

# **Prof. ABDULLAH YALÇIN**

## **Personal Information**

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## **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABI-4164-2020

ScopusID: 36857831000

Yoksis Researcher ID: 160169

## **Education Information**

Doctorate, University of Louisville, School of Medicine, United States Of America 2002 - 2008

Doctorate, Bursa Uludağ University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Biyokimya (Veteriner) (Dr), Turkey 1998 - 2002

Undergraduate, Bursa Uludağ University, VETERİNER FAKÜLTESİ, Veteriner Pr., Turkey 1994 - 1998

## **Dissertations**

Doctorate, Role of 6-Phosphofructo-2-Kinase (PFKFB3) in the Regulation of Cellular Proliferation, University of Louisville, Tıp Fakültesi Biyokimya Ve Moleküler Biyoloji, 2008

Doctorate, Nefritisli köpeklerin serum ve idrar protein fraksiyonlarının elektroforetik olarak ayrımı ve idrar proteinlerinin immünoblot tekniği ile incelenmesi, Bursa Uludağ University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Biyokimya (Veteriner) (Dr), 2002

## **Research Areas**

Health Sciences, Natural Sciences

## **Academic Titles / Tasks**

Professor, Bursa Uludağ University, VETERİNER FAKÜLTESİ, VETERİNER HEKİMLİĞİ TEMEL BİLİMLER BÖL., 2018 - Continues

Associate Professor, Bursa Uludağ University, VETERİNER FAKÜLTESİ, VETERİNER HEKİMLİĞİ TEMEL BİLİMLER BÖL., 2011 - 2018

Lecturer PhD, University of Louisville, School Of Medicine, 2012 - 2014

Research Assistant, Bursa Uludağ University, VETERİNER FAKÜLTESİ, VETERİNER HEKİMLİĞİ TEMEL BİLİMLER BÖL., 1998 - 2011

## **Courses**

## Advising Theses

Yalçın A., The role of 6-phosphofructo-2-kinase / fructose-2,6-bisphosphatase enzymes in epithelial-mesenchymal transition induced by transforming growth factor  $\beta$ -1, Doctorate, T.HAZAL(Student), 2020

Yalçın A., Role of PFKFB2 in the oncogenic transformation of pancreatic epithelial cells, Doctorate, S.CAN(Student), 2018

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

- I. **Transforming growth factor  $\beta$ 1 upregulates 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatase-4 expression in A549 and MCF-10A cells**  
Altunok T. H., Muchut R. J., Iglesias A. A., YALÇIN A.  
Cell Biochemistry and Function, vol.41, no.8, pp.1220-1229, 2023 (SCI-Expanded)
- II. **Increased expression of 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatase-3 is required for growth of mouse embryonic stem cells that are undergoing differentiation**  
GÜZEL S., Gurpinar Y., Altunok T. H., YALÇIN A.  
Cytotechnology, vol.75, no.1, pp.27-38, 2023 (SCI-Expanded)
- III. **Expression of Pfkfb isoenzymes during in vitro differentiation of mouse embryonic stem cells into insulin-producing cells**  
GÜZEL S., YALÇIN A., Gurpinar Y., GÜLER S.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.53, no.6, pp.1565-1573, 2023 (SCI-Expanded)
- IV. **Expression of dual-specificity phosphatases in TGF $\beta$ 1-induced EMT in SKOV3 cells**  
GÜLER S., YALÇIN A.  
Turkish Journal of Medical Sciences, vol.53, no.3, pp.640-646, 2023 (SCI-Expanded)
- V. **Upregulation of dual-specificity phosphatase-26 is required for transforming growth factor  $\beta$ 1(TGF $\beta$ 1)-induced Epithelial-mesenchymal transition in A549 and Panc1 cells.**  
Guler S., Zik B., Yalcin A.  
Molecular biology reports, vol.49, no.11, pp.10195-10204, 2022 (SCI-Expanded)
- VI. **Overexpression of dual-specificity phosphatases 4 and 13 attenuates transforming growth factor beta 1-induced migration and drug resistance in A549 cells in vitro**  
GÜLER S., Altunok T. H., Sarioglu A., ZIK B., Asmaz D., Kayapunar N., Sonmez O., Tepedelen B., YALÇIN A.  
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.606, pp.35-41, 2022 (SCI-Expanded)
- VII. **Simultaneous inhibition of PFKFB3 and GLS1 selectively kills KRAS transformed pancreatic cells**  
Ozcan S. C., Mutlu A., Altunok T. H., Gurpinar Y., Sarioglu A., GÜLER S., Muchut R. J., Iglesias A. A., ÇELİKLER KASIMOĞULLARI S., Campbell P. M., et al.  
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.571, pp.118-124, 2021 (SCI-Expanded)
- VIII. **PFKFB2 regulates glycolysis and proliferation in pancreatic cancer cells**  
Ozcan S. C., Sarioglu A., Altunok T. H., AKKOÇ A., GÜZEL S., GÜLER S., Imbert-Fernandez Y., Muchut R. J., Iglesias A. A., Gurpinar Y., et al.  
MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.470, pp.115-129, 2020 (SCI-Expanded)
- IX. **6-phosphofructo-2-kinase/fructose 2,6-bisphosphatase-3 is required for transforming growth factor beta 1-enhanced invasion of Panci cells in vitro**  
YALÇIN A., Solakoglu T. H., Ozcan S. C., GÜZEL S., Peker S., ÇELİKLER KASIMOĞULLARI S., Balaban B. D., Sevinc E., Gurpinar Y., Chesney J. A.  
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.484, no.3, pp.687-693, 2017 (SCI-Expanded)
- X. **6-Phosphofructo-2-kinase (PFKFB3) promotes cell cycle progression and suppresses apoptosis via Cdk1-mediated phosphorylation of p27**

- YALÇIN A., Clem B. F., Imbert-Fernandez Y., Ozcan S. C., Peker S., O'Neal J., Klarer A. C., Clem A. L., Telang S., Chesney J.  
 CELL DEATH & DISEASE, vol.5, 2014 (SCI-Expanded)
- XI. **Cytochrome c oxidase is activated by the oncoprotein Ras and is required for A549 lung adenocarcinoma growth**  
 Telang S., Nelson K. K., Siow D. L., YALÇIN A., Thornburg J. M., Imbert-Fernandez Y., Klarer A. C., Farghaly H., Clem B. F., Eaton J. W., et al.  
 MOLECULAR CANCER, vol.11, 2012 (SCI-Expanded)
- XII. **A novel small molecule antagonist of choline kinase-alpha that simultaneously suppresses MAPK and PI3K/AKT signaling**  
 Clem B. F., Clem A. L., YALÇIN A., Goswami U., Arumugam S., Telang S., Trent J. O., Chesney J.  
 ONCOGENE, vol.30, no.30, pp.3370-3380, 2011 (SCI-Expanded)
- XIII. **Relationship with gamma glutamyl transferase activity and glutaraldehyde coagulation test of serum immunoglobulin G concentration in newborn goat kids**  
 YALÇIN E., TEMİZEL E. M., YALÇIN A., Carkungoz E.  
 SMALL RUMINANT RESEARCH, no.1, pp.61-63, 2010 (SCI-Expanded)
- XIV. **Selective inhibition of choline kinase simultaneously attenuates MAPK and PI3K/AKT signaling**  
 YALÇIN A., Clem B., Makoni S., Clem A., Nelson K., Thornburg J., Siow D., Lane A. N., Brock S. E., Goswami U., et al.  
 ONCOGENE, vol.29, no.1, pp.139-149, 2010 (SCI-Expanded)
- XV. **Nuclear Targeting of 6-Phosphofructo-2-kinase (PFKFB3) Increases Proliferation via Cyclin-dependent Kinases**  
 YALÇIN A., Clem B. F., Simmons A., Lane A., Nelson K., Clem A. L., Brock E., Siow D., Wattenberg B., Telang S., et al.  
 JOURNAL OF BIOLOGICAL CHEMISTRY, vol.284, no.36, pp.24223-24232, 2009 (SCI-Expanded)
- XVI. **Regulation of glucose metabolism by 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatases in cancer**  
 YALÇIN A., Telang S., Clem B., Chesney J.  
 EXPERIMENTAL AND MOLECULAR PATHOLOGY, vol.86, no.3, pp.174-179, 2009 (SCI-Expanded)
- XVII. **Small-molecule inhibition of 6-phosphofructo-2-kinase activity suppresses glycolytic flux and tumor growth**  
 Clem B., Telang S., Yalcin A., Meier J., Simmons A., Rasku M. A., Arumugam S., Dean W. L., Eaton J., et al.  
 MOLECULAR CANCER THERAPEUTICS, vol.7, no.1, pp.110-120, 2008 (SCI-Expanded)
- XVIII. **Ras transformation requires metabolic control by 6-phosphofructo-2-kinase**  
 Telang S., YALÇIN A., Clem A. L., Bucala R., Lane A. N., Eaton J. W., Chesney J.  
 ONCOGENE, vol.25, no.55, pp.7225-7234, 2006 (SCI-Expanded)
- XIX. **Targeted disruption of inducible 6-phosphofructo-2-kinase results in embryonic lethality**  
 Chesney J., Telang S., Yalcin A., Clem A., Wallis N., Bucala R.  
 BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.331, no.1, pp.139-146, 2005 (SCI-Expanded)
- XX. **Reference serum protein and lipoprotein fractions of ostriches (*Struthio camelus*) in Turkey**  
 Polat U., Cetin M., Turkyilmaz O., Yalcin A.  
 ONDERSTEPOORT JOURNAL OF VETERINARY RESEARCH, vol.71, no.1, pp.77-79, 2004 (SCI-Expanded)
- XXI. **Electrophoretic separation of urine proteins of healthy dogs and dogs with nephropathy and detection of some urine proteins of dogs using immunoblotting**  
 Yalcin A., Cetin M.  
 REVUE DE MEDECINE VETERINAIRE, vol.155, no.2, pp.104-112, 2004 (SCI-Expanded)
- XXII. **Effects of dietary carnitine supplementation on plasma carnitine and some serum biochemical parameters in lambs**  
 Cetin M., Petek M., Polat U., Yalcin A.  
 REVUE DE MEDECINE VETERINAIRE, vol.154, no.3, pp.195-198, 2003 (SCI-Expanded)
- XXIII. **Blood biochemical parameters in fertile and repeat breeder cows**  
 Cetin M., Dogan İ., Polat U., Yalcin A., Turkyilmaz O.  
 INDIAN JOURNAL OF ANIMAL SCIENCES, vol.72, no.10, pp.865-866, 2002 (SCI-Expanded)

## Articles Published in Other Journals

### I. Adiponectin and Its Protective Effects

GÜZEL S., YALÇIN A.

Journal of Biological & Environmental Sciences, vol.6, no.17, pp.135-139, 2012 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

### I. Overexpression of dual-specificity phosphatases 4 and 13 attenuates transforming growth factor beta 1-induced migration and drug resistance in A549 cells in vitro

GÜLER S., YALÇIN A., ZIK B.

NICHE 2022 15th National and 1st International Congress of Histology and Embryology, Turkey, 26 May 2022, pp.28

### II. Regulation of Tumor Cell Biology and Metabolism by 6-Phosphofructo-2-Kinases

YALÇIN A.

7. Multidisipliner Kanser Araştırma ve 1. Temel Onkoloji Kongresi, İzmir, Turkey, 11 - 14 October 2018

### III. Making insulin producing beta cells from mouseembryonic stem cells: new insight into treatment of diabetes mellitus

GÜZEL S., gürpınar y., ÖZCAN S. C., YALÇIN A.

I. ULUSLARARASI VETERİNER BİYOKİMYA VE KLİNİK BİYOKİMYA KONGRES, 12 April 2018

### IV. PFKFB2: Different roles of distinct splices

ÖZCAN S. C., balaban b. D., Solakoglu T. H., GÜZEL S., Chesney J. A., YALÇIN A.

ESMO Asia 2017, 17 - 19 November 2017, vol.28

### V. Investigation of the in vitro effects of some antibiotics on the purified Beta-glucosidases from the rat liver

YALÇIN A., Sevinc E., GÜZEL S., ÖZCAN S. C., McNally L., ŞAMLI H.

41 st FEBS Congress, 01 September 2016

### VI. Silencing of PFKFB2 reduces fructose 2 6 bisphosphate levels without affecting glycolysis in KRasG12V transformed pancreatic duct cells

YALÇIN A., ÖZCAN S. C., Campbell P. M., Chesney J., GÜZEL S., Sevinç E.

New Frontiers in Understanding Tumor Metabolism, 21 - 25 February 2016

### VII. Tümör Hücrelerinde Slug Ekspresyonunun PFKFB2 Tarafından Regülasyonu

YALÇIN A., ÖZCAN S. C., SEVİC E., GÜZEL S., CHESNEY J.

XXVII. ULUSAL BİYOKİMYA KONGRESİ, Turkey, 3 - 06 November 2015, vol.40

### VIII. Regulation of twist and slug by PFKFB2

YALÇIN A., ÖZCAN S. C., GÜZEL S., jason c.

European Cancer Congress, Vienna, Austria, 25 - 29 September 2015, vol.51, pp.5

### IX. A role for 6 phosphofructo 2 kinase in the epithelial mesenchymal transition of tumor cells

YALÇIN A., ÖZCAN S. C., GÜZEL S., TUĞBA HAZAL S., JASON C.

EACR-AACR-SIC Anticancer Drug Action and Drug Resistance: from Cancer Biology to the Clinic, Flores, Guatemala, 20 - 23 June 2015

### X. A role for 6 phosphofructo 2 kinase in the epithelial mesenchymal transition of tumor cells

YALÇIN A., ÖZCAN S. C., GÜZEL S., Solakoğlu T. H., ŞAMLI H., Chesney J.

EACR-AACR-SIC Special conference on Anticancer Drug Action and Drug Resistance: From Cancer biology to the clinic, 20 - 23 June 2015

### XI. PFKFB2 ve PFKFB3 Enzimlerinin Kık Hücrelerin Pluripotentliği ve Farklılaşmasındaki Rolleri

GÜZEL S., ÖZCAN S. C., BELENLİ D., GÜRPINAR Y., YALÇIN A.

VII. Veteriner ve Klinik Biyokimya Kongresi, Samsun, Turkey, 28 - 30 May 2015

### XII. 6 phosphofructo 2 kinases in cellular proliferation and epithelial mesenchymal transition

YALÇIN A.

EACR-sponsored 3rd Anticancer Agent Development Congress, 18 - 19 May 2015

XIII. **6 Fosfofrukto 2 kinaz Enzimlerinin Kök Hücre Biyolojisindeki Rolü**

GÜZEL S., ÖZCAN S. C., BELENLİ D., YALÇIN A.

IV. Uludağ Üniversitesi Bilgilendirme ve ARGE Günleri, Bursa, Turkey, 11 - 13 November 2014

XIV. **Tümör Hücrelerinde PFKFB3 Tarafından EMT Programının Regülasyonu**

BELENLİ D., GÜZEL S., ÖZCAN S. C., SOLAKOĞLU T. H., YALÇIN A.

Uludağ Üniversitesi IV. Bilgilendirme ve AR-GE Günleri, Bursa, Turkey, 11 - 13 November 2014

XV. **Tümör hücrelerinde PFKFB2 izoformları ve lokalizasyonları**

ÖZCAN S. C., BELENLİ D., GÜZEL S., MEHMET TARHAN S., YALÇIN A.

Uludağ Üniversitesi IV. Bilgilendirme ve ARGE Günleri, Bursa, Turkey, 11 - 13 November 2014

XVI. **Fructose 2 6 bisphosphate links glucose to survival and growth**

YALÇIN A., Imbert Fernandez Y., Clem A., Oneal J., Telang S., Clem B., Chesney J.

Metabolism, Diet, and Disease: Cancer and Metabolism, 28 - 30 May 2014, vol.2, pp.5

XVII. **PFKFB3 EMT'de Gereklidir**

YALÇIN A., ÖZCAN S. C., GÜLER S., Chesney J.

5.Multidisipliner Kanser Araştırma Kongresi, Muğla, Turkey, 23 - 27 April 2014

## Supported Projects

GÜLER S., ONGUNCAN O., YALÇIN A., Project Supported by Higher Education Institutions, KRAS Mutasyonlu Pankreas Kanserlerinde Metabolik Enzimlerle Antikanser İlaç Etkileşimlerinin Kombinasyonu, 2023 - Continues

YALÇIN A., BAYRAM E., GÜZEL S., GÜLER S., Project Supported by Higher Education Institutions, Pankreatik Duktal Adenokarsinom Hücrelerinin Glutaminaz İnhibisyonuna Duyarlığını Etkileyen Genlerin CRISPR/Cas9 Taraması ile Ortaya Çıkarılması, 2022 - Continues

YALÇIN A., Güler S., Diril K., TUBITAK Project, Identification of Metabolic Genes That Exhibits Synthetic Lethal Interaction with 6-Phosphofructo-2-Kinase/Fructose-2,6-Bisphosphatase-2 in Pancreatic Ductal Adenocarcinoma Cells, 2022 - 2024

GÜLER S., ZIK B., YALÇIN A., ÖZYİĞİT M. Ö., ASMAZ E. D., Project Supported by Higher Education Institutions, Farklı Kanser Türlerinde Capsaicin'nin Kemoterapotiklerle Kombinasyonun in vitro ve in vivo Etkileri, 2020 - 2023

Erbaykent Tepedelen B., Yalçın A., Güler S., Zik B., TUBITAK Project, Tgf- $\beta$  Tarafından İndüklenen Em'txxde Dusp'xxların Rolünün Araştırılması, 2018 - 2022

YALÇIN A., Project Supported by Higher Education Institutions, PFKFB2'nin Tümör Hücre Biyolojisindeki Rolünün Araştırılması, 2018 - 2020

Güler S., Yalçın A., Project Supported by Higher Education Institutions, Investigation of the Role of PFKFB2 in Tumor Cell Biology, 2017 - 2020

YALÇIN A., Project Supported by Higher Education Institutions, PFKFB3'ün Slug ile Etkileşiminin Araştırılması, 2015 - 2020

Yalçın A., Güzel S., Budak F., TUBITAK Project, ROLE OF PFKFB2 IN THE ONCOGENIC TRANSFORMATION OF PANCREATIC EPITHELIAL CELLS, 2014 - 2018

Cangül İ. T., Yalçın A., Project Supported by Higher Education Institutions, PFKFB3'ün Slug ile Etkileşiminin Araştırılması, 2015 - 2017

YALÇIN A., GÜZEL S., CANGÜL İ. T., ŞAMLI H., TUBITAK Project, Tümör Hücrelerinde PFKFB3 Tarafından ZEB1 Fonksiyonunun Regülasyonu, 2014 - 2017

Şamli H., Güzel S., Yalçın A., Dinçel D., Project Supported by Higher Education Institutions, 6 Fosfofrukto 2 Kinaz İzoenzimlerinin Kök Hücre Biyolojisindeki Rolü, 2014 - 2016

YALÇIN A., Other International Funding Programs, Activation of Cyclin Dependent Kinases by Fructose 2 6, 2011 - 2016  
Yalçın A., Other International Funding Programs, Investigation of the Role of PFKFB3 in EMT and Metastasis in NSCLC, 2013 - 2015

Yalçın A., FP7 Project, Role of PFKFB3 in The Regulation of the Cell Cycle and Tumorigenesis, 2010 - 2014

YALÇIN A., Other International Funding Programs, Controlled Inhibition of the Glycolytic Pathway for Lung Cancer Targeted Therapy, 2010 - 2013

Yalçın A., TUBITAK Project, Investigation of the Role of 6-Phosphofructo-2-Kinase (PFKFB3) in Tumor Cell Biology, 2010

- 2012

YALÇIN A., Other International Funding Programs, Role of Inducible 6 Phosphofructo 2 Kinase iPFK2 in Controlling Metabolic Flux and Growth Activated by Ras in Breast Adenocarcinomas, 2004 - 2007

## **Memberships / Tasks in Scientific Organizations**

Association for Molecular Cancer Research, Board Member, 2021 - Continues, Turkey

European Association for Cancer Research, Member, 2005 - Continues, United Kingdom

Chemistry-Biology Research Group, Consultant, 2016 - 2019, Turkey

## **Metrics**

Publication: 42

Citation (WoS): 1322

Citation (Scopus): 1376

H-Index (WoS): 12

H-Index (Scopus): 12