

2016-2017 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>1. Comparison of phenolic composition in marketed bee pollen Recent scientific evidences have proven that Apitherapy is an effective tool to protect health and to treat diseases. Among the beehive products "Bee pollen" is evidenced to possess a wide range of pharmacological effects. Aim of this practical study is to demonstrate the diversity in phenolic composition of bee pollen in marketed products by using experimental techniques.</p>	Practical	Bahar YILDIZ Seren HAKSEVER	Prof. Dr. Erdem YEŞİLADA
<p>2. Effect of volatile oils in brain performance Improvement in brain functions such as to enhance memory potential, working capacity, perception, concentration, etc. is one of the most important area in pharmaceutical market. Many types of herbal products, including volatile oils have been suggested for such effects. This study aimed to find scientific evidences, i.e. experimental and clinical studies, to support such utilization.</p>	Theoretical	Ceren KOÇER	Prof. Dr. Erdem YEŞİLADA
<p>3. Lozange formulation containing Propolis and Apple Cider</p>	Practical	Nimet BÜYÜKGÜÇLÜ Deniz AKYEL	Prof. Dr. Erdem YEŞİLADA
<p>4. Formulation Development of Herbal Extract Cream</p>	Practical	Feyza BİRİCİK Buket SOYDEMİR	Prof. Dr. Erdem YEŞİLADA Assist. Prof. Dr. Gülengül DUMAN
<p>5. Isolation and structure elucidation of secondary metabolites from Goji berry In the framework of this project, secondary metabolites will be isolated from the MeOH extract of Goji berry (<i>Lycium barbarum</i>) by using common chromatographic techniques. The structures of the isolates will be elucidated by UV, IR, 1D and 2D NMR techniques as well as MS.</p>	Practical	Ozan ŞEN Aycan SALMAN	Prof. Dr. Hasan KIRMIZIBEKMEZ

<p>6. Reishi mushroom: Fact or fiction (Pharmacological, phytochemical and clinical studies on Reishi mushroom)</p> <p>The aim of this project is to compile the recent (2005-) phytochemical, pharmacological and clinical studies on Reishi mushroom (<i>Ganoderma lucidum</i>). <i>G. lucidum</i> has long been used in oriental medicine for the treatment of several diseases. Over the past several decades, a considerable amount of research has shown that numerous pharmacological compounds contained in <i>G. lucidum</i> have anti-cancer, anti-diabetic, anti-hepatotoxic, and immunomodulatory properties. This review will shed a light into health benefit effects of Reishi mushroom based on scientific literatures.</p>	Theoretical	Deniz TATAR	Prof. Dr. Hasan KIRMIZIBEKMEZ
<p>7. Development of a new natural antiseptic mouthwash preparation</p> <p>In this project a new mouthwash formulation will be developed which might be used to reduce plaque formation and relieve gum diseases. The main aim of the project will be the development of a new antimicrobial solution that will contain natural antimicrobial essential oils (i.e. sage oil, origani oil, clove oil, peppermint oil, bay leaf oil) and natural colorants. Furthermore, suitable formulations of natural soybean phospholipid vesicles will be developed to improve the solubility and stability of essential oils. The different phospholipids (natural or synthetic) are going to be used to prepare liposomes.</p>	Practical	Ezgi DOĞRUEL Sühan VURAL	Prof. Dr. Hasan KIRMIZIBEKMEZ
<p>8. Genoprotective activity of <i>Nigella sativa</i> (çörek otu) and <i>Nigella damascena</i> (Şam çörek otu) against aflatoxin B1 induced mutagenicity.</p> <p><i>Nigella sativa</i> often called black cumin, is an annual flowering plant in the family Ranunculaceae. The pharmacological actions of the crude extracts of the seeds that have been reported include protection against nephrotoxicity and hepatotoxicity induced by either disease or chemicals. The seeds/oil have antiinflammatory, analgesic, antipyretic, antimicrobial and antineoplastic activity. In addition, seeds of <i>Nigella damascena</i> have been used for culinary and medicinal purposes. Aflatoxins (AFs) , a group of foodborne carcinogens produced by the molds <i>Aspergillus flavus</i> and <i>parasiticus</i> and their metabolism products, have been implicated in the etiology of human liver cancer This project will be investigated the antimutagenic activity of <i>Nigella sativa</i> and <i>Nigella damascena</i> against aflatoxin B1 (AFB1). The antimutagenicity will be evaluated by Ames test performed on <i>Salmenolla</i> strains.</p>	Practical	Emine ATASOY Pınar ŞİMŞEK	Prof. Dr. Hasan KIRMIZIBEKMEZ Assist. Prof. Dr. Muhammed HAMİTOĞLU

<p>9. The role of “in vitro simulation of gastrointestinal digestion” method in plant research: A review</p>	Theoretical	Melis Nilgün VURAL	Assist. Prof. Dr. Engin CELEP
<p>10. The effect of in vitro simulation of GI digestion in the antioxidant capacity of Hypericum perforatum</p>	Practical	Nimet Ezgi GÜNAL Bengü TONBA	Assist. Prof. Dr. Engin CELEP
<p>11. Safety profile of Biosimilar Drugs Biosimilars are similar biological products, comparable but not identical to the reference product, are not generic version of innovator product and do not ensure therapeutic equivalence. This review will mainly focus on the safety assessment of biosimilar drugs.</p>	Theoretical	Deniz DURSUN	Prof. Dr. Ahmet AYDIN
<p>12. Estrogenic activities of bottled water samples after storage under different conditions and different length of times. Estrogenic disrupting compounds (EDCs) identified in river water and in drainage water. The aim of this study is to investigate estrogenic activities of bottled water samples after storage under different conditions and different length of times.</p>	Practical	Ayşe Yağmur BAŞKALEM Ceren Gamze GÖKGÖNÜL	Prof. Dr. Ahmet AYDIN Assoc. Prof. Dr. Hande SİPAHI
<p>13. Reproductive and Developmental Toxicity Potential of Fenugreek Trigonella foenum-graecum L. (fenugreek, cemen otu) is a plant which belongs to Papilionaceae family. The plant is extensively cultivated in India and Northern Africa. Fenugreek is used for many medical purposes such as stomach disorders, diabetes, fever, anemia and constipation. It has also been reported that fenugreek has hypocholesterolaemic, antifungal and immunomodulatory effects. In Turkey, fenugreek is also used as a flavoring nutrient in pastirma which is commonly consumed by Turkish population. There are some reports regarding to reproductive and developmental toxicity potential of fenugreek. In this project, we will study the reproductive and developmental toxicity potential of fenugreek in details and try to identify safety of fenugreek consume during pregnancy.</p>	Practical	Burak DEMİR	Prof. Dr. Ahmet AYDIN Assist. Prof. Dr. Muhammed HAMİTOĞLU

<p>14. Anti-inflammatory activities of Okra (<i>Abelmoschus esculentus</i>) grown in Turkey The fruits of <i>Abelmoschus esculentus</i> (Okra; Bamya) have been consumed as food in many parts of the world. Fruits have also been used in the treatment of gastric lesions and inflammatory diseases in folk medicine for many years. For this purpose, this project plans to investigate the in vitro anti-inflammatory activities of the different concentrations of okra extracts on RAW264.7 murine macrophage cell line in vitro.</p>	Practical	Cemre ŞENYÜZ	Assoc. Prof. Dr. Hande SİPAHİ
<p>15. Anti-inflammatory activities of olive seed consumed by Turkish population Olive has been consumed by Turkish population in a wide range of area and it is an important part of traditional breakfast. In addition to its fruits and oil, olive seeds have also been used in the symptomatic relief of gastric disturbances in folk medicine for many years. For this purpose, this project plans to investigate the anti-inflammatory activities of the different concentrations of olive seed extracts in vitro.</p>	Practical	Nur ÇELİK Gülşah ZEYBEKOĞLU	Assoc. Prof. Dr. Hande SİPAHİ
<p>16. Evaluation of market withdrawal of pharmaceutical products Economic factors, market dynamics, and safety issues are largely responsible for decisions to withdraw pharmaceutical products from the market. This review will examine the reasons of withdrawal from the market.</p>	Theoretical	Hasan KAHRAMAN	Assoc. Prof. Dr. Hande SİPAHİ
<p>17. A review of epigenetic side-effects of pharmaceuticals Epigenetics is the study of cellular and physiological phenotypic trait variations that result from external or environmental factors that switch genes on and off and affect how cells express genes. It is becoming increasingly apparent that chemicals can cause changes in gene expression that persist long after exposure has ceased. Pharmaceutical drugs can cause such persistent epigenetic changes. Drugs may alter epigenetic homeostasis by direct or indirect mechanisms. DNA damaging chemicals also cause considerable alters the epigenetics. This can lead to a better understanding of long-term side-effects of drugs, and that in the future, epigenetic assays should be incorporated into the safety assessment of all pharmaceutical drugs. In this review, we will provide an overview of this potentially major new field in pharmacology and medicine.</p>	Theoretical	Seren SELÇUK	Assist. Prof. Dr. Muhammed HAMİTOĞLU

<p>18. Comparative evaluation of the neuroprotective effect against methyl mercury of <i>Nigella sativa</i> (çörek otu) and <i>Nigella damascena</i> (Şam çörek otu).</p> <p><i>Nigella sativa</i> (<i>N. sativa</i>) (Ranunculaceae) is a widely used medicinal plant throughout the world. The seeds of <i>N. sativa</i> have been used in the treatment of different diseases and ailments. Extensive studies on <i>N. sativa</i> have been carried out by various researchers and a wide spectrum of its pharmacological actions have been explored which may include antidiabetic, anticancer, immunomodulator, analgesic, antimicrobial, anti-inflammatory, spasmolytic, bronchodilator, hepato-protective, renal protective, gastro-protective, antioxidant properties, etc. In addition, seeds of <i>Nigella damascena</i> have been used over the centuries as an aid in digestion and they are also used in cooking. This project will be focused on the neuroprotective effect of the extracts, fixed oils and essential oils from the seeds of the <i>N. sativa</i> and <i>N. damascena</i> against methyl mercury in rat brain mitochondrial enriched fraction.</p>	Practical	Yağmur ŞAHİN	Assist. Prof. Dr. Muhammed HAMİTOĞLU
<p>19. Antibacterial activity of Kojic acid derivatives</p> <p>Kojic asit ve uygun seconder aminlerin manniş bazları hazırlanarak anitbakterial aktiviteleri incelenecek.</p>	Practical	Emin AĞAYEV	Prof. Dr. Hülya AKGÜN
<p>20. The antibacterial activities of 2,4-dicholoro and 2,3-difluoro benzaldehyde adducts with amino acids</p> <p>2,4-dikloro ve 2,3-difluoro benzaldehit'in çeşitli amino asit türevleri hazırlanarak antibakterial aktiviteleri incelenecek.</p>	Practical	Rümeysa KOÇAK	Prof. Dr. Hülya AKGÜN
<p>21. Synthesis and Anticancer Activity Studies of Novel Benzothiazole-Piperazine Derivatives</p> <p>In this study, student is expected to synthesize, purify and characterize new Benzothiazole-Piperazine derivatives under supervision of the advisor.</p>	Practical	Helin DÖLEK	Prof. Dr. Meriç KÖKSAL AKKOÇ
<p>22. Synthesis and Anticancer Activity Studies of Novel Piperazinylpyrimidine Derivatives</p> <p>In this study, students are expected to synthesize, purify and characterize new derivatives piperazinylpyrimidine under supervision of the advisor.</p>	Practical	Ayşe DELİBAŞ Çiğdem GÜZEL	Prof. Dr. Meriç KÖKSAL AKKOÇ

23. Development of new topical hemostatic agents for military and civilian open wounds, examining the effectiveness and applicability	Practical	Can ÖZKUBAT	Prof. Dr. Mine YARIM YÜKSEL
24. Design and synthesis of some new benzothiazole compounds	Practical	Nur Ali SİS	Prof. Dr. Mine YARIM YÜKSEL
25. Synthesis and Activity Studies of Novel Piperazine Derivatives 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	Elif Tuğçe ERTEM Bengisu ERBAŞ	Assist. Prof. Dr. Enise Ece GÜRDAL
26. Synthesis and Activity Studies of Novel Naphazoline Derivatives 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	İbrahim KELEŞ	Assist. Prof. Dr. Enise Ece GÜRDAL
27. Drug Regulatory Approval Process	Theoretical	Elif VAİZOĞLU	Prof. Dr. Turgay ÇELİK
28. Incidence of adverse drug events in Public hospitals in Istanbul, Turkey	Practical	Aslıhan YILMAZ Gizem TOKTA	Dr. Ahmed RADİ
29. Novel non-vitamin K antagonist oral anticoagulants	Theoretical	Gizem TOPALOĞLU	Dr. Ahmed RADİ
30. Novel drugs and drug combinations for treating tuberculosis	Theoretical	Büşra ÇİLOĞLU	Dr. Ahmed RADİ
31. Electrochemical behavior of organic drug candidate compounds The purpose of this study is to elucidate the oxidation and reduction mechanisms at glassy carbon electrode (GCE) by cyclic voltammetry (CV) and the dropping mercury electrode (DME) by polarography for organic drug candidate compounds in aqueous buffered solutions pH between 1 and 12. Based on experimental evidences, electrochemical behavior of organic drug candidate compounds will be investigated and both oxidation and reduction mechanisms will be elucidated. There will be experimental and literature research parts in this project.	Practical	Ceren KURTUL	Assoc. Prof. Dr. Hayati ÇELİK

<p>32. Literature survey on Chloral The purpose of this study is to collect the information about chloral molecule which has been synthesized through chlorination of ethanol, and initially used as a hypnotic, sedative and anticonvulsant drug, but recently several new applications have been recognized. It found applications as a sedative in pediatric patients and as an anesthetic in treatment of laboratory animals and in control of some forms of epilepsy.</p>	Theoretical	Ahmet Emin BARAN	Assoc. Prof. Dr. Hayati ÇELİK
<p>33. Determination of the some vitamins in a food sample A new determination method will be developed and validated by using HPLC. After validation step the method will be applied on food samples.</p>	Practical	Melis ÖZCAN Nazlı Çağla YEŞİL	Assist. Prof. Dr. Ebru TÜRKÖZ ACAR
<p>34. Application of Mandel Test In this study students will use a method developed by us and they will investigate the application of the Mandel Test to different number of sample in same concentration range.</p>	Practical	Merve ZOROĞLU Erdil POLAT	Assist. Prof. Dr. Ebru TÜRKÖZ ACAR
<p>35. Capillary Electrophoretic Separation of Enantiomers by using different reagents: In this study, students will investigate different enantiomer structures in capillary electrophoresis and try different chemical reagents which can separate enantiomers.</p>	Practical	Tuba AKATAY	Assist. Prof. Dr. Ebru TÜRKÖZ ACAR
<p>36. Non-Injectable Insulin Preparations</p>	Theoretical	Soner KARAMAN	Assist. Prof. Dr. Muhammed Abdur RAUF
<p>37. Protein Drugs Bioencapsulated in Plant Cells for Oral Delivery</p>	Theoretical	Ece Merve BULUT	Assist. Prof. Dr. Muhammed Abdur RAUF
<p>38. Weight Loss Strategies and Genetic Variants</p>	Theoretical	Tuğçe AYDIN	Assist. Prof. Dr. Muhammed Abdur RAUF
<p>39. Microencapsulation of Natural/Essential oils for Cosmetic Applications</p>	Practical	Elvin Nihal ÇELENK Sümeyra ALTUNCUOĞLU	Assist. Prof. Dr. Muhammed Abdur RAUF
<p>40. Protein Stability Studies</p>	Practical	Kamber ÇELİK Başak Cansu ALBAYRAK	Assist. Prof. Dr. Gülelgül DUMAN
<p>41. Wound Healing Studies</p>	Practical	Deniz NOYAN Cem GÜRBÜZ	Assist. Prof. Dr. Gülelgül DUMAN
<p>42. Compounding Pharmacy: Case studies</p>	Practical	Mert ÖZKURT Cem GÜNDÜZ	Assist. Prof. Dr. Gülelgül DUMAN

43. Cardiovascular Risks Of New Drugs Used In Diabetes Mellitus Treatment	Theoretical	Merve Özdemir	Prof. Dr. Turgay ÇELİK
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*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 **21 Eylül 2016 Çarşamba** günü mesai bitimine kadar Dekan Sekreterliğine teslim etmeleri gerekmektedir.

2016-2017 EĞİTİM-ÖĞRETİM YILI PHAR 502 MEZUNİYET PROJESİ KONULARI

Project Name (Summary)	Type of project (T: theoretical, P: practical)	Number of students* (1/2)	Advisor
1. Side effects of medicine in geriatrics	Theoretical	Nejdet AYGAN	Prof. Dr. Turgay ÇELİK
2. <i>In vivo</i> and <i>in vitro</i> Activity Screening Methods for an Antiinflammatory Agent	Theoretical	Mert GÜNAY	Prof. Dr. Meriç KÖKSAL AKKOÇ
3. The role of “in vitro simulation of gastrointestinal digestion” method in plant research: A review	Theoretical	İbrahim ŞENKUN	Assist. Prof. Dr. Engin CELEP