

## 2017-2018 EĞİTİM-ÖĞRETİM YILI PHAR 501 MEZUNİYET PROJESİ KONULARI

Project Name (Summary)	Type of project (T: theoretical, P: practical)	Number of students* (1/2)	Advisor
<p><b>1-Comparative Antioxidant Effect Of Some Turkish Olive Tree Products</b>  Scientific evidences have shown that beyond its rich nutritious value as a food; the leaves, fruits and fatty oil obtained from its fruits, Olive tree exerts a widespread of benefits to human health. Oleuropein and hydroxytyrosol are reported to be the main active components responsible from many of the healing benefits.  There are several types of Olive fruits and also different olive oils produced by various treatment technics having different tastes in the market.  Aim of this study is to comparatively evaluate the antioxidant potential of these marketed olive products before and after gastric simulation.</p>	Practical	Deniz SARI İrem ASLANALP	Prof. Dr. Erdem YEŞİLADA Assist. Prof. Dr. Engin CELEP
<p><b>2-Comparative Analysis Of Iridoid Contents Of Some Turkish Olive Tree Products</b>  The Olive (<i>Olea europaea</i> L.) is a small tree, which belongs to the family Oleaceae and is native to tropical and warm temperate regions of the world. The tree, well-known for its fruit, also called the olive, is commercially essential in the Mediterranean region as a most important source of olive oil.  Oleuropein and hydroxytyrosol, secoiridoid compounds, are present in the whole <i>Olea europaea</i> L. olive tree and its products (olive oil, olive mill waste water and pomace).  The aims of this study are assessed as follows:  a) Screening of oleuropein and hydroxytyrosol using an HPTLC method  b) Quantification of oleuropein and hydroxytyrosol using an HPLC method.</p>	Practical	Elçin İrem AKCAKOYUNLU Zeynep LEBLEBİCİ	Prof.Dr. Erdem YEŞİLADA Assist. Prof. Dr. Etil GÜZELMERİÇ
<p><b>3-Isolation and structure elucidation of secondary metabolites from <i>Sideritis germanicopolitana</i></b>  In the framework of this project, secondary metabolites such as flavonoids, phenylethanoid glycosides and iridoids will be isolated from the MeOH extract of <i>Sideritis germanicopolitana</i> by using common chromatographic techniques. The structures of the isolates will be elucidated by 1D and 2D NMR techniques as well as MS</p>	Practical	Murat ERDOĞAN Umur ERDEM1	Prof. Dr. Hasan KIRMIZİBEKMEZ
<p><b>4-The potential of Turkish Astragalus species for bioactive compounds</b>  There is a growing interest on the isolation of bioactive metabolites from <i>Astragalus</i> species across globe. The genus <i>Astragalus</i> (Fabaceae) is represented around 450 species in the flora of Turkey. It receives much attention due to its cycloartane type-saponins which were reported to possess interesting biological activities, including immunostimulant, cytotoxic and adjuvant activities. In this project, the recent (2005-) pharmacological and phytochemical studies on <i>Astragalus</i> species from flora of Turkey will be summarized</p>	Theoretical	Bensu YILDIZ	Prof. Dr. Hasan KIRMIZİBEKMEZ

<p><b>5-Estimation of heavy metal content of some fish oil capsules sold in Turkish market</b>  Fish oils are rich in omega-3 fatty acids which have many health benefits. Fish oil containing capsules are among the best-selling food supplements worldwide. On the other hand fish oils can be contaminated with heavy metals which accumulate in fish body from their environment. This project is aimed at investigating the levels of heavy metals (Hg, Cd, Pb) in the fish oil capsules that are commercially available in Turkey. The samples will be digested with a suitable acid mixture. The heavy metal concentrations will be measured by atomic absorption spectrophotometer</p>	Practical	Oben GÜL İpek ÖNEY	Prof. Dr. Hasan KIRMIZIBEKMEZ Assist. Prof. Dr. Muhammed HAMİTOĞLU Prof. Dr. Ahmet AYDIN
<p><b>6-Bioavailability studies of phenolic compounds in <i>Hypericum cerastoides</i> (SPACH) ROBSON.</b></p>	Practical	Sıla KILIÇ Osman Selim YILMAZ	Assist. Prof. Dr. Engin CELEP
<p><b>7-The use of natural products in obesity treatment</b></p>	Theoretical	Arzu DURMUŞLAR	Assist. Prof. Dr. Engin CELEP
<p><b>8-Specific Antidotes and Their Illustrative Presentation</b>  The aim of this project is to review specific antidotes which are used to treat specific poisoning and to prepare illustration for explaining their mechanism of action. In this frame, the information about specific antidotes will be searched and illustration of their mechanism of action will be prepared. After achieving of this aim, health care professionals can use this illustration very easily during their professional activities.</p>	Theoretical + Practical	Naime Şener	Prof. Dr. Ahmet AYDIN
<p><b>9-Meta analysis of Mycotoxin (Aflatoxin, Ocratoxin, e.t.c.) Contamination Studies in Turkey</b>  The aim of this project is to review and to do meta-analysis of published studies which were carried out in Turkey about mycotoxin contamination. In this frame, all the published documents will be searched and their meta-analysis will be done. After achieving of this study, mycotoxin contamination of Turkey will be determined and contamination trend will be found.</p>	Theoretical	Nezihe Keskin	Prof. Dr. Ahmet AYDIN
<p><b>10-Toxicological Evaluation of Electro Activated Water</b>  Electro activated water (EAW) is highly oxidizable disinfectant agent that is a good choice as a disinfectant and in many countries it is used commonly in a wide range of area such as food hygiene, agriculture and livestock, medicine, disinfection of restaurants, hotels and schools. The aim of this study is to evaluate the toxicity of EAW which is produced at different pH values and different chlorine concentrations.</p>	Practical	Gülenay ALYURT	Assoc. Prof. Dr. Hande SİPAHİ Prof. Dr. Ahmet AYDIN

<p><b>11-The association between gastrointestinal diseases and allergy</b></p> <p>There is growing appreciation for the role of the microbiome in immune regulation. Several studies have examined associations between changes in the commensal microbiota and the development of asthma, allergic rhinitis, and asthma. This review will mainly focus on the association between gastrointestinal diseases and food allergy and other allergic diseases.</p>	Theoretical	Simay ÖNCEBE	Assoc. Prof. Dr. Hande SİPAHI
<p><b>12-Assessment of botanical origin and phenolic profile of propolis from Black Sea Region, Turkey</b></p> <p>Propolis is a complex resinous product prepared by honeybees (<i>Apis mellifera</i> L.) from buds, sprouts and exudates of various plants after subjecting some enzymatic changes. The aims of this study are assessed as follows:</p> <ol style="list-style-type: none"> <li>1) investigation of HPTLC phenolic profile of propolis samples</li> <li>2) determination of botanical origin of propolis samples by simultaneous profiling of different bud extracts as potential botanical sources</li> <li>3) quantification of total phenol content and total flavonoids.</li> </ol>	Practical	Parla Işıl YÜKSEL Betül YAMAN	Assist. Prof. Dr. Muhammed HAMİTOĞLU Assist. Prof. Dr. Etil GÜZELMERİÇ
<p><b>13-Evaluation of mutagenic, antimutagenic and antioxidant activities of Turkish propolis</b></p> <p>Propolis is a honeycomb product having very diverse chemical composition and possessing a broad spectrum of biological activities. The aims of this study are assessed as follows:</p> <ol style="list-style-type: none"> <li>1) investigation of mutagenic and antimutagenic activities</li> <li>2) evaluation of antioxidant capacity using total antioxidant capacity (TOAC), Cupric Reducing Antioxidant Capacity (CUPRAC), 2,2-Diphenyl-1-picrylhydrazyl Free Radical (DPPH) Assays</li> </ol>	Practical	Büşra Naciye HAMİDİ Lütfi MANGAL	Assist. Prof. Dr. Muhammed HAMİTOĞLU Assist. Prof. Dr. Etil GÜZELMERİÇ
<p><b>14-Synthesis and antibacterial activities of aniline adducts with amino acid derivatives</b></p>	Practical	Ezgi TURCAN Sena AKTAŞ	Prof. Dr. Hülya AKGÜN
<p><b>15-Literature searches on drugs carrying urea functional group</b></p>	Theoretical	Miray BAHAROĞLU	Prof. Dr. Hülya AKGÜN
<p><b>16-Novel 3,5-Disubstituted-1,3,4-oxadiazole derivatives as promising potent anti-inflammatory</b></p> <p>In this study, student is expected to synthesize, purify and characterize new derivatives and evaluate their anti-inflammatory activity profile under supervision of the advisor.</p>	Practical	Emre KARAÇAYIR Elif Ayça DEDEOĞLU	Prof. Dr. Meriç KÖKSAL AKKOÇ
<p><b>17-Drug Interactions with Sport Supplements</b></p> <p>In this study, student is expected to review the most important interactions between generally used sport supplements and drugs in accordance with literature.</p>	Theoretical	Onur BAYRAKTAR	Prof. Dr. Meriç KÖKSAL AKKOÇ

<b>18-Advances in modifying and understanding whey protein functionality</b>	Practical	Başak ŞEN	Prof. Dr. Mine YARIM YÜKSEL
<b>19-New topical applications for treatment of burn wounds</b>	Theoretical	Fulya BÜYÜKAKSAKAL	Prof. Dr. Mine YARIM YÜKSEL
<b>20-Synthesis of Novel Piperazine Derivatives</b> Student is expected to synthesize, purify and characterize new compounds under supervision of the advisor. Project is a practical study along with a literature research which will be used for the graduation thesis.	Practical	Şilan ÇATAK Cemre İrem AYGÜLER	Assist. Prof. Dr. Enise Ece GÜRDAL
<b>21-Synthesis of Novel Benzothiazole Derivatives</b> Student is expected to synthesize, purify and characterize new compounds under supervision of the advisor. Project is a practical study along with a literature research which will be used for the graduation thesis.	Practical	Jülide Cansu KARAKOÇ İrem FADİLOĞLU	Assist. Prof. Dr. Enise Ece GÜRDAL
<b>22-Patient education guideline for Pharmacists and health care providers</b> (English & Turkish versions)	Practical	Selin SARIKAYA Ebru HAYDARGİL	Dr. Ahmed RADİ
<b>23-The effect of patient education in the outcomes of pharmacotherapy</b>	Theoretical	Eda ŞAMIÖZEN	Dr. Ahmed RADİ
<b>24-Electrochemical behavior of 5-Methyl-2-Benzoxazolinones</b> The purpose of this study is to elucidate the oxidation mechanism at glassy carbon electrode (GCE) by cyclic voltammetry (CV) for 5-methyl-2-benzoxazolinones derivatives in aqueous buffered solutions pH between 1 and 12. Based on experimental evidences, electrochemical behavior of 5-methyl-2-benzoxazolinone derivatives will be investigated and oxidation mechanism will be proposed. There will be experimental part in this project.	Practical	Büşra Arıcı	Assoc. Prof. Dr. Hayati ÇELİK
<b>25-Spectrophotometric determination of acid dissociation constant (pK<sub>a</sub>) values of some benzoxazolinone derivatives in buffered solution</b> The purpose of this study is to determine the acid dissociation constant values of some substituted benzoxazolinone derivatives by using spectrophotometric method. There will be experimental part in this project.	Practical	Ayşe Dilan EKEN Melis KÜPELİ	Assoc. Prof. Dr. Hayati ÇELİK
<b>26-Electrochemical behavior of 2,2'-Azobispyridine</b> The purpose of this study is to review the oxidation and reduction mechanisms of 2,2'-Azobispyridine. At the same time, zinc(II) and nickel(II) complexes of the azo compound will be survey in different solution media. There will be experimental and literature research parts in this project.	Theoretical / Practical	Necati NURLU	Assoc. Prof. Dr. Hayati ÇELİK
<b>27-Determination of drug active materials in pharmaceutical preparation by HPLC-DAD</b>	Practical	Seren Kadriye ÇETİN	Assist. Prof. Dr. Ebru TÜRKÖZ ACAR

<p><b>28-Investigation of light effect on storage conditions of some foods</b></p>	Practical	Vahide Miçooğulları	Assist. Prof. Dr. Ebru Türköz Acar
<p><b>29-Investigation of antioxidant activity by using EAW</b></p>	Practical	Mahmut Tugay Koşar	Assist. Prof. Dr. Ebru Türköz Acar
<p><b>30-Development of liposomes to reduce cancer resistance</b> Cancer cells evolve to be drug resistant or cross resistant. This is one of the major limitations of cancer therapies today. There are opportunities to overcome the resistance that develops. Liposomal formulation is one of the options. In this project, we will attempt to develop resistance overcoming liposomal formulation.</p>	Practical	Egemen Çakırlı Emre İncetaş	Assist. Prof. Dr. Muhammed Abdur Rauf
<p><b>31-Nanotechnology products for cancer diagnosis and treatment</b> Anticancer drugs possess severe side effects and many lead to therapeutic failure. The use of nanotechnology in cancer diagnosis and treatment focuses on destroying cancer cells with minimal damage to healthy tissue and organs. Most nanotechnology products are in the research and development stage. This study will overview the nanotechnology products for cancer diagnosis and treatment.</p>	Theoretical	Büşra Karaismailoğlu	Assist. Prof. Dr. Muhammed Abdur Rauf
<p><b>32-Continuous manufacturing in pharmaceutical industry</b> Conventional pharmaceutical production is batch production. The conversion of batch processes to continuous manufacturing is the future of the pharmaceutical industry. This involves the continuous flow, end-to-end integration of manufacturing sub-processes with a significant level of control strategies. Some of the benefits of continuous manufacturing over traditional batch processes are reduced waste and downtime with increased gross margin and profitability. This project will overview the continuous pharmaceutical manufacturing in comparison to batch manufacturing.</p>	Theoretical	Ali Can Kinli	Assist. Prof. Dr. Muhammed Abdur Rauf
<p><b>33-Self-preserving personal care products</b> Preservatives are chemical antimicrobials used in personal care products to prevent microbial spoilage, to improve shelf life of the product and to protect consumer against adverse microbial infection. Parabens, formaldehyde releasers, isothiazolinones, triclosan, betaines, urea-based preservatives, alcohols, acids, etc., are commonly used preservatives in personal care products. However, in recent times, questions on the safety of such popular preservatives have been on the rise. Formulation techniques have been reported to provide product preservation avoiding the usage of preservatives. This study will focus on such techniques.</p>	Theoretical	Mehmet Tuğberk Özsoy	Assist. Prof. Dr. Muhammed Abdur Rauf
<p><b>34- Development of Diagnostic Transdermal Drug Delivery Systems</b></p>	Practical	Gizem Ayan Begüm Özdengülsün	Assist. Prof. Dr. Gülengül Duman

<b>35- Development of Edible Film Formulation</b>	Practical	Duygunur BAYAR Sezai Ömer ÇALIŞKAN	Assist. Prof. Dr. Güleğül DUMAN
<b>36- Biopharmaceutical Manufacturing</b>	Practical	Ariyen FARŞI Efe KÜÇÜK	Assist. Prof. Dr. Güleğül DUMAN Prof. Dr. Meriç KÖKSAL AKKOÇ
<b>37 Characterization of Nanoparticle Formulation</b>	Practical	Tuğçe DEMİRSOY Ayşe Demre BİNBOĞA	Assist. Prof. Dr. Güleğül DUMAN
<b>38-The antidepressant and analgesic effects of Methylphenidate in mice.</b>	Practical	İpek DURAK Belgin ÇIRAK	Prof. Dr. Turgay ÇELİK
<b>39-The analysis of constipation in Turkish patients as a side effects of medicine.</b>	Practical	Ece ÖZDEMİR Nur Melis ÜNSALAR	Prof. Dr. Turgay ÇELİK
<b>40-Structure similarity search of marketed anti-inflammatory and antidepressant drugs</b> Depression has been described to be comorbid with anti-inflammatory diseases. In this project the structures of marketed anti-inflammatory and antidepressant drugs will be classified according to their structure. A structure similarity search will then be carried out in order to determine if any similar molecular pathway could be involved for both of the diseases.	Practical	Barış TUNCER	Assoc. Prof. Dr. Esra ÖNEN BAYRAM Assoc. Prof. Dr. Hande SİPAHİ
<b>41-Electrical conductivity and pKa values</b> This project will be a literature review that will analyze the possible correlation between the changes in pKa values and electrical conductivity. The consequences of inductive electronic effects on the mobility of a proton is well-known for short distances. Herein pharmacophores for which substitution induces outstanding pKa changes will be first examined. In a second part, the use of these pharmacophores for conductive biomaterials will be investigated.	Theoretical	Zeliha Betül ER	Assoc. Prof. Dr. Esra ÖNEN BAYRAM
<b>42-Thalidomide and its analogues as therapeutic agents</b> Thalidomide, an isoindoline-1,3-dione derivative, is known for its catastrophic side effects that led to malformations in many newborns. These dramatic consequences ended up with a market withdrawal in early 60s. However, given its high efficiency, thalidomide is still prescribed for the treatment of cancer and leprosy. This review will focus on this immunomodulatory molecule's molecular mechanism of action and the development of its analogues for the generation of new therapeutic agents.	Theoretical	Bengisu YÜNKÜL	Assoc. Prof. Dr. Esra ÖNEN BAYRAM
<b>43-Latest Development of Alzheimer Diseases</b>	Theoretical	Buğrahan GÜLTEKİN	Prof. Dr. Hülya AKGÜN

<b>44-Fluoride toothpastes or fluoridated toothpastes is safe for human cognitive behaviors?</b>	Practical	İlke KUŞATMAN Övgü KAZANÇ	Prof. Dr. Turgay ÇELİK
<b>45-New approaches in bronchopulmonary dysplasia</b>	Theoretical	Damla ÜNLÜ	Prof. Dr. Mine YARIM YÜKSEL
<b>46-Targeting Casein Kinase in Cancer</b>	Theoretical	Sabiha Merve KARADURAN	Assist. Prof. Dr. Enise Ece GURDAL HAKGÖR
<b>47-Metabolite Analysis</b>	Theoretical	İremnur KARTALLIOĞLU	Assist. Prof. Dr. Ebru TÜRKÖZ ACAR
<b>48-Clinically significant drug interactions and their management</b>	Theoretical	Aleyna Buse BEKÇİ	Dr. Ahmad RADİ
<b>49- The Story of Viracept</b> Viracept is a protease inhibitor, used in the treatment of HIV. In May 2007 patient reported a strange smell of Viracept tablets. High level of impurity of ethyl methanesulfonate (EMS) was found in batches of Viracept produced in early 2007. EMS is a mutagenic, carcinogenic and teratogenic agent. All batches of Viracept on the market were recalled and marketing authorization was suspended. In August 2008, marketing authorization of Viracept was re-established. This review will focus on whole aspects of this story.	Theoretical	Kübra DEMİR	Yrd. Doç. Dr. Muhammed HAMİTOĞLU

\*Projelerde ismi geçen öğrenciler öğretim üyelerimiz tarafından bildirilen isimler olup, bunların dışında kalan proje konuları öğrenci işleri sekreterliğinde bulunan mezuniyet projesi tercih dilekçesi doldurularak en geç **20 Eylül 2016 Çarşamba** günü mesai bitimine kadar Öğrenci İşleri Sekreterliğine teslim etmeleri gerekmektedir.