

Assoc. Prof. TUĞBA TÜMER

Personal Information

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Education Information

Post Doctorate, Rutgers, The State University of New Jersey, Sebs, Plant Biology And Pathology, United States Of America
2013 - 2014

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya Abd, Turkey 2004 - 2009

Post Graduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya Abd, Turkey 2001 - 2004

Under Graduate, Middle East Technical University, Fen Edebiyat Fakültesi , Turkey 1996 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Pharmacogenetics of Childhood Acute Lymphoblastic Leukemia: Investigation of Frequency of TPMT Risk Alleles for Thiopurine Toxicity and the Role of SULT1A1, EPHX1 Polymorphisms as Risk Factors for the Development of the Disease , Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya Abd, 2009

Post Graduate, Biochemical Monitoring of Toxic and Carcinogenic Organic Pollutants Along the İzmir Bay After the Great Canal Project and Possible Health Effects , Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya Abd, 2004

Research Areas

Life Sciences, Biochemistry, Molecular Biochemistry, Molecular Biology and Genetics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi , Moleküler Biyoloji Ve Genetik, 2012 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Sağlık Hizmetleri Meslek Yüksekokulu , Tıbbi Laboratuvar, 2009 - 2012

Research Assistant PhD, Middle East Technical University, Merkez Laboratuvar , Arge, 2009 - 2009

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi , Biyoloji, 2002 - 2009

Courses

Cell Biology, Under Graduate, 2014 - 2015

Klinik Biyokimya, Associate Degree, 2012 - 2013
Moleküler Farmakoloji, Under Graduate, 2011 - 2012
Moleküler Farmakoloji ve İlaç Toksikolojisi, Doctorate, 2010 - 2011
Biyokimya, Associate Degree, 2010 - 2011

Advising Theses

TÜMER T., Diyetsetel Takviye Spirulina'nın Sitokrom P450 ve GST Aracılı Potansiyel İlaç Etkileşimlerinin Moleküler Düzeyde Aydınlatılması, Post Graduate, S.Savranoglu(Student), 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Phytochemical constituents, biological activities, and health-promoting effects of the genus *Origanum***
Sharifi-Rad M., YILMAZ Y. B. , Antika G., Salehi B., TÜMER T., Venil C. K. , Das G., Patra J. K. , Karazhan N., Akram M., et al.
PHYTOTHERAPY RESEARCH, 2020 (Journal Indexed in SCI)
- II. **Impact of Natural Compounds on Neurodegenerative Disorders: From Preclinical to Pharmacotherapeutics**
Sharifi-Rad M., Lankatillake C., Dias D. A. , Docea A. O. , Mahomoodally M. F. , Lobine D., Chazot P. L. , Kurt B., TÜMER T., Moreira A. C. , et al.
JOURNAL OF CLINICAL MEDICINE, vol.9, no.4, 2020 (Journal Indexed in SCI)
- III. **Natural Products and Synthetic Analogs as a Source of Antitumor Drugs**
Sharifi-Rad J., Ozleyen A., TÜMER T., Adetunji C. O. , El Omari N., Balahbib A., Taheri Y., Bouyahya A., Martorell M., Martins N., et al.
BIOMOLECULES, vol.9, no.11, 2019 (Journal Indexed in SCI)
- IV. **In vitro and in silico studies of nitrobenzamide derivatives as potential anti-neuroinflammatory agents**
KULABAS S. S. , CÖMERT ÖNDER F., YILMAZ Y. B. , OZLEYEN A., Durdagi S., Sahin K., AY M., Tumer T. B.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2019 (Journal Indexed in SCI)
- V. **Symphytum Species: A Comprehensive Review on Chemical Composition, Food Applications and Phytopharmacology**
Salehi B., Sharopov F., TÜMER T., Ozleyen A., Rodriguez-Perez C., Ezzat S. M. , Azzini E., Hosseinabadi T., Butnariu M., Sarac I., et al.
MOLECULES, vol.24, no.12, 2019 (Journal Indexed in SCI)
- VI. **Plants of the genus *Spinacia*: From bioactive molecules to food and phytopharmacological applications**
Salehi B., TÜMER T., Ozleyen A., Peron G., Dall'Acqua S., Rajkovic J., Naz R., Nosheen A., Mudau F. N. , Labanca F., et al.
TRENDS IN FOOD SCIENCE & TECHNOLOGY, vol.88, pp.260-273, 2019 (Journal Indexed in SCI)
- VII. **Piper Species: A Comprehensive Review on Their Phytochemistry, Biological Activities and Applications**
Salehi B., Zakaria Z. A. , Gyawali R., Ibrahim S. A. , Rajkovic J., Shinwari Z. K. , Khan T., Sharifi-Rad J., Ozleyen A., Turkdonmez E., et al.
MOLECULES, vol.24, no.7, 2019 (Journal Indexed in SCI)
- VIII. **GR24, a synthetic analog of Strigolactones, alleviates inflammation and promotes Nrf2 cytoprotective response: In vitro and in silico evidences**
Tumer T., Yilmaz B., Özleyen A., KURT B., Tok T. T. , Taskin K. M. , KULABAS S. S.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.76, pp.179-190, 2018 (Journal Indexed in SCI)
- IX. **Ameliorative potential of *Lavandula stoechas* in metabolic syndrome via multitarget interactions.**

KULABAS S., IPEK H., TUFEKCI A., ARSLAN S., DEMIRTAS I., EKREN R., SEZERMAN U., Tümer T.

Journal of ethnopharmacology, vol.223, pp.88-98, 2018 (Journal Indexed in SCI)

- X. **Aryl benzofuran derivatives from the stem bark of *Calpocalyx dinklagei* attenuate inflammation**
Kapche D. W. F. G. , Lekane N. M. , Kulabas S. S. , Ipek H., TAŞKIN TOK T., Ngadjui B. T. , DEMİRTAŞ İ., TÜMER T.
PHYTOCHEMISTRY, vol.141, pp.70-79, 2017 (Journal Indexed in SCI)
- XI. **Modulatory role of GSTM1 null genotype on the frequency of micronuclei in pesticide-exposed agricultural workers**
TÜMER T., Savranoglu S., Atmaca P., Terzioglu G., ŞEN A., ARSLAN Ş.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.32, no.12, pp.1942-1951, 2016 (Journal Indexed in SCI)
- XII. **Inhibitory Effects of *Spirulina platensis* on Carcinogen-Activating Cytochrome P450 Isozymes and Potential for Drug Interactions**
Savranoglu S., TÜMER T.
INTERNATIONAL JOURNAL OF TOXICOLOGY, vol.32, no.5, pp.376-384, 2013 (Journal Indexed in SCI)
- XIII. **DNA repair XRCC1 Arg399Gln polymorphism alone, and in combination with CYP2E1 polymorphisms significantly contribute to the risk of development of childhood acute lymphoblastic leukemia**
TÜMER T., Yılmaz D., Tanrikut C., Sahin G., Ulusoy G., Arinc E.
LEUKEMIA RESEARCH, vol.34, no.10, pp.1275-1281, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Moringa Leaf Phytochemicals for Skin Benefits Cosmetics and Toiletries**
Diana C., Carrie W., TÜMER T., Ilya R., Nava D.
Cosmetics&Toiletries Science Applied, 2014 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Action Mechanism of Novel Nimesulide Derivatives as Potential Antiinflammatory Compounds with Secondary Anticancer Effects**
Özleyen A., Yılmaz Y. B. , GÜNGÖR T., TAŞKIN TOK T., AY M., TÜMER T.
7th International BAU Drug Design Congress 19-20-21 DECEMBER 2019, İstanbul, Turkey, 19 - 21 December 2019, pp.97-98
- II. **Synthesis, Antiinflammatory and Anticancer Effects of Novel Amide Containing Compounds**
GÜNGÖR T., Özleyen A., Yılmaz Y. B. , TAŞKIN TOK T., AY M., TÜMER T.
1st International Multidisciplinary Cancer Research Congress, Diyarbakır, Turkey, 18 - 22 September 2019, pp.122-123
- III. **Nitrobenzamide Derivatives as iNOS Inhibitors Also Promotes Nrf2 Mediated Cytoprotective Response: in Vitro and in Silico Approaches**
Yılmaz Y. B. , Cömert Önder F., Özleyen A., GÜNGÖR T., Savranoglu S., DURDAĞI S., AY M., TÜMER T.
6th International Congress of the Molecular Biology Association of Turkey, Molbiyokon'18, İzmir, Turkey, 5 - 08 September 2018, pp.51
- IV. **Ethyl acetate extract of *Lavandula stoechas* increased glucose uptake, phosphorylation of AKT and expression of lipoprotein lipase in insulin resistant C2C12 muscle cells.**
Kulabas S. S. , İpek H., ARSLAN Ş., TÜFEKÇİ A. R. , DEMİRTAŞ İ., TÜMER T.
3rd International Conference on Natural Products Utilization From Plants to Pharmacy Shelf, 18 - 21 October 2017
- V. **A synthetic analog of novel phytohormones Strigolactones attenuates inflammation and improves insulin response in vitro**
TÜMER T., YILMAZ B., KURT B., KURT S., TAŞKIN K. M. , KULABAS S. S.
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- VI. ***Lavandula stoechas*: Anti-Inflammatory Effects And Active Components**

İpek H., Kulabas S. S. , TÜFEKÇİ A. R. , DEMİRTAŞ İ., TÜMER T.

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- VII. **Subfraction Obtained From Ethylacetate Extract of Lavandula stoechas Effectively Restrains Gluconeogenic Glucose Production in Hepatic Cells and Improves Signaling in Insulin Resistant Myotubes**

Kulabas S. S. , İpek H., TÜFEKÇİ A. R. , GÜL F., DEMİRTAŞ İ., TÜMER T.

PSE International Symposium "New Old Phytochemicals: Their Role in Ecology, Veterinary Welfare, 17 - 20 September 2017

- VIII. **Lavandula stoechas: Its differential medicinal use in Anatolia and ameliorative potential for metabolic syndrome.**

TÜMER T., Kulabas S. S. , İpek H., TÜFEKÇİ A. R. , ARSLAN Ş., DEMİRTAŞ İ.

PSE International Symposium "New Old Phytochemicals: Their Role in Ecology, Veterinary Welfare, 17 - 20 September 2017

- IX. **LUTEOLIN FROM LAVANDULA STOECHAS SUBSTANTIALLY INHIBITED THE EXPRESSION OF GLUCONEOGENIC ENZYMES IN HEPATIC CELLS**

seda s., hande i., TÜFEKÇİ A. R. , DEMİRTAŞ İ., TÜMER T.

The 29th International Symposium on the Chemistry of Natural Products, 24 - 27 September 2016

- X. **Sentezlenen Bazı Nitro Benzamit Türevlerinin Raw 264.7 Hücre Hattında İnflamasyon Üzerine Etkileri**

TÜMER T., cömert önder f., İPEK H., GÜNGÖR T., savranoğlu s., ay m., ÇELİK A.

27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.492

- XI. **Antioxidant activity of Moringa oleifera isothiocyanates**

Rojas-Silva P., Tumer T. B. , Pulev A., Raskin I., Waterman C.

Annual Meeting of the American-Society-of-Pharmacognosy, Colorado, United States Of America, 25 - 29 July 2015, vol.81, pp.946

- XII. **Pharmacogenetics of Thiopurine Methyltransferase in Treatment of Acute Lymphoblastic Leukemia with 6 Mercaptopurine in Turkish Children Discordant Cases**

TÜMER T., ARINC E., SAHIN G., ULUSOY G.

45th Congress of The International Society of Pediatric Oncology (SIOP), Hong Kong, China, 25 - 28 September 2013, vol.60, pp.55-56

- XIII. **Diyetsel Takviye Spirulina nın Sitokrom P450 Enzimleri Üzerine Etkileri Potansiyel İlaç Etkileşimleri**

SAVRANOGLU S., TÜMER T.

25. Ulusal Biyokimya Kongresi, İzmir, Turkey, 3 - 06 September 2013, vol.38, pp.359

- XIV. **EPHX1 Gene Tyr113His Variant Alone or in Combination with XRCC1 Arg399Gln Polymorphism Significantly and Considerably Increased the Risk of Childhood Acute Lymphoblastic Leukemia**

TÜMER T., YILMAZ D., TANRIKUT C., ULUSOY G., ARINC E.

9th International Meeting of the International Society for the Study of Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.259-260

- XV. **EPHX1 GENE TYR113HIS VARIANT ALONE, or in COMBINATION with XRCC1 ARG399GLN POLYMORPHISM SIGNIFICANTLY and CONSIDERABLY INCREASED THE RISK of CHILDHOOD ACUTE LYMPHOBLASTIC LUKEMIA**

TÜMER T., Yilmaz D., Tanrikut C., Ulusoy G., Arinc E.

9th International Meeting of the International-Society-for-the-Study-of-Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.259-260

- XVI. **Protective Role of DNA Repair XRCC3 Thr241Met Polymorphism on Development of Childhood Acute Lymphoblastic Leukemia**

Tanrikut C., TÜMER T., Arinc E.

9th International Meeting of the International-Society-for-the-Study-of-Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.264-265

- XVII. **The role of DNA repair gene XRCC1 Arg194Trp and Arg399Gln polymorphisms as risk factor for the development of childhood acute lymphoblastic leukemia A study on turkish population including the**

case only analysis of interactive effect of cigarette smoke

ARINÇ E., TÜMER T., YILMAZ D., TANRIKUT C., ULUSOY G.

16th North American Regional ISSX Meeting, Maryland, United States Of America, 18 - 22 October 2009, vol.41, pp.158

XVIII. Significance of CYP2E1 and NQO1 Polymorphisms in the risk development of childhood acute lymphoblastic leukemia

ULUSOY G., TÜMER T., ADALI O., ŞAHİN G., ARINÇ E.

10th European Regional Meeting of the International Society for the Study of Xenobiotics (ISSX), VİYANA, Austria, 18 - 21 May 2008, vol.40, pp.134-135

XIX. The Role Of SULT1A1 and EPHX1 Polymorphisms as Risk Modifiers In Childhood Acute Lymphoblastic Leukemia in Turkish Population A Case Control Study

TÜMER T., GÜLEN U., ADALI O., GÜLEN U., GÜRSES Ş., ARINÇ E.

10th European Regional Meeting of the International Society for the Study of Xenobiotics (ISSX), VİYANA, Austria, 18 - 21 May 2008, vol.40, pp.141-142

XX. Genetic polymorphism of Thiopurine Methyltransferase Enzyme in Children with Acute Lymphoblastic Leukemia in Turkish population A Preliminary Study on TPMT 3A and TPMT 3C allele

TÜMER T., ULUSOY G., ADALI O., ŞAHİN G., GÖZDAŞOĞLU S., ARINÇ E.

14th North American Meeting of the International Society for the Study of Xenobiotics (ISSX), PORTO RİKO, United States Of America, 22 - 26 October 2006, vol.38, pp.205

XXI. Screening of PAH PCB Type Pollution along Izmir Bay by CYP1A Levels and EROD Activities of Three Different Fish Species

TÜMER T., ARINÇ E.

31st FEBS Congress, İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.292

XXII. CYP2E1 5B and 6 Polymorphisms are Possible Risk Factors in the Development of Childhood Acute Lymphoblastic Leukemia

ULUSOY G., ADALI O., TÜMER T., SAHİN G., GÖZDAŞOĞLU S., ARINÇ E.

9th European Meeting of the International Society for the Study of Xenobiotics (ISSX), MANCHASTER, England, 4 - 07 June 2006, vol.38, pp.21

XXIII. Biotransformation Enzyme Activities of Feral Annular Seabream along the Pollution Gradient of Izmir Bay EROD Activities Correlate with MROD but not with Other Monooxygenase Activities

TÜMER T., ARINÇ E.

Pollutant Responses in Marine Organisms (PRIMO 13), Alessandria, Italy, 19 - 23 June 2005, vol.62, pp.52

XXIV. Biochemical monitoring of toxic and carcinogenic organic pollutants along the İzmir Bay after great canal project and possible health effects

TÜMER T., BOZCAARMUTLU A., ARINÇ E.

13th Balkan Biochemical Biophysical Days & Meeting on Metabolic Disorders, Turkey, 12 - 15 October 2003, vol.28, pp.178-179

XXV. Kinetik ve Biyokimyasal Veriler Tavşan ve Sıçan Karaciğerinde En Az İki P450 Formunun Kokainin N Demetilasyonunda Rol Aldığını Göstermiştir

ULUSOY G., TÜMER T., BOZCAARMUTLU A., ARINÇ E.

17. ULUSAL BİYOKİMYA KONGRESİ, Ankara, Turkey, 24 - 27 June 2002

Supported Projects

TÜMER T., TUBITAK Project, "Strigolakton Analoglarının in vitro Nöroinflamasyon Modellerinde Potansiyel Anti-Nöroinflamatuvar Etkilerinin ve Moleküler Mekanizmalarının Aydınlatılması", 2019 - Continues

GÜNGÖR T., AY M., TÜMER T., TUBITAK Project, Yeni Nesil Anti-Inflamatuvar Moleküllerin In-Siliko Tasarımı, Sentezi, Etkinlik Taraması Ve İkincil Antikarsinojenik Özellikleri İle Mekanizmalarının Aydınlatılması, 2017 - Continues

TÜMER T., TUBITAK Project, Metabolik Sendrom Bileşenlerinden İnsülin Direnci ve Dislipidemiği Oluşturan Faktörler Üzerine Potansiyel İyileştirici Etkisinin ve Mekanizmalarının Moleküler Düzeyde Aydınlatılması, 2012 - Continues

ÖZKILINÇ H., UYSAL Y., TÜMER T., Project Supported by Higher Education Institutions, Çanakkale Onsekiz Mart Üniversitesi, Moleküler Biyoloji ve Genetik Bölümüne Genetik Araştırma Kapasitesinin Kazandırılması, 2012 - 2015
COŞKUN M., TÜMER T., ÇAYIR A., COŞKUN M., TOK H., Project Supported by Higher Education Institutions, Pestisitlere Maruz Kalan Sera Çiftçilerinde Olası Sitogenetik Hasarın Periferal Kan Lenfositleri ve Ağız Mukoza Epitel Hücrelerinde Mikronukleus Frekansı ile Belirlenmesi, 2010 - 2013
GÜRKAN M., TÜMER T., TÜBİTAK Project, Spirulina Doğal Preparatının Ksenobiyotik Metabolizması Üzerine Etkilerinin Moleküler Düzeyde Aydınlatılması, 2011 - 2012

Citations

Total Citations (WOS):110

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