

## Prof. Dr. AJDA ÇOKER GÜRKAN

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji Anabilim Dalı, Türkiye 2005 - 2009

Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji Anabilim Dalı, Türkiye 2002 - 2005

Lisans, Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Biyoloji Bölümü, Türkiye 1998 - 2002

### Yabancı Diller

İngilizce, C1 İleri

### Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, Eğiticinin Eğitimi Mesleki Eğitim , Biruni Üniversitesi, Biruni Üniversitesi, 2021

Eğitim Yönetimi ve Planlama, İvest İstanbul, Entrepreneurship Gateway Hub of İstanbul Girişimcilik , Şehir Üniversitesi, Şehir Üniversitesi, 2017

Eğitim Yönetimi ve Planlama, KOSGEB Uygulamalı Girişimcilik Sertifikası Girişimcilik , KOSGEB, KOSGEB, 2016

Eğitim Yönetimi ve Planlama, İstanbul Teknik Üniversitesi (İTÜ) Çekirdek Erken Aşama Kuluçka Merkezi Girişimcilik Eğitimi Mesleki Eğitim , İstanbul Teknik Üniversitesi, İstanbul Teknik Üniversitesi, 2016

### Yaptığı Tezler

Doktora, İnsan büyüme hormonunun (BH-N) klonlanması, ekspresyonu ve izole büyüme hormonu eksikliği sendromunun genetik karakterizasyonu, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji Anabilim Dalı, 2009

Yüksek Lisans, Koroner arter hastalığı ile IL-1 reseptör antagonist gen polimorfizminin moleküler düzeyde incelenmesi, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, 2005

### Araştırma Alanları

Temel Bilimler

## Akademik Unvanlar / Gorevier

Prof. Dr., Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Biyoloji Bölümü, 2022 - Devam Ediyor

Prof. Dr., İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2019 - 2021

Doç. Dr., İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2014 - 2019

Yrd. Doç. Dr., İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2010 - 2014

Araştırma Görevlisi, İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2008 - 2010

## Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Biruni Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2021 - 2022

Bölüm Kalite Komisyonu Üyesi, İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2019 - 2021

## Verdiği Dersler

Genetik II, Lisans, 2021 - 2022

Hücre Kültürü Teknikleri , Lisans, 2021 - 2022

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The Suppressive Effect of Novel Hydrazones-Tethered Imidazoles in HCT-116 and HT-29 Colorectal Cancer Cells: Synthesis, Biological Activity and Molecular Modeling Studies**  
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- II. **Epibrassinolide impaired colon tumor progression and induced autophagy in SCID mouse xenograft model via acting on cell cycle progression without affecting endoplasmic reticulum stress observed in vitro**  
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- III. **The protective impact of growth hormone against rotenone-induced apoptotic cell death via acting on endoplasmic reticulum stress and autophagy axis**  
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- IV. **Palbociclib negatively regulates fatty acid synthesis due to upregulation of AMPK alpha and miR-33a levels to increase apoptosis in Panc-1 and MiaPaCa-2 cells**  
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- V. **miR27a, a fine-tuning molecule, interacts with growth hormone (GH) signaling and ornithine decarboxylase (ODC) via targeting STAT5**  
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- VI. **In Vitro Investigations of miR-33a Expression in Estrogen Receptor-Targeting Therapies in Breast Cancer Cells**  
Ozfiliz-Kilbas P., Sonmez O., Obakan-Yerlikaya P., Coker-Gurkan A., Palavan-Unsal N., Uysal-Onganer P., Arisan E. D.  
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- VII. **Epibrassinolide prevents tau hyperphosphorylation via GSK3 beta inhibition in vitro and improves**

**Caenorhabditis elegans lifespan and motor deficits in combination with roscovitine**

Yerlikaya P. O., Arisan E. D., Gurkan A., Okumus O. O., Yenigun T., Ozbey U., Kara M., Unsal N. P.  
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- VIII. **Atiprimod triggered apoptotic cell death via acting on PERK/eIF2 alpha/ATF4/CHOP and STAT3/NF-Kappa B axis in MDA-MB-231 and MDA-MB-468 breast cancer cells**  
Coker-Gurkan A., Can E., Sahin S., Obakan-Yerlikaya P., Arisan E.  
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- IX. **Proinflammatory cytokine profile is critical in autocrine GH-triggered curcumin resistance engulf by atiprimod cotreatment in MCF-7 and MDA-MB-231 breast cancer cells**  
Coker-Gurkan A., Ozakaltun B., Akdeniz B., Ergen B., Obakan-Yerlikaya P., AKKOÇ T., Arisan E.  
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- X. **Specific c-Jun N-Terminal Kinase Inhibitor, JNK-IN-8 Suppresses Mesenchymal Profile of PTX-Resistant MCF-7 Cells through Modulating PI3K/Akt, MAPK and Wnt Signaling Pathways**  
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- XI. **The role of the PI3K/AKT/mTOR signaling axis in the decision of the celestrol-induced cell death mechanism related to the lipid regulatory pathway in prostate cancer cells**  
Arisan E. D., Rencuzogullari O., Coban M., Sevgin B., Obakan-Yerlikaya P., Coker-Gurkan A., Palavan-Unsal N.  
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- XII. **Epibrassinolide-induced autophagy occurs in an Atg5-independent manner due to endoplasmic stress induction in MEF cells**  
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- XIII. **Palbociclib, a selective CDK4/6 inhibitor, restricts cell survival and epithelial-mesenchymal transition in Panc-1 and MiaPaCa-2 pancreatic cancer cells**  
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- XIV. **The molecular targets of diclofenac differs from ibuprofen to induce apoptosis and epithelial mesenchymal transition due to alternation on oxidative stress management p53 independently in PC3 prostate cancer cells**  
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- XV. **Atiprimod induce apoptosis in pituitary adenoma: Endoplasmic reticulum stress and autophagy pathways**  
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- XVI. **Inhibition of extracellular signal-regulated kinase potentiates the apoptotic and antimetastatic effects of cyclin-dependent kinase inhibitors on metastatic DU145 and PC3 prostate cancer cells**  
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- XVII. **Curcumin prevented human autocrine growth hormone (GH) signaling mediated NF-kappa B activation and miR-183-96-182 cluster stimulated epithelial mesenchymal transition in T47D breast cancer cells**  
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- XVIII. **Diclofenac induced apoptosis via altering PI3K/Akt/MAPK signaling axis in HCT 116 more efficiently compared to SW480 colon cancer cells**  
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- XIX. **Cyclin-dependent kinase inhibitors, roscovitine and purvalanol, induce apoptosis and autophagy**

**related to unfolded protein response in HeLa cervical cancer cells**

Ozfiliz-Kilbas P., Sarikaya B., Obakan-Yerlikaya P., Coker-Gurkan A., Arisan E. D., Temizci B., Palavan-Unsal N.  
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- XX. **Curcumin inhibits autocrine growth hormone-mediated invasion and metastasis by targeting NF-kappa B signaling and polyamine metabolism in breast cancer cells**  
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- XXI. **Inhibition of autophagy enhances DENSp<sup>m</sup>-induced apoptosis in human colon cancer cells in a p53 independent manner**  
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- XXII. **Calreticulin is a fine tuning molecule in epibrassinolide-induced apoptosis through activating endoplasmic reticulum stress in colon cancer cells**  
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- XXIII. **DENSp<sup>m</sup> overcame Bcl-2 mediated resistance against Paclitaxel treatment in MCF-7 breast cancer cells via activating polyamine catabolic machinery**  
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- XXIV. **mTOR is a fine tuning molecule in CDK inhibitors-induced distinct cell death mechanisms via PI3K/AKT/mTOR signaling axis in prostate cancer cells**  
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- XXV. **The inhibition of PI3K and NF kappa B promoted curcumin-induced cell cycle arrest at G2/M via altering polyamine metabolism in Bcl-2 overexpressing MCF-7 breast cancer cells**  
Berrak O., Akkoc Y., Arisan E. D., Coker-Gurkan A., Obakan-Yerlikaya P., Palavan-Unsal N.  
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- XXVI. **Epibrassinolide alters PI3K/MAPK signaling axis via activating Foxo3a-induced mitochondria-mediated apoptosis in colon cancer cells**  
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- XXVII. **SILAC-Based Mass Spectrometry Analysis Reveals That Epibrassinolide Induces Apoptosis via Activating Endoplasmic Reticulum Stress in Prostate Cancer Cells**  
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- XXVIII. **Fetuin-A 742 (C/T) and 766 (C/G) polymorphic sites are associated with increased risk of myocardial infarction in older patients (40 years of age)**  
Coker-Gurkan A., Coskun D., Arisan E. D., Obakan P., Soylu O., Unsal N. P.  
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- XXIX. **Purvalanol induces endoplasmic reticulum stress-mediated apoptosis and autophagy in a time-dependent manner in HCT116 colon cancer cells**  
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- XXX. **Polyamines modulate the roscovitine-induced cell death switch decision autophagy vs. apoptosis in MCF-7 and MDA-MB-231 breast cancer cells**  
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- XXXI. **Inhibition of PI3K signaling triggered apoptotic potential of curcumin which is hindered by Bcl-2 through activation of autophagy in MCF-7 cells**  
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- XXXII. **Roscovitine-treated He La cells finalize autophagy later than apoptosis by downregulating Bcl-2**  
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MOLECULAR MEDICINE REPORTS, cilt.11, sa.3, ss.1968-1974, 2015 (SCI-Expanded)
- XXXIII. **Lack of functional p53 renders DENSpM-induced autophagy and apoptosis in time dependent manner in colon cancer cells**  
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- XXXIV. **Epibrassinolide-induced apoptosis regardless of p53 expression via activating polyamine catabolic machinery, a common target for androgen sensitive and insensitive prostate cancer cells**  
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- XXXV. **Inhibition of autophagy by 3-MA potentiates purvalanol-induced apoptosis in Bax deficient HCT 116 colon cancer cells**  
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- XXXVI. **Cathepsin K analysis in a pycnodysostosis cohort: demographic, genotypic and phenotypic features**  
Arman A., Bereket A., Çoker A., Şimşek Kiper P. Ö., Güran T., Özkan B., Atay Z., Akcay T., Haliloglu B., Boduroglu K., et al.  
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- XXXVII. **Purvalanol A is a strong apoptotic inducer via activating polyamine catabolic pathway in MCF-7 estrogen receptor positive breast cancer cells**  
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- XXXVIII. **CDK Inhibitors Induce Mitochondria-mediated Apoptosis Through the Activation of Polyamine Catabolic Pathway in LNCaP, DU145 and PC3 Prostate Cancer Cells**  
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- XXXIX. **Bag-1L is a Stress-withstand Molecule Prevents the Downregulation of Mcl-1 and c-Raf Under Control of Heat Shock Proteins in Cisplatin Treated HeLa Cervix Cancer Cells**  
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- XL. **Downregulation of c-Myc mediated ODC expression after purvalanol treatment is under control of upstream MAPK signaling axis in MCF-7 breast cancer cells**  
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- XLI. **Assessment of Interleukin-1 Gene Cluster Polymorphisms in Lone Atrial Fibrillation: New Insight into the Role of Inflammation in Atrial Fibrillation**  
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- XLII. **Multiple sclerosis: association with the interleukin-1 gene family polymorphisms in the Turkish population**  
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- XLIII. **Lack of association between IL-6 gene polymorphisms and rheumatoid arthritis in Turkish population**  
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- XLV. **Silencing of the polyamine catabolic key enzyme SSAT prevents CDK inhibitor-induced apoptosis in Caco-2 colon cancer cells**  
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- XLVI. **Polyamine depletion enhances the roscovitine-induced apoptosis through the activation of mitochondria in HCT116 colon carcinoma cells**  
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- XLVII. **Lack of association between IL-1 and IL-6 gene polymorphisms and myocardial infarction in Turkish population**  
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- XLVIII. **Raman micro-spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**  
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- XLIX. **Raman micro-spectroscopic analysis of cultured HCT116 colon cancer cells in the presence of roscovitine**  
Akyuz S., ÖZEL A., BALCI K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.  
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- L. **Novel Growth Hormone Receptor Gene Mutation in a Patient with Laron Syndrome**  
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- LI. **Characterization of GH-1 Mutations in Children with Isolated Growth Hormone Deficiency in the Turkish Population**  
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- LIII. **Interleukin-1B (-511) gene polymorphism is associated with acute coronary syndrome in the Turkish population**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Lack of evidence for the association of ornithine decarboxylase (+ 316 G> A), spermidine/spermine acetyl transferase (-1415 T> C) gene polymorphisms with calcium oxalate stone disease**  
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## Kitap & Kitap Bölümleri

### I. Applications of aptamer in cancer therapy

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### II. Functional foods enhancing immunity

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### III. Breast Cancer and Flavonoids as Treatment Strategy

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### IV. Aging-Related Diseases and Autophagy

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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

### I. The identification of protein expression profile of PC3 prostate cancer and PNT1A prostate epithelial cells following anti-obesity drug Orlistat treatment regardless of AMPK signaling

ÖZFİLİZ KILBAŞ P., NEBİLER E., ARISAN E. D., ÇOKER GÜRKAN A., OBAKAN YERLİKAYA P., ÜNSAL Z. N.

6th International BAU Drug Design Congress, İstanbul, Türkiye, 13 - 15 Aralık 2018, ss.120

## Desteklenen Projeler

Çoker Gürkan A., TÜBİTAK Projesi, SELEX Yöntemi ile Büyüme Hormonu Salgılatıcı Hormon (Ghrh) Sinyalini Engelleyen Aptamerlerin Sentezi, Karakterize Edilmesi, Anti-Proliferatif, Anti-Karsinojenik Etkisinin Prostat, Meme, Kolon ve Servikal Kanseri Hücrelerinde İrdelenmesi, 2018 - 2021

Çoker Gürkan A., TÜBİTAK Projesi, Büyüme Hormonu Genindeki A13S ve F166 Delesyon Mutasyonlarının Hücre Büyüme Ve Farklılaşması Üzerine Etkisinde Büyüme Hormonu Ve Ornitin Dekarbosilaz Gen Anlatımları İle İlişkili Mirna Profillerinin Rolünün Hek293 Hücre Hattında Gösterilmesi, 2017 - 2018

Çoker Gürkan A., TÜBİTAK Projesi, Curcumin in terapötik etkinliğinin otokrin büyüme hormonu sinyal yolağı aracılığı ile farklı meme kanseri hücrelerinde poliamin metabolizması irdelenerek incelenmesi, 2014 - 2017

Çoker Gürkan A., TÜBİTAK Projesi, N1 N11 Dietilnorspermin Denspm in Hct116 Ve Sw480 Kolon Kanseri Hücrelerinde Otofaji Üzerine Etkisinin Poliamin Metabolizması Açısından Araştırılması, 2013 - 2014

## Metrikler

Yayın: 61

Atf (WoS): 593

Atf (Scopus): 632

H-İndeks (WoS): 14

H-İndeks (Scopus): 15