistance) Model

27/12/2023 – 30/11/2025

DEVELOPMENT OF A METHYLATION SPECIFIC CANCER EARLY DIAGNOSIS QPCR KIT FOR COLORECTAL CANCER

TUBITAK 1501 Industry R&D Grant. Methylation profile of 10 CpG regions have been analyzed using stool and serum specimens from colorectal cancer patients by methylation based qPCR. Sensitivity and specificity reaching to 95%.

08/10/2024 – CURRENT

DEVELOPMENT OF A HIGHLY SENSITIVE QPCR DIAGNOSTIC KIT FOR THE DETECTION OF KRAS MUTATIONS COMMON IN COLORECTAL, PANCREAS AND LUNG CANCERS

TUBITAK 1501 Industry R&D Grant.

01/11/2024 – CURRENT

DEVELOPMENT OF A METHYLATION SPECIFIC QPCR KIT FOR EARLY DIAGNOSIS OF GASTRIC CANCER

TUBITAK 1501 Industry R&D Grant.