

## Prof. AYŞE BAŞAK ENGİN

### Personal Information

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### International Researcher IDs

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ScopusID: 8502602600

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### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, İmmünoloji (Dr), Turkey 2011 - 2015

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr), Turkey 2006 - 2008

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, Turkey 1995 - 1999

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Investigation of the effect of C1q and complement regulatory protein CD59 on the SH-SY5Y cell viability in hyperglycemic conditions, Gazi University, Sağlık Bilimleri Enstitüsü, İmmünoloji (Dr), 2015

Doctorate, The investigation of the association between gastrointestinal adenocarcinomas and some DNA repair genes, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr), 2008

Postgraduate, Determinant biomarkers of occupational exposure to some xenobiotics, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji A.B.D., 2002

### Research Areas

Health Sciences

### Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2018 - Continues

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2012 - 2018

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2007 - 2013

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1999 - 2006

## Courses

FTO-1080- Ksenobiyotikler ve Oksidatif Stres, Postgraduate, 2017 - 2018, 2016 - 2017  
FTO-2090 İmmünotoksikoloji, Postgraduate, 2017 - 2018, 2016 - 2017  
UYG937 Mezuniyet Projesi I Uygulama, Undergraduate, 2017 - 2018  
FTO3060-Nutrigenomiks, Postgraduate, 2017 - 2018  
Immunoloji - IMJ211, Undergraduate, 2017 - 2018  
UYG938 Araştırma Projesi II Uygulama, Undergraduate, 2017 - 2018  
DAN SBE Yüksek Lisans Danışmanlığı, Postgraduate, 2017 - 2018  
ECZ5991 Mezuniyet Projesi II Uygulama, Undergraduate, 2017 - 2018  
UYG938 Araştırma Projesi II, Undergraduate, 2017 - 2018  
Prj 938 Araştırma Projesi I, Undergraduate, 2017 - 2018  
Seminer - 1002, Postgraduate, 2017 - 2018  
Prj 938 Araştırma Projesi II, Undergraduate, 2017 - 2018  
UYG938 Araştırma Projesi I Uygulama, Undergraduate, 2017 - 2018  
FTO409 Farmasötik Toksikoloji (Dönemde 5 saat), Undergraduate, 2017 - 2018  
ECZ5091 Mezuniyet Projesi II, Undergraduate, 2017 - 2018  
IMJ 211 İmmünoloji, Undergraduate, 2016 - 2017

## Advising Theses

ENGİN A. B., Oxidative Stress And Serum Complement Protein Levels Of Diabetic Patients With Gallbladder Stone, Postgraduate, G.ÇEBER(Student), 2017  
ENGİN A. B., The Effect Of Metformin And Caffeine On Mercury-Induced Neuronal Cell Death, Postgraduate, D.KARAKISA(Student), 2015

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

- I. **Does lithium attenuate the liver damage due to oxidative stress and liver glycogen depletion in experimental common bile duct obstruction?**  
Engin A. B., Engin A., Engin E. D., Memiş L.  
Toxicology and Applied Pharmacology, vol.466, 2023 (SCI-Expanded)
- II. **Effects of co-selection of antibiotic-resistance and metal-resistance genes on antibiotic-resistance potency of environmental bacteria and related ecological risk factors**  
ENGİN A. B., ENGİN E. D., Engin A.  
Environmental Toxicology and Pharmacology, vol.98, 2023 (SCI-Expanded)
- III. **Can iron, zinc, copper and selenium status be a prognostic determinant in COVID-19 patients?**  
ENGİN A. B., ENGİN E. D., ENGİN A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.95, 2022 (SCI-Expanded)
- IV. **Size Dependent Dissolution of Silver Nanoparticles in Human Monocytic/Macrophage-Like U937 Cells and Speciation by Single Particle-Inductively Coupled Plasma-Mass Spectrometry (SP-ICP-MS)**  
ALP O., ENGİN A. B., ERTAŞ N.  
ANALYTICAL LETTERS, vol.55, no.18, pp.2912-2927, 2022 (SCI-Expanded)
- V. **Telomere attrition may be a more realistic toxicity test for both low and high dose exposure**  
Coleman M. D., ENGİN A. B.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.90, 2022 (SCI-Expanded)
- VI. **The effect of environmental diesel exhaust pollution on SARS-CoV-2 infection: The mechanism of pulmonary ground glass opacity**  
POYRAZ B. M., ENGİN E. D., ENGİN A. B., ENGİN A.

- ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.86, 2021 (SCI-Expanded)
- VII. **The effect of environmental Bisphenol A exposure on breast cancer associated with obesity**  
ENGİN A. B., ENGİN A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.81, 2021 (SCI-Expanded)
- VIII. **The effect of environmental pollution on immune evasion checkpoints of SARS-CoV-2**  
ENGİN A. B., ENGİN E. D., ENGİN A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.81, 2021 (SCI-Expanded)
- IX. **Iron homeostasis is altered in response to hypoxia and hypothermic preconditioning in brain glial cells**  
Aral L. A., Ergün M. A., Engin A. B., Börcek A. Ö., Belen H. B.  
Turkish journal of medical sciences, vol.50, no.8, pp.2005-2016, 2020 (SCI-Expanded)
- X. **Dual function of sialic acid in gastrointestinal SARS-CoV-2 infection**  
ENGİN A. B., ENGİN E. D., Engin A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.79, 2020 (SCI-Expanded)
- XI. **Two important controversial risk factors in SARS-CoV-2 infection: Obesity and smoking**  
ENGİN A. B., ENGİN E. D., Engin A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.78, 2020 (SCI-Expanded)
- XII. **A Review of the Alleged Health Hazards of Monosodium Glutamate**  
Zanfirescu A., Ungurianu A., Tsatsakis A. M., Nitulescu G. M., Kouretas D., Veskoukis A., Tsoukalas D., ENGİN A. B., Aschner M., Margina D.  
COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY, vol.18, no.4, pp.1111-1134, 2019 (SCI-Expanded)
- XIII. **The effect of adipocyte-macrophage crosstalk in obesity-related breast cancer**  
ENGİN A. B., Engin A., IŞIK GÖNÜL İ.  
JOURNAL OF MOLECULAR ENDOCRINOLOGY, vol.62, no.3, 2019 (SCI-Expanded)
- XIV. **The blood-brain barrier and beyond: Nano-based neuropharmacology and the role of extracellular matrix**  
Henrich-Noack P., Nikitovic D., Neagu M., Docea A. O., ENGİN A. B., Gelperina S., Shtilman M., Mitsias P., Tzanakakis G., Gozes I., et al.  
NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE, vol.17, pp.359-379, 2019 (SCI-Expanded)
- XV. **Nanoparticles and neurotoxicity: Dual response of glutamatergic receptors**  
ENGİN A. B., Engin A.  
NANONEUROPROTECTION AND NANONEUROTOXICOLOGY, vol.245, pp.281-303, 2019 (SCI-Expanded)
- XVI. **Nanoantibiotics: A Novel Rational Approach to Antibiotic Resistant Infections**  
ENGİN A. B., Engin A.  
CURRENT DRUG METABOLISM, vol.20, no.9, pp.720-741, 2019 (SCI-Expanded)
- XVII. **DNA damage checkpoint response to aflatoxin B1**  
ENGİN A. B., Engin A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.65, pp.90-96, 2019 (SCI-Expanded)
- XVIII. **Chemical-induced contact allergy: from mechanistic understanding to risk prevention**  
Corsini E., ENGİN A. B., Neagu M., Galbiati V., Nikitovic D., Tzanakakis G., Tsatsakis A. M.  
ARCHIVES OF TOXICOLOGY, vol.92, no.10, pp.3031-3050, 2018 (SCI-Expanded)
- XIX. **Impact of glutamine on the effect of neopterin in methyl mercury-exposed neurons**  
ENGİN E. D., ENGİN A. B.  
PTERIDINES, vol.29, no.1, pp.104-113, 2018 (SCI-Expanded)
- XX. **Perioperative mortality prediction using POSSUM in patients with gastrointestinal tumors: Do immunological variables affect individual predictive mortality risk?**  
Engin A., ENGİN A. B., KURUKAHVEÇİOĞLU O., SEPİCİ DİNÇEL A.  
PTERIDINES, vol.29, no.1, pp.114-123, 2018 (SCI-Expanded)
- XXI. **Do flavanols-rich natural products relieve obesity-related insulin resistance?**  
ENGİN A. B., Tsatsakis A. M., Tsoukalas D., Engin A.

- FOOD AND CHEMICAL TOXICOLOGY, vol.112, pp.157-167, 2018 (SCI-Expanded)
- XXII. **N-Methyl-D aspartate receptor-mediated effect on glucose transporter-3 levels of high glucose exposed-SH-SY5Y dopaminergic neurons**  
Engin A. B., Engin E. D., Karakuş R., Aral A., Gülbahar Ö., Engin A.  
FOOD AND CHEMICAL TOXICOLOGY, vol.109, pp.465-471, 2017 (SCI-Expanded)
- XXIII. **Serum neopterin concentrations and tryptophan degradation pattern in patients with late stage larynx carcinoma**  
ENGİN A. B., GÜNAYDIN R. Ö., Kesikli S. A., Fuchs D., Hosal A. S.  
PTERIDINES, vol.28, no.2, pp.91-95, 2017 (SCI-Expanded)
- XXIV. **Simulating real-life exposures to uncover possible risks to human health: A proposed consensus for a novel methodological approach**  
Tsatsakis A. M., Kouretas D., Tzatzarakis M. N., Stivaktakis P., Tsarouhas K., Golokhvast K. S., Rakitskii V. N., Tutelyan V. A., Hernandez A. F., Rezaee R., et al.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.36, no.6, pp.554-564, 2017 (SCI-Expanded)
- XXV. **The immunotoxicological pattern of subchronic and chronic benzene exposure in rats**  
Karaulov A. V., Mikhaylova I. V., Smolyagin A. I., Boev V. M., Kalogeraki A., Tsatsakis A. M., ENGİN A. B.  
TOXICOLOGY LETTERS, vol.275, pp.1-5, 2017 (SCI-Expanded)
- XXVI. **Mechanistic understanding of nanoparticles' interactions with extracellular matrix: the cell and immune system**  
ENGİN A. B., Nikitovic D., Neagu M., Henrich-Noack P., Docea A. O., Shtilman M. I., Golokhvast K., Tsatsakis A. M.  
PARTICLE AND FIBRE TOXICOLOGY, vol.14, 2017 (SCI-Expanded)
- XXVII. **Glutamate-mediated effects of caffeine and interferon-gamma on mercury-induced toxicity**  
ENGİN A. B., ENGİN E. D., Golokhvast K., Spandidos D. A., Tsatsakis A. M.  
INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, vol.39, no.5, pp.1215-1223, 2017 (SCI-Expanded)
- XXVIII. **Oral application of carbon nanofibers in rats increases blood concentration of IL6 and IL10 and decreases locomotor activity**  
Sayapina N. V., Batalova T. A., Sergievich A. A., Shtarberg M. A., Borodin E. A., Khoroshikh P. P., Chaika V. V., Kodintsev V. V., Vedyagin A. A., Mishakov I. V., et al.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.50, pp.183-191, 2017 (SCI-Expanded)
- XXIX. **Protein bio-corona: critical issue in immune nanotoxicology**  
Neagu M., Piperigkou Z., Karamanou K., ENGİN A. B., Docea A. O., Constantin C., Negrei C., Nikitovic D., Tsatsakis A.  
ARCHIVES OF TOXICOLOGY, vol.91, no.3, pp.1031-1048, 2017 (SCI-Expanded)
- XXX. **Basophil mediated pro-allergic inflammation in vehicle-emitted particles exposure**  
Zakharenko A. M., ENGİN A. B., Chernyshev V. V., Chaika V. V., Ugay S. M., Rezaee R., Karimi G., Drozd V. A., Nikitina A. V., Solomennik S. F., et al.  
ENVIRONMENTAL RESEARCH, vol.152, pp.308-314, 2017 (SCI-Expanded)
- XXXI. **Circulating IL-6 and neopterin concentrations link cell-mediated immunity and tumor stage in patients with gastro-intestinal adenocarcinoma: relevance to the pituitary-adrenal axis and pituitary-thyroid axis**  
ENGİN A. B., Engin A., SEPİCİ DİNÇEL A., KURUKAHVECİOĞLU O.  
PTERIDINES, vol.27, pp.17-25, 2016 (SCI-Expanded)
- XXXII. **Emerging aspects of nanotoxicology in health and disease: From agriculture and food sector to cancer therapeutics**  
Piperigkou Z., Karamanou K., ENGİN A. B., Gialeli C., Docea A. O., Vynios D. H., Pavao M. S. G., Golokhvast K. S., Shtilman M. I., Argiris A., et al.  
FOOD AND CHEMICAL TOXICOLOGY, vol.91, pp.42-57, 2016 (SCI-Expanded)
- XXXIII. **The impact of multi-walled carbon nanotubes with different amount of metallic impurities on immunometabolic parameters in healthy volunteers**  
Vitkina T. I., Yankova V. I., Gvozdenko T. A., Kuznetsov V. L., Krasnikov D. V., Nazarenko A. V., Chaika V. V., Smagin S. V., Tsatsakis A. M., Engin A. B., et al.  
FOOD AND CHEMICAL TOXICOLOGY, vol.87, pp.138-147, 2016 (SCI-Expanded)

- XXXIV. **NANOPARTICLES AND ENDOTHELIUM: AN UPDATE ON THE TOXICOLOGICAL INTERACTIONS**  
ENGİN A. B., Neagu M., Golokhvast K., Tsatsakis A.  
FARMACIA, vol.63, no.6, pp.792-804, 2015 (SCI-Expanded)
- XXXV. **Helicobacter pylori and serum kynurenine-tryptophan ratio in patients with colorectal cancer**  
ENGİN A. B., KARAHALİL B., Karakaya A. E., Engin A.  
WORLD JOURNAL OF GASTROENTEROLOGY, vol.21, no.12, pp.3636-3643, 2015 (SCI-Expanded)
- XXXVI. **Indoleamine 2,3-Dioxygenase-Competent Regulatory Dendritic Cells and Their Role in Alloimmune Regulation and Transplant Immune Tolerance**  
Engin A., ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, pp.335-360, 2015 (SCI-Expanded)
- XXXVII. **Tryptophan Metabolism: Implications for Biological Processes, Health and Disease Preface**  
Engin A., ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, 2015 (SCI-Expanded)
- XXXVIII. **Night Shifts and Melatonin: Relevance to Age and Breast Cancer**  
Engin A., ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, pp.269-289, 2015 (SCI-Expanded)
- XXXIX. **Tryptophan and Cell Death**  
Engin A., ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, pp.31-54, 2015 (SCI-Expanded)
- XL. **Evaluation of Tryptophan Metabolism in Chronic Immune Activation**  
ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, pp.121-145, 2015 (SCI-Expanded)
- XLI. **Could 8-oxoguanine DNA glycosylase 1 Ser326Cys polymorphism be a biomarker of susceptibility in cancer?**  
KARAHALİL B., ENGİN A. B., Coskun E.  
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.30, no.9, pp.814-825, 2014 (SCI-Expanded)
- XLII. **Effect of N-acetyl cysteine, Neopterin and Dexamethasone on the Viability of Titanium dioxide Nanoparticles Exposed Cell Lines**  
ENGİN A. B., ENGİN E. D., KARAHALİL B.  
PTERIDINES, vol.23, no.4, pp.111-122, 2012 (SCI-Expanded)
- XLIII. **Oxidative stress and tryptophan degradation pattern of acute Toxoplasma gondii infection in mice**  
ENGİN A. B., DOĞRUMAN AL F., Ercin U., Celebi B., Babur C., BUKAN N.  
PARASITOLOGY RESEARCH, vol.111, no.4, pp.1725-1730, 2012 (SCI-Expanded)
- XLIV. **Oxidative stress-induced endothelial cell damage in thyroidectomized rat**  
ENGİN A. B., SEPİCİ DİNÇEL A., IŞIK GÖNÜL İ., Engin A.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, vol.64, no.5, pp.481-485, 2012 (SCI-Expanded)
- XLV. **Association between ABCB1 gene polymorphisms and fentanyl's adverse effects in Turkish patients undergoing spinal anesthesia.**  
Kesimci E., Engin A. B., Kanbak O., Karahalil B.  
Gene, vol.493, no.2, pp.273-7, 2012 (SCI-Expanded)
- XLVI. **DNA repair enzyme polymorphisms and oxidative stress in a Turkish population with gastric carcinoma**  
ENGİN A. B., KARAHALİL B., Engin A., Karakaya A. E.  
MOLECULAR BIOLOGY REPORTS, vol.38, no.8, pp.5379-5386, 2011 (SCI-Expanded)
- XLVII. **Dual Function of Nitric Oxide in Carcinogenesis, Reappraisal**  
Engin A. B.

CURRENT DRUG METABOLISM, vol.12, no.9, pp.891-899, 2011 (SCI-Expanded)

- XLVIII. **Effect of butylated hydroxytoluene (E321) pretreatment versus L-arginine on liver injury after sub-lethal dose of endotoxin administration**  
ENGİN A. B., BUKAN N., Kurukahuecioglu O., Memis L., Engin A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.32, no.3, pp.457-464, 2011 (SCI-Expanded)
- XLIX. **ASSOCIATION BETWEEN XRCC1 ARG399GLN AND P53 ARG72PRO POLYMORPHISMS AND THE RISK OF GASTRIC AND COLORECTAL CANCER IN TURKISH POPULATION**  
ENGİN A. B., KARAHALİL B., Karakaya A. E., Engin A.  
ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY, vol.62, no.3, pp.207-214, 2011 (SCI-Expanded)
- L. **Human papilloma virus persistence and neopterin, folate and homocysteine levels in cervical dysplasias**  
Abike F., ENGİN A. B., Dunder I., Tapisiz O. L., Aslan C., Kutluay L.  
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.284, no.1, pp.209-214, 2011 (SCI-Expanded)
- LI. **NanoLINEN: Nanotoxicology Link Between India and European Nations**  
Dhawan A., Shanker R., Laffon B., Fernandez Tajés J., Fuchs D., van der Laan G., van Broekhuizen P., Becker H., Moriske H., Teixeira J. P. F., et al.  
JOURNAL OF BIOMEDICAL NANOTECHNOLOGY, vol.7, no.1, pp.203-204, 2011 (SCI-Expanded)
- LII. **Exposure to Helicobacter pylori and Serum Kynurenine to Tryptophan Ratio in Patients with Gastric Cancer**  
ENGİN A. B., KARAHALİL B., Karakaya A. E., Engin A.  
PTERIDINES, vol.21, no.4, pp.110-120, 2010 (SCI-Expanded)
- LIII. **Increased tryptophan degradation in patients with bronchus carcinoma**  
Engin A. B., ÖZKAN Y., Fuchs D., Yardim-Akaydin S.  
EUROPEAN JOURNAL OF CANCER CARE, vol.19, no.6, pp.803-808, 2010 (SCI-Expanded)
- LIV. **Oxidative Stress, Helicobacter pylori, and OGG1 Ser326Cys, XPC Lys939Gln, and XPD Lys751Gln Polymorphisms in a Turkish Population with Colorectal Carcinoma**  
ENGİN A. B., KARAHALİL B., Engin A., Karakaya A. E.  
GENETIC TESTING AND MOLECULAR BIOMARKERS, vol.14, no.4, pp.559-564, 2010 (SCI-Expanded)
- LV. **Influence of surgical trauma on neopterin concentrations in gastric carcinoma patients**  
ENGİN A. B., Engin A., SEPİCİ DİNÇEL A.  
TUMORI, vol.96, no.4, pp.589-593, 2010 (SCI-Expanded)
- LVI. **Aflatoxin levels in wheat samples consumed in some regions of Turkey**  
Giray B., GİRĞİN G., ENGİN A. B., Aydın S., Sahin G.  
Food Control, vol.18, no.1, pp.23-29, 2007 (SCI-Expanded)
- LVII. **Aflatoxin M1 levels in commonly consumed cheese and yogurt samples in Ankara, Turkey**  
GÜRBAY A., ENGİN A. B., ÇAĞLAYAN A., Şahin G.  
Ecology of Food and Nutrition, vol.45, no.6, pp.449-459, 2006 (SCI-Expanded)
- LVIII. **Evaluation of pteridine metabolism in battery workers chronically exposed to lead**  
ENGİN A. B., Tuzun D., Sahin G.  
Human and Experimental Toxicology, vol.25, no.7, pp.353-359, 2006 (SCI-Expanded)
- LIX. **Assessment of aflatoxin M1 levels in milk in Ankara, Turkey**  
GÜRBAY A., AYDIN S., GİRĞİN G., ENGİN A. B., ŞAHİN G.  
Food Control, vol.17, no.1, pp.1-4, 2006 (SCI-Expanded)
- LX. **Aflatoxin and ochratoxin in various types of commonly consumed retail ground samples in Ankara, Turkey**  
BAYDAR T., ENGİN A. B., GİRĞİN G., Aydın S., Şahin G.  
Annals of Agricultural and Environmental Medicine, vol.12, no.2, pp.193-197, 2005 (SCI-Expanded)
- LXI. **Effect of ionizing radiation on the pteridine metabolic pathway and evaluation of its cytotoxicity in exposed hospital staff**  
Engin A. B., ERGÜN M. A., Yurtcu E., Kan D., Sahin G.

MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.585, pp.184-192, 2005 (SCI-Expanded)

**LXII. Effect of aluminum exposure on pteridine metabolism**

BAYDAR T., ENGİN A. B., Aydın A., ŞAHİN G.

Biological Trace Element Research, vol.106, no.2, pp.153-164, 2005 (SCI-Expanded)

**LXIII. Neopterin profile to evaluate the effectiveness of treatment in aggressive periodontitis**

BODUR A., BAYDAR T., ÖZMERİÇ KURTULUŞ N., ENGİN A. B., URAZ A., EREN K., ŞAHİN G.

Pteridines, vol.14, no.3, pp.77-81, 2003 (SCI-Expanded)

**LXIV. Neopterin profile to evaluate the effectiveness of treatment in aggressive periodontitis**

Bodur A., BAYDAR T., Ozmeric N., Engin A. B., Uraz A., Eren K., Sahin G.

PTERIDINES, vol.14, no.3, pp.77-81, 2003 (SCI-Expanded)

**LXV. Effects of the metals on dihydropteridine reductase activity**

Altindag Z. Z., BAYDAR T., ENGİN A. B., Sahin G.

Toxicology in Vitro, vol.17, no.5-6, pp.533-537, 2003 (SCI-Expanded)

**LXVI. Level of neopterin, a marker of immune cell activation in gingival crevicular fluid, saliva, and urine in patients with aggressive periodontitis**

Ozmeric N., BAYDAR T., Bodur A., Engin A. B., Uraz A., Eren K., Sahin G.

JOURNAL OF PERIODONTOLOGY, vol.73, no.7, pp.720-725, 2002 (SCI-Expanded)

## Articles Published in Other Journals

**I. Adipogenesis-related microRNAs in obesity**

ENGİN A. B., ENGİN A.

ExRNA, vol.4, 2022 (Scopus)

**II. Editorial overview: Neuroreceptors and neurotoxic effect through altered synaptic transmission of neurotransmitters**

ENGİN A. B., Neagu M.

Current Opinion in Toxicology, vol.28, 2021 (ESCI)

**III. Current opinion in neurological manifestations of SARS-CoV-2 infection**

ENGİN A. B., ENGİN E. D., ENGİN A.

CURRENT OPINION IN TOXICOLOGY, vol.25, pp.49-56, 2021 (ESCI)

**IV. Risk of Alzheimer's disease and environmental bisphenol A exposure**

ENGİN A. B., ENGİN A.

CURRENT OPINION IN TOXICOLOGY, vol.25, pp.36-41, 2021 (ESCI)

**V. Why should the molecular characterization of inflammasome-induced exosomal cargo be done?**

ENGİN A., ENGİN A. B.

ExRNA, vol.3, no.November, 2021 (Scopus)

**VI. Diverse Responses of Neurons and Monocytes to Titanium Dioxide Nanoparticle Exposure**

ENGİN A. B., ENGİN E. D.

TURKISH JOURNAL OF IMMUNOLOGY, vol.7, no.1, pp.40-49, 2019 (ESCI)

**VII. The impact of immunotoxicity in evaluation of the nanomaterials safety**

ENGİN A. B., Hayes W.

Toxicology Research and Application, vol.2, 2018 (Peer-Reviewed Journal)

**VIII. Preface**

ENGİN A., ENGİN A. B.

Molecular and Integrative Toxicology, 2015 (Scopus)

**IX. Evaluation of JWA and XRCC1 expressions in gastric cancer**

ENGİN A. B.

Translational Gastric Cancer, vol.2, no.1, pp.94-97, 2013 (Peer-Reviewed Journal)

**X. Preface**

ENGİN A. B., Engin A.

Endothelium: Molecular Aspects of Metabolic Disorders, 2013 (Scopus)

**XI. Nutrigenomik Kişiselleştirilmiş Diyet**

ENGİN A. B., KADIOĞLU E.

Gıda Güvenliği Dergisi, vol.3, no.1, pp.36-38, 2009 (Peer-Reviewed Journal)

**XII. Changes in dihydropteridine reductase DHPR activity**

ENGİN A. B., Tüzün D., Şahin G.

Chemistry and biology of pteridines and folates, pp.329-334, 2002 (Peer-Reviewed Journal)

**XIII. Determination of neopterin levels in gingival crevicular fluid GCF**

ENGİN A. B., Baydar T., Özmeriç N., Bodur A., Uraz A., Eren K., Şahin G.

Chemistry and biology of pteridines and folates, vol.1, pp.383-386, 2002 (Peer-Reviewed Journal)

## **Books & Book Chapters**

**I. Protein Kinase-mediated Decisions Between Life and Death**

Engin A. B. (Editor), Engin A. (Editor)

Springer Nature, Zug, 2021

**II. Aging and Protein Kinases**

Engin A. B., Engin A.

in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, Zug, pp.35-69, 2021

**III. The Connection Between Cell Fate and Telomere**

ENGİN A. B., ENGİN A.

in: Protein Kinase-mediated Decisions Between Life and Death", Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, pp.71-100, 2021

**IV. N-Methyl-D-Aspartate Receptor Signaling-Protein Kinases Crosstalk in Cerebral Ischemia**

ENGİN A., ENGİN A. B.

in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, pp.259-283, 2021

**V. Protein Kinases Signaling in Pancreatic Beta-cells Death and Type 2 Diabetes**

ENGİN A. B., ENGİN A.

in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, pp.195-227, 2021

**VI. Indoleamine 2,3-Dioxygenase Activity-Induced Acceleration of Tumor Growth, and Protein Kinases-Related Novel Therapeutics Regimens**

ENGİN A. B., ENGİN A.

in: Protein Kinase-mediated Decisions Between Life and Death, , Editor, Springer International Publishing, pp.339-356, 2021

**VII. Alzheimer's Disease and Protein Kinases**

ENGİN A. B., ENGİN A.

in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, pp.285-321, 2021

**VIII. Combined Toxicity of Metal Nanoparticles: Comparison of Individual and Mixture Particles Effect**

ENGİN A. B.

in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, pp.165-193, 2021

**IX. Chapter 9: Nanoparticles and neurotoxicity: Dual response of glutamatergic receptors**

ENGİN A. B., ENGİN A.

in: Progress in Brain Research, Hari S. Sharma, Dafin Muresanu, Aruna Sharma, Editor, Elsevier, pp.281-303, 2019

**X. Chapter 8: What Is Lipotoxicity?**

ENGİN A. B.

in: Obesity and Lipotoxicity, Ayşe Başak ENGİN, Atilla ENGİN, Editor, Advances in experimental medicine and biology, pp.197-220, 2017

**XI. Chapter 22: The Interactions Between Kynurenine, Folate, Methionine and Pteridine Pathways in Obesity**

ENGİN A. B., ENGİN A.

in: Obesity and Lipotoxicity, Ayşe Başak ENGİN, Atilla ENGİN, Editor, Springer International Publishing, Switzerland, pp.511-528, 2017

**XII. Chapter 21: MicroRNA and Adipogenesis**

ENGİN A. B.

in: Obesity and Lipotoxicity, Ayşe Başak ENGİN, Atilla ENGİN, Editor, Springer International Publishing, Switzerland, pp.489-510, 2017

**XIII. Chapter 14: Adipocyte-Macrophage Cross-Talk in Obesity**

ENGİN A. B.

in: Obesity and Lipotoxicity, Ayşe Başak ENGİN, Atilla ENGİN, Editor, Springer International Publishing, Switzerland, pp.327-344, 2017

**XIV. Dermakozmetik/kozmesötik ürünlerin güvenliği**

KARAHALİL B., ENGİN A. B.

in: Dermakozmetik Kozmesötik Madde ve ürünler, E. Yasemin Yazan, Editor, Nobel tıp kitabevleri, İstanbul, pp.183-202, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

**I. The cross talk between complement components and neuro-immuno-metabolic pathways in in vitro Alzheimer's Disease model**

Engin A. B.

SOT 62th Annual Meeting & ToxExpo, Tennessee, United States Of America, 19 - 23 March 2023, pp.341

**II. Tek parçacık ICP-MS ile nanoparçacık karakterizasyonu ve miktar tayini**

Ertuş N., Engin A. B., Alp O.

Ulusal Spektroskopi Kongresi, Ankara, Turkey, 7 - 08 November 2019

**III. Sequential link between the neuronal death and high glucose-oligomeric amyloid beta toxicities**

ENGİN A. B., ENGİN E. D., GÜLBAHAR Ö., ARAL L. A., ENGİN A.

10th Immunotoxicology and chemical allergy speciality section (EUROTOX-ITCASS) face to face meeting, Milan, Italy, 16 - 17 September 2019

**IV. Indoleamine 2,3-dioxygenase-1 signalling response of the patients with chronic calculous cholecystitis**

ENGİN A. B., ENGİN E. D., IŞIK GÖNÜL İ., ENGİN A.

38th International Winter-Workshop on Clinical, Chemical and Biochemical Aspects of Pteridines, Innsbruck, Austria, 26 February - 01 March 2019

**V. The double-hit toxicity of obstructive jaundice on liver**

ENGİN A. B., ENGİN A., MEMİŞ L., BUKAN N.

SOT 58th Annual Meeting ToxExpo, Baltimore, United States Of America, 10 - 14 March 2019

**VI. Nanoantibiotics: A new therapeutic strategy for bacterial infections**

ENGİN A. B.

9th International Conference on Nanotoxicology, 18 - 21 September 2018

**VII. Glial cell culture**

ENGİN A. B.

Neuroscience Graduate Summer Workshop, Ankara, Turkey, 28 - 29 June 2018

**VIII. NEURONS: NMDA receptor mediated neuronal damage**

ENGİN A. B.

Neuroscience Graduate Summer Workshop, 25 June - 27 May 2018

- IX. **NMDA, AMPA and adenosine receptors mediated effects of methylmercury on dopaminergic neurons**  
ENGİN A. B.  
Swedish Toxicology Sciences Research Center, Swetox-Seminer, Södertälje, Sweden, 22 May 2018
- X. **C1q-CD59 Response of SH-SY5Y Cells in Insulin Resistance State**  
ENGİN A. B., Engin A., KARAKUŞ R.  
SOT 55th Annual Meeting ToxExpo, United States Of America, 11 - 15 March 2018, pp.497
- XI. **Immunotoxicological effects of exhaust emitted particles**  
ENGİN A. B.  
Seminer, Stokolm, Sweden, 25 May - 25 February 2018
- XII. **Hücre Kültüründe Hipoksinin ve Hipotermik Önşartlamanın Glial Demir Homeostazı ve Demir Taşıyıcı Proteinler Üzerine Etkileri**  
ARAL L. A., PINAR L., BELEN H. B., ERGÜN M. A., ENGİN A. B., BÖRCEK A. Ö.  
Ulusal Sinirbilim Kongresi, Turkey, 7 - 10 May 2017
- XIII. **Hücre Kültüründe Hipoksinin ve Hipotermik Önşartlamanın Glial Demir Homeostazı ve Demir Taşıyıcı Proteinler Üzerine Etkileri**  
ARAL L. A., PINAR L., belen h., ERGÜN M. A., ENGİN A. B., BÖRCEK A. Ö.  
Ulusal Sinirbilim Kongresi, Turkey, 7 - 10 May 2017
- XIV. **Effect of kynurenic acid on N-Methyl-D Aspartate Receptor-coupled glucose transporter-3 in SH-SY5Y dopaminergic neurons exposed to high glucose**  
ENGİN A. B., ENGİN E. D., ARAL L. A., GÜLBAHAR Ö., ENGİN A.  
36th International Winter-Workshop on Clinical, Chemical and Biochemical Aspects of Pteridines, Innsbruck, Austria, 21 - 24 February 2017, vol.28, pp.40
- XV. **Aspartate Receptor blockade by Kyurenic Acid on high glucose and insulin exposed SH-SY5Y human neuroblastoma cells.**  
ENGİN A. B., ENGİN E. D., ARAL L. A., GÜLBAHAR Ö., ENGİN A.  
SOT 55th Annual Meeting ToxExpo, Baltimore, United States Of America, 12 - 16 March 2017
- XVI. **the effect of NMDA receptor blockade by kyurenic acid on high glucose and insulin -exposed SH-SY5Y human neuroblastoma cells**  
ENGİN A. B., ENGİN E. D., ARAL L. A., GÜLBAHAR Ö., engin a.  
SOT 2017, 12 - 16 March 2017
- XVII. **Natural products and their mechanisms of ameliorating high fat diet-induced insulin resistance: Immunological aspects**  
ENGİN A. B.  
Expertise implementation in biomedical research by knowledge transfer to private companies in order to validate products and services in medical biotechnologies and health, Bükreş, Romania, 6 - 07 March 2017
- XVIII. **Immunotoxicological aspects of vehicle emitted exhaust particles exposure**  
ENGİN A. B., Zakharenko A., Tsatsakis A., Golokhvast K.  
Federal Scientific Centre of Hygiene named after F.F. Erisman of the Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing - Seminer, Russia, 24 October 2016
- XIX. **Basophil mediated chronic allergic inflammation in vehicle emitted particles exposure**  
Zakharenko A., ENGİN A. B., Chernyshev V., Chaika V., Ugay S., Nikiforov P., Andreev V., Drozd V., Nikitina A., Solomennik S., et al.  
Topics of Current Hygienic Importance in Nanotoxicology: Theoretical Premises, Hazards Identification and Ways of Their Attenuation, 21 - 22 October 2016
- XX. **Targeting nanoparticles to brain Impact of NMDA receptors**  
ENGİN A. B.  
8th International Nanotoxicology Congress, NANOTOX 2016, 1 - 04 June 2016
- XXI. **Diverse effect of glucose and insulin on the viability of SH SY5Y neuroblastoma cells**  
ENGİN A. B., KARAKUŞ R.  
SOT 55th Annual Meeting & ToxExpo, 12 - 17 March 2016

- XXII. **N methyl D aspartate and Adenosine receptor mediated effect of organic and inorganic mercury on SH SY5Y cell viability**  
ENGİN A. B., ENGİN E. D., Tsatsakis A., Golokhvast K.  
35th International Winter-Workshop on Clinical, Chemical and Biochemical Aspects of Pteridines, Austria, 23 - 26 February 2016
- XXIII. **Oxidative stress and liver injury in chronic cholelithiasis**  
Çeber G., ENGİN A. B., KURUKAHVEÇİOĞLU O., GÜLBAHAR Ö., UYAR GÖÇÜN F. P., Engin A.  
9. Türk Toksikoloji Derneği Kongresi - TurkHelTOX 2015, Turkey, 21 - 24 October 2015
- XXIV. **Yüksek glukoza maruz kalan SH SY5Y nöroblastoma hücrelerinde C1q uyarısı**  
ENGİN A. B., KARAKUŞ R.  
23. Ulusal Immunoloji Kongresi, Turkey, 26 - 30 April 2015
- XXV. **Alterations in the metabolic activity of SH SY5Y human neuroblastoma cells by glucose and insulin**  
ENGİN A. B., KARAKUŞ R.  
SOT 54th Annual Meeting & ToxExpo, 22 - 26 March 2015
- XXVI. **XPC Lys939Gln and XPD Lys751Gln polymorphisms, oxidative stress and Helicobacter pylori IgG seropositivity in colorectal carcinoma**  
ENGİN A. B., KARAHALİL B., Engin A., Karakaya A. E.  
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180
- XXVII. **XPC Lys939Gln and XPD Lys751Gln polymorphisms in gastric carcinoma patients**  
ENGİN A. B., KARAHALİL B., Engin A., Karakaya A. E.  
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180

## Episodes in the Encyclopedia

### I. Zinc and Zinc Compounds

Engin A. B.

John Wiley & Sons, West Sussex, UK , pp.1-35, 2023

## Supported Projects

ENGİN A. B., Project Supported by Higher Education Institutions, Koroner arter by pass KABG cerrahisi sırasında iskemi reperfüzyona bağlı gelişen oksidatif stressin değerlendirilmesi, 2011 - 2013

Karahalil B., Engin A. B., Karakaya A. E., TUBITAK Project, DNA Onarım Gen Polimorfizmlerinin Mide ve Kolorektal Kanserlerle İlişkisinin İncelenmesi, 2008 - 2009

SEPİCİ DİNÇEL A., ENGİN A. B., Project Supported by Higher Education Institutions, Kolorektal Kanserlerde Tümör İnvazyon Özelliği ile Serum Triptofan ve Neopterin Düzeylerinin İlişkisi, 2007 - 2009

SEPİCİ DİNÇEL A., ENGİN A. B., TUBITAK Project, Cerrahi Travmada Oksidan Stres ve Sitokin Serbestleşmesinde POSSUM Skorlama Sisteminin Tahmin Doğruluğuna Etkisinin Değerlendirilmeside Prospektif Randomize Çalışma: Ön Çalışma, 2005 - 2006

## Activities in Scientific Journals

NANOMATERIALS, Special Issue Editor, 2022 - 2022

Current Opinion in Toxicology, Special Issue Editor, 2021 - 2021

## Memberships / Tasks in Scientific Organizations

American College of Toxicology, Member, 2023 - Continues, United States Of America

## **Scientific Refereeing**

NEUROTOXICOLOGY, SCI Journal, April 2021

ENVIRONMENTAL RESEARCH, SCI Journal, March 2021

## **Metrics**

Publication: 123

Citation (WoS): 1213

Citation (Scopus): 1999

H-Index (WoS): 19

H-Index (Scopus): 24

## **Non Academic Experience**

Hacettepe Üniversitesi, Eczacılık Fakültesi, F. Toksikoloji A.B.D.