

## **Prof. AYŞE BAŞAK ENGİN**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AFF-8179-2022

ScopusID: 8502602600

Yoksis Researcher ID: 207696

### **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?  
ENGİN A. B., ENGİN A., ENGİN E. D., MEMİŞ 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 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)
- VIII. **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)
- 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. **DNA damage checkpoint response to aflatoxin B1**  
ENGİN A. B., Engin A.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.65, pp.90-96, 2019 (SCI-Expanded)
- XVI. **Nanoparticles and neurotoxicity: Dual response of glutamatergic receptors**  
ENGİN A. B., Engin A.  
NANONEUROPROTECTION AND NANONEUROTOXICOLOGY, vol.245, pp.281-303, 2019 (SCI-Expanded)
- XVII. **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)
- 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., KURUKAHVECİOĞLU 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., GÜNEYDIN R. Ö., Kesikli S. A., Fuchs D., Hosal A. S.  
PTERIDINES, vol.28, no.2, pp.91-95, 2017 (SCI-Expanded)
- XXIV. 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)
- 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. 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)
- XXVII. 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)
- 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., Shtarbergb 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. 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)
- XXX. 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)
- XXXI. 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)
- XXXII. 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)
- XXXIII. Helicobacter pylori and serum kynurenone-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)
- XXXIV. 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)
- XXXV. 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)
- 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. **Tryptophan and Cell Death**  
Engin A., ENGİN A. B.  
TRYPTOPHAN METABOLISM: IMPLICATIONS FOR BIOLOGICAL PROCESSES, HEALTH AND DISEASE, pp.31-54, 2015 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **Oxidative stress-induced endothelial cell damage in thyroidectomized rat**  
ENGİN A. B., SEPİCİ DİNÇEL A., İŞIK GÖNÜL İ., Engin A.  
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, vol.64, no.5, pp.481-485, 2012 (SCI-Expanded)
- XLIII. **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)
- XLIV. **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)
- XLV. **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 TOKSIKOLOGIJIU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY, vol.62, no.3, pp.207-214, 2011 (SCI-Expanded)
- XLVI. **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)
- XLVII. **Exposure to Helicobacter pylori and Serum Kynurenone 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)
- XLVIII. **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)
- XLIX. 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)
- L. Neopterine 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)

## 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. **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)
- IX. **Nutrigenomik Kişielleştirilmiş Diyet**  
ENGİN A. B., KADIOĞLU E.  
Gıda Güvenliği Dergisi, vol.3, no.1, pp.36-38, 2009 (Peer-Reviewed Journal)
- X. **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)
- XI. **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**  
ENGİN A. B., ENGİN A.  
in: Protein Kinase-mediated Decisions Between Life and Death, Engin Ayse Basak, Engin Atilla, Editor, Springer International Publishing, 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 Kynurenone, 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/kozmesöтик ürnlerin güvenliği  
KARAHALİL B., ENGİN A. B.  
in: Dermakozmetik Kozmesöтика Madde ve ürünler, E. Yasemin Yazan, Editor, Nobel tip 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  
Ertaş 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  
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- IV. Indoleamine 2,3-dioxygenase-1 signalling response of the patients with chronic calculous cholecystitis  
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- V. The double-hit toxicity of obstructive jaundice on liver  
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- VI. Nanoantibiotics: A new therapeutic strategy for bacterial infections  
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- VII. Glial cell culture  
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- VIII. NEURONS: NMDA receptor mediated neuronal damage  
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- IX. NMDA, AMPA and adenosine receptors mediated effects of methylmercury on dopaminergic neurons  
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- X. C1q-CD59 Response of SH-SY5Y Cells in Insulin Resistance State  
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- XII. Hücre Kültüründe Hipoksinin ve Hipotermik Önşartlamadanın Glial Demir Homeostazı ve Demir Taşıyıcı Proteinler Üzerine Etkileri  
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- XIV. **Effect of kynurenic acid on N-Methyl-D Aspartate Receptor-coupled glucose transporter-3 in SH-SY5Y dopaminergic neurons exposed to high glucose**  
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- XVIII. **Immunotoxicological aspects of vehicle emitted exhaust particles exposure**  
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- XX. **Targeting nanoparticles to brain Impact of NMDA receptors**  
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- XXI. **Diverse effect of glucose and insulin on the viability of SH SY5Y neuroblastoma cells**  
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- XXIII. **Oxidative stress and liver injury in chronic cholelithiasis**  
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9. Türk Toksikoloji Derneği Kongresi - TurkHelTOX 2015, Turkey, 21 - 24 October 2015
- XXIV. **Yüksek glukoza maruz kalan SH SY5Y nöroblastoma hücrelerinde C1q uyarısı**  
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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**  
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- XXVI. **XPC Lys939Gln and XPD Lys751Gln polymorphisms, oxidative stress and Helicobacter pylori IgG**

### **seropositivity in colorectal carcinoma**

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## **Episodes in the Encyclopedia**

### **I. Zinc and Zinc Compounds**

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## **Supported Projects**

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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: 105

Citation (WoS): 975

Citation (Scopus): 1038

H-Index (WoS): 16

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## **Non Academic Experience**

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