



Of Inversity October University for Riodern Sciences and Arts Established by Dr. Nawai El Degwi in 1996



Faculty of Pharmacy

Graduation Projects Book 2016/2017



Organization Committee

Prof. Dr. Hanan El Laithy

Dean of Faculty of Pharmacy

Graduation Project Coordinators

Dr. Ghada Refaat

Dr. Maha Kamal

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Edited By

Souha Hussam

Sherine Gamal





"MSA University would like to recognize and celebrate the outstanding achievements of pharmacy students and their great participation in the development of the pharmaceutical field. We are very proud of our students. They exceled in their field and positively contributed to their community."

> Graduation Project Committee Spring 2017





Dear Graduating Students,

"Congratulations Dear Pharmacy seniors, it is such a pleasure to celebrate your success and outstanding achievements. You have set the highest goals and realized great progress. As you start your journey, the first thing you should do is throw away that storebought map and begin to draw your own. Wishing you all a future filled with brightest blessings.



Dr. Nawal El-Degwi Head of board of trustees of MSA University

Now it's time for you to move on to what's next. But you must not let anything deter you from taking those first steps. Don't spend so much time trying to choose the perfect opportunity, that you miss the right opportunity. Recognize that there will be failures, and acknowledge that there will be obstacles. But you will learn from your mistakes and the mistakes of others, for there is very little learning in success.

This year, you have completed your journey as a students, but the journey will never end at MSA University, as we support our graduated students and will always be there celebrating your success. Your success makes MSA's worldwide recognition a reality; as you will all be receiving a British equivalent degree from our partner "University of Greenwich", you have undoubtedly took a leap and have an edge over your counterparts. MSA University is so proud of your hard work and great achievements therefore we decided to launch an abstract book for graduation project. A book that includes essence of your hard work,, and documents your progress to encourage future seniors.

At MSA University there are no Goodbyes, as we wholeheartedly looking forward to witness your success. All the best my dear students, we are so proud of you!"





Dear Graduating Students,

"On the behalf of all MSA University and all of you lecturers and teaching assistants, I congratulate you deeply on your approaching graduation. Our focus here has been to enable you to succeed on all aspects that a multitude of hardware and software

technologies, exclusive to MSA Pharmacy students, have been readily available to you, along with



Prof. Dr. Khayri Abd El Hamid President of MSA University

our well-equipped facilities and highly qualified staff that has helped us bolster your skills and post your capabilities.

We'd also like to sincerely thank all of our faculty members who are always there, not only to handle the academic aspect of student life, but also to tackle social issues and offer there whenever needed. I have to say they have been working tirelessly to ensure your success.

Our mission is to ensure that the latest trends are applied to core curricula and the academic facilities. MSA also takes pride in its diversified cultural accomplishments that aim to help new graduates after graduation. I truly believe you will witness a great demand due to the quality of your education and hands-on experience.

I'm very proud of all of you and of all your achievements, and am confident that there are more achievements to come from you."





Dear Seniors 2017,

"I am honored to witness the end of an educational journey and the beginning of a new one. We share a bitter sweet moment. Not long ago our graduates came here for the first time as freshmen students and we watched them grow into responsible young adults.



Prof. Dr. Hanan El-Leithy Dean of Faculty of Pharmacy MSA University

Class of 2017, you will be greatly missed.

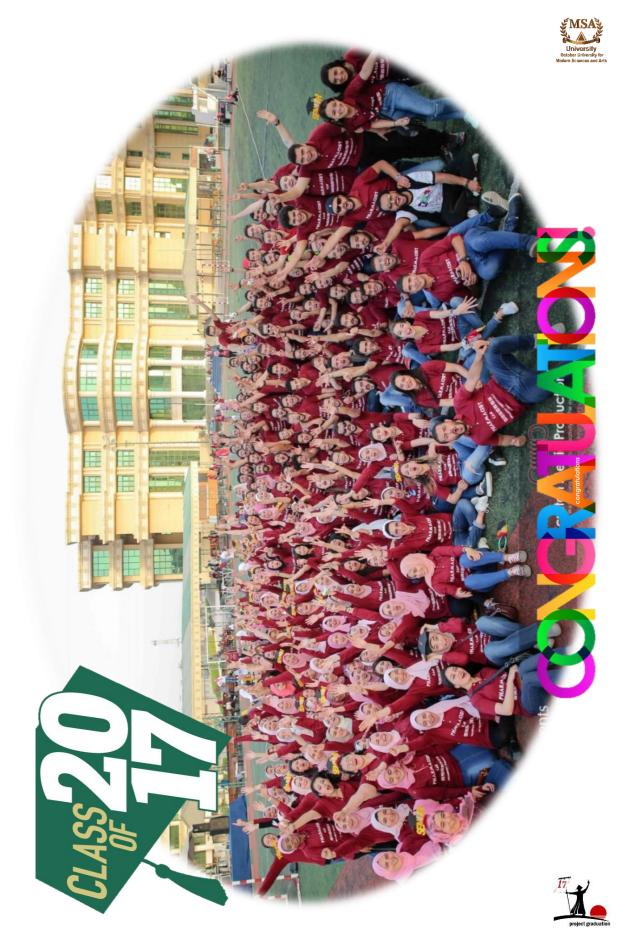
Our graduates have worked hard throughout 5 years to reach the level we are proud to present in this year's graduation projects.

MSA curricula provide the latest scientific theories alongside the necessary practical training. We were also keen on enhancing computer, presentation and communication skills through interactive assignments, awareness campaigns and scientific events. What our students have done in their projects resembles what many postgraduate programs offer.

I believe that our graduates leave us armed with the knowledge, the experience and the drive to make an impact.

Finally, I would like to say to class 2017, Follow your passion, proceed with confidence, your future awaits. You have made your parents, university and yourself proud, CONGRATULATIONS!"







Acknowledgments

On Behalf of MSA University, we wish to thank the following respectable institutes for their generous contributions to the graduation projects. We are indeed grateful to you for your enthusiastic support.







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Guests' Quotes

"The students here are well trained, they are well educated, and they are taught in some impressive facilities and engage in some world leading research which is of relevance to the Egyptian people. Overall, it has been a very interesting visit and we are looking forward to coming back in future times." **Prof. Pe**



Prof. Peter Griffiths Head of Department for Chemical, Pharmaceutical and Environmental Sciences, University of Greenwich



Dr. Samer El Daher Link tutor for MSA collaboration with University of Greenwich and Head of Life Sciences & Sports Department in the University of Greenwich

"Our Collaboration extends for a number of years. Ten years now and I have been involved with MSA all that time since the collaboration. What we like to do is complement that by involving them in a large number of research projects. Up to date, they have improved very much and they

have contributed greatly to our Key Performance Indicators both in MSA and University of Greenwich. Overall, I am extremely impressed with the students, the staff and everybody in MSA."

"I am impressed with the quality of work, standard of education and the care the students get here in the University, whether it is facilities, faculties, available shops, libraries, labs, Wi-Fi services, etc... I am very impressed."



Dr. Maan Al Gaillani Resident Representative of the University of Greenwich in MSA







"I am very proud of what I've seen, and I've noticed a gradual progression over the years that have shown excellent quality students that are graduating from MSA, Cairo."

Dr. Andrew Mendham Senior Lecturer, University of Greenwich

"I am really enjoying being here as an external examiner. I liked the quality of the course and I've really enjoyed watching some of the absolutely excellent presentations on research projects. So I am looking forward to coming back."



Dr. Nik Buurma Lecturer, Cardiff University



"I was impressed with their performance and skills, whether it being preparing posters or doing oral presentations. In fact, this is something special for MSA University and it is a great privilege. I appreciate all the staff members' efforts to bring such an eventful day that was strongly impressive to all

Prof. Dr. Khaled Abouzid Professor of Pharmaceutical chemistry, Vice dean of learning and students affairs, Faculty of Pharmacy – Ain Shams University

attendees"

I am impressed by the presented projects; the students are skilled and well-educated. It's a unique and fruitful experience at Faculty of Pharmacy, MSA to incorporate graduating students in a real research practice to solve out issues that are currently exposed to Egypt or worldwide. Moreover, MSA is keen on linking the

students' projects with pharmaceutical companies which boost the quality of their research.



Prof. Dr. Hossam Aboul Enein CEO, SEDICO Pharmaceutical Company







"The detection of viruses mainly depends on genetic engineering and molecular biology. The "National Conference on Biochemistry and Molecular Biology" is an annual conference held this year in MSA, for the university's leading role in research and medical advancements"

Dr. Mahmoud Sakr President of the Academy of Scientific Research & Technology

"I'm overwhelmed with the sophisticated performance shown by students. I never expected that students would be able to show quality, organization, discipline and outstanding presentation skills. Based on the presentations that I've witnessed, I believe that MSA Pharmacy students have a distinctive future in the Egyptian Pharmaceutical market."



Dr. Yosry Abdallah Director of Training Department, SEDICO Pharmaceutical Company



"MSA, as usual, cares about modern science and new Pharmaceutical fields in Egypt."

Dr. Hadeer Rostom Director of the Egyptian Pharmaceutical Vigilance Centre

"I appreciate the positive attitude of MSA in collaborating with different Pharmaceutical Companies, which provides the students with courses and trainings that are important to the faculty, the patient and the pharmaceutical industry in general."



Dr. Azzam Mahran Medical Director, SEDICO Pharmaceutical Company





Alumni's Quotes

"Years at MSA, faculty of pharmacy, were meant to be experienced not captured! And the most beautiful, important part of MSA's culture was its people!"



Mohamed El-Tabei, 2015 Marketing specialist assignee at Eva Pharma



"The Faculty of Pharmacy at MSA University is a light house amidst the turbulent ocean of academia. It is a beacon of guidance for those who seek it, and a place which allows you to harness your raw talents and develop skills that will surely contribute to your

success in life."

Mohammed Ali Hassan, 2016 King Faisal Specialist Hospital and Research Centre - KSA

"Nobody graduated from our faculty not wishing to go back. We take every opportunity to visit the faculty and the friendly staff members. I wish I could go back and spend all this time all over again.



Iman Elkhashab, 2011 ElMostakbal Medical Center, AlShorouk







"MSA acquires us most of qualifications and skills required to improve our characters and participate through the community in ideal efficient way. Whether it being marketing, managing, consulting or research field, MSA made us able to compete with other graduates in different fields. Continuous learning, consulting, development, and communication made its graduates feel that MSA is

Ibrahim Abo-El magd, 2014 Owner & Manager of Community Pharmacy MSc student of Analytical Chemistry not just a university, but it is a real family who stand with us through each step in our career. We feel proud to be graduated from MSA."

"I applied for a project manager assistant position in an NGO called Egyptian college for critical care physicians. And there I met Prof. Dr. Sherif Mokhtar, the god father of the critical care medicine in Egypt and the Middle East. On the day I was presenting my new approaches, I recalled

every presentation I did on the faculty's campus. In the middle of my presentation, that Kasr AlAiny critical care department professors and doctors were attending, Prof.

Dr. Sherif interrupted me saying, "Where have you graduated from again Dr. Lina?" I replied spontaneously, "MSA". He smiled back and said, "It looks like a great place to learn at. Welcome to my team as our new project manager." I can't describe the happiness, pride and the overwhelming feelings of success and gratitude I felt to MSA at this moment."



Lina Omar, 2012 Project manager of Egyptian cardiac arrest project, ECCCP







Honors

"Intellectuals solve problems. Geniuses prevent them" Albert Einstein





Fady Danial, Feras Abusunawber, Mariam Beshara, Mohamed Deabes and Nada Mahmoud

"Synthesis and characterization of multifunction gold nanoparticles for diagnosis and therapy"

"Synthesis of Resveratrol Gold NanoParticles (GNPS) as Anticancer Drug Delivery Carrier"

The two graduation projects participated in the "3rd Research Coordination Meeting of Coordinated Research Project" under the title: "Nanosized Delivery System on Radiopharmaceuticals" in International Atomic Energy Authority (IAEA), UN, Vienna, Austria.







Janset Safwat, Nehal Essam and Hend Essam

In-Vitro Study of Combined Therapy of Thymoquinone and 5-Florouracil against Colon Cancer Cell Lines (CACO-2) and (HCT-116)

Participated in "14th National Conference on Biochemistry and Molecular Biology, under the title: "Advances in Biomarkers, Genetic Diagnosis and Laboratory Medicine of Diseases". The poster won first place in the best poster competition.



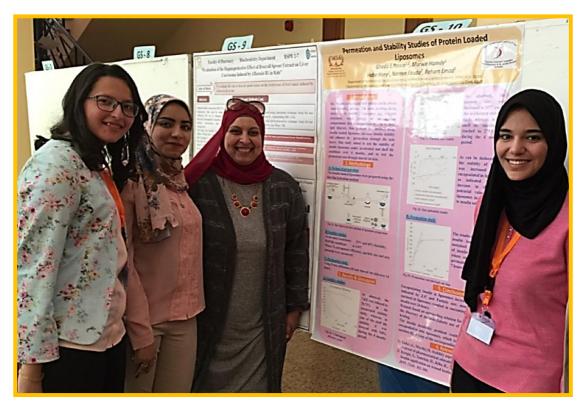




Heba Hany, Noureen Hesham and Reham Emad

Permeation and Stability Studies of Protein Loaded Liposomes

Participated in "14th National Conference on Biochemistry and Molecular Biology, under the title: "Advances in Biomarkers, Genetic Diagnosis and Laboratory Medicine of Diseases". The poster won second place in the best poster competition.







Hend Waheed, Menna Mohamed and Omar Ahmed

Green Analysis of Binary Mixture Used in Common Cold by Multivariate and Univariate Spectrophotometric Methods

Participated in "8th International Scientific Conference of Faculty of Pharmacy, Cairo University, under the title: "Pharmacy in Egypt: Ensuring Access to Health".







Greenwich Scholarships

Five MSA Pharmacy graduates were awarded MSc and PhD scholarships to the University of Greenwich this year.



Mohamed Abdelghany, 2016 PhD in Clinical Pharmacy scholarship

"During the journey of our life, we come across by some exceptional experiences that leave positive marks on our personality. Being one of MSA family members is considered the most unique mark in my life. So I would never be thankful enough to my University for building up my personal and educational skills starting from being one of MSA students ending up being a

successful postgraduate who has the ability to utilize my skills in a professional manner.

"Grateful for the exceptional learning journey I spent in MSA. Thank you MSA for the innumerable opportunities that you always provide us with.



Nada Kotrob, 2016 MSc in Pharmacognosy scholarship







"Faculty of pharmacy, MSA University, helped us to incorporate in real research practice. It gave us the opportunity to use advanced techniques and methodologies in our graduation projects which helped us reach our outstanding results in different pharmaceutical fields."

Hadeer khayal, 2016 PhD in Clinical Pharmacy scholarship

"MSA offered me with incredible experiences and I will remain forever grateful for the lessons learned and the influences set before me. I was really blessed by caring staff and inspiring environment at MSA.



Maha Alhadad, 2016 MSc in Biochemistry scholarship



"MSA is not just my university; it's a second home to me, where over the past five years I started to develop skills that have proven to support developing the person I am today."

Nourhan Alaa, 2016 PhD in Clinical Pharmacy scholarship





Top 9 Graduation Projects

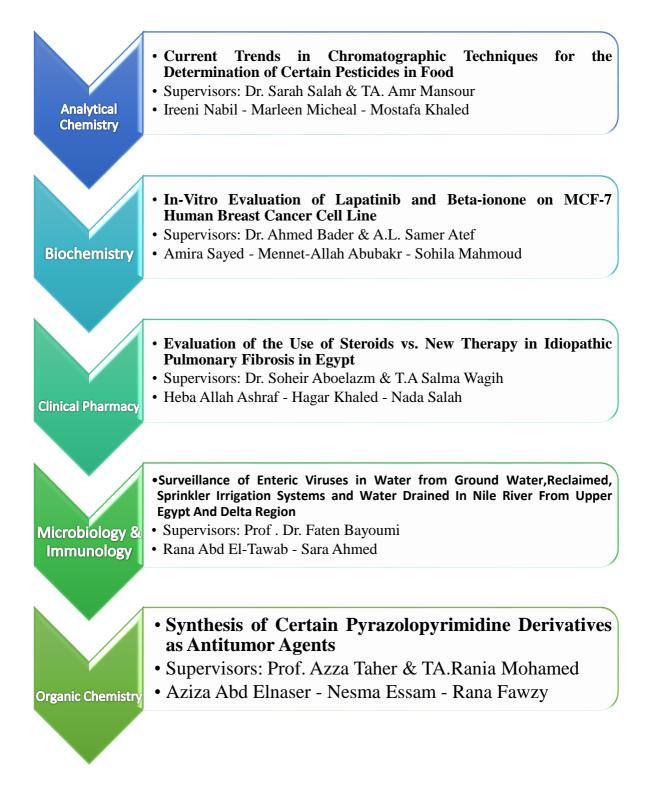
A spectacular achievement!

Your determination, hard work, and skills have paid off. Keep up your good work and continue to strive for perfection!

"It always seems impossible until it's done" NELSON MANDELA

















Current Trends in Chromatographic Techniques for the Determination of Certain Pesticides in Food (RSPAC2-13)







Marleen Micheal



Mostafa Khaled

Dr. Sarah Salah TA. Amr Mansour

Pesticides are substances which have shown beneficial effects of destruction of any pests or insects, but they also produce severe side effects that could harm human health including skin and eye irritation, certain tumors, pulmonary defects and liver, kidney damage in high doses. This project studied the analysis of different pesticides applied for different vegetables and fruits crops cultivated in Egypt. The selected pesticides were: Propamocarb hydrochloride, a fungicide used for the treatment of diseases caused by oomycetes to leaves, roots and soil; Thiamethoxam, a systemic insecticide in the class of neonicotinoids. Both pesticides were applied to cucumber crop and sampling was done over two weeks. In order to determine the trace analysis of both pesticides present in cucumber using advanced chromatographic techniques, aquick, easy, cheap, effective rugged (QuEChERS) was applied for preparation of the vegetable containing pesticide sample by using acetonitrile as solvent for extraction, then this extract was cleaned up using primary secondary amine (PSA). The extraction procedure was followed by the analysis using gas chromatography for thiamethoxam and HPLC-mass spectroscopy for promocarbHCl. By the end of this work, the proper duration and maximum residual limit (MRL) of the selected pesticides treatment were recommended for cucumber crops which agreed with FAO limits requirement.



Students

Project Title



In-Vitro Evaluation of Lapatinib and Beta-ionone on MCF-7 Human Breast Cancer Cell Line. (RSPB2-2)







Amira Sayed

ed Mennet-Allah Abubakr Sohila Mahmoud

Prof. Ahmed Bader AL. Samer Atef

Breast cancer occurs mainly due to mutation in PI3k/AKT and RAS/MEK/ERK pathways or mutation of BRCA1, BRCA2 and P53 genes. Tyrosin kinase inhibitors as lapatinib inhibit HER2 receptor which prevents the phosphorylation and activation of the signal transduction pathways to decrease cellular proliferation and induce apoptosis mechanism. Beta-ionone is a terpenoid antioxidant found in many plant oils which has antioxidant, antimutagenic, chemopreventive and antiproliferative activity. This study was done to investigate the effect of lapatinib and beta-ionone combination on MCF-7 human breast cancer cell line. MTT-based assay showed that lapatinib exhibited cytotoxic effect on MCF-7 cell line (IC₅₀=326.60 µM) after 72 hrs. Beta-ionone showed a very low cytotoxic effect on MCF-7 cell lines (IC₅₀=38.95 mM) after 72 hrs. The combination showed a decrease in the cytotoxic effect compared with lapatinib with an IC₅₀=429 μ m after 72 hrs. Detection of apoptosis by annexin V/PI showed an apoptotic index of 11.34% for lapatinib, 6.31% for betaionone and 17.33% for the combination on MCF-7 cell line. Cell cycle analysis showed pre G_1 apoptosis and cell cycle arrest at G_2/M phase for lapatinib, betaionone, and their combination. gRT-PCR results showed a more significant downregulation in HER2 gene expression using the combination rather than using lapatinib or beta-ionone alone. It can be concluded that the combination therapy showed a reduced cytotoxic effect, pre G1 apoptosis and cell cycle arrest at G2/M phase, and downregulation in HER2 gene expression. Accordingly, the combination of lapatinib and beta-ionone may be more effective than the single use of any of them.



Students

Project



Evaluation the Use of Immunosuppressant Vs Antifibrotic in Idiopathic Pulmonary Fibrosis in chest department El Kasr El Einy Hospital (RSPL2-7)



Heba Allah Ashraf



Hagar Khaled



Nada Salah

Dr. Soheir Abo El Azm TA. Salma Wagih

Background: Idiopathic pulmonary fibrosis (IPF) is a large and varied collection of pulmonary disorders due to an unidentified cause. Pirfenidone and nintedanib are recently approved treatments for IPF. Studies on these drugs showed promising results for reducing IPF progress. Though, limited studies have focused on monitoring symptoms and also recommendations are mostly concluded from evidence in other chronic diseases. Aim of the work: Evaluation of management regimen and clinical response of patients to the therapy and detecting all side effects and drug interactions caused by misuse of the new treatment strategy of IIPs and apply the role of clinical pharmacist in improving the patient outcome. Patients and methods: This study is prospective conducted for 9 months from the start of October 2016 to the end of June 2017 in chest department in El Kasr El Einy Hospital. Sixty patients of both sexes with age range (50-70) years with exclusion criteria Pregnant, Idiopathic Lung disease patients receiving drugs that may cause Idiopathic Lung Disease, and patients with chronic diseases. Diagnosed as IPF underwent detailed history taking, clinical examination, spirometery, HRCT and bronchscopy. Results About 50% of patients developed IPF above age of 50. About 80% patients were males. About 70% patients had significant tobacco smoke exposure. Dyspnea was present in (95 %) patients and the majority had grade 3 and 4 dyspnea. Ninety percent of patients had cough. Clubbing of fingers was present in 70 %. The FVC range was $52.5 \pm 15.2\%$. One third of patients (33.3%) had corpulmonal. These patients treated with perfindone (60 %) and corticosteroids (40 %). Outcome measurements were equal for both treated groups of patients. Conclusion In our locality IPF patients age of presentation and other demographic, clinical and physiological features were more or less similar to those recorded worldwide. Pirfenidone is a novel antifibrotic agent which preserves VC and improves PFS has equal outcome as other line of treatment with less side effects.



Students

Project Title



Surveillance of Enteric Viruses in Water from Ground Water,Reclaimed, Sprinkler Irrigation Systems and Water Drained In Nile River From Upper Egypt And Delta Region (RSPM2-13)



Rana Abd El-Tawab



Sara Ahmed

Prof. Dr. Faten Bayoumi

About 3.4 million people especially children die every year as a result of diseases related to water. Absence of treatment in most sources of used water led for producing human enteric viruses. There are more than 100 viral species that are the main cause of infection to human. Among the many viruses discharged are such pathogens as HAV, Polio virus, and Adeno virus. The significance of these viruses in human ranging between hepatitis, gastrointestinal, and poliomyelitis. Most of these agents transmitted via fecal oral rout or person to person contact. The aim of this article is to review and determine the sources of endemic viruses by using specific techniques. Polymerase chain reaction, real time, plaque viral inclusion and sample concentration using electronegative or positive membrane are some application for detection the enteric viruses that are considering as main source for contaminating water.







Synthesis of Certain Pyrazolopyrimidine Derivatives as Antitumor Agents (RSPOC2-1)



Aziza Abd Elnaser

Nesma Essam



Rana Fawzy

Prof. Azza Taher TA. Rania Mohamed

Understanding cancer classifications, causes and detailed study of its line of treatment has enabled the identification of potential drug targets; one of the most promising drugs that have an effective anticancer activity is pyrazolopyrimidine. The heterocyclic fused ring pyrazolopyrimidine has drawn a huge consideration owing to its expanded applications in the field of pharmaceutical chemistry. Its derivatives synthesize in heterocyclic compounds containing active substitutions that can develop antagonism against malignant cell metabolism and have many mutagenic activities against the tumor cells. This review focused on the antitumor activity of the pyrazolpyrimidine containing compounds as well as the definition, classification, and treatment of cancer. Moreover, it summarizes the recent advances in the synthesis and biological activities investigations of pyrazolopyrimidine derivatives. Based on the previous review, the aim of this study is to synthesize a series of novel pyrazolopyrimidine containing compounds expected to have certain antitumor activity. The preliminary methods of synthesis of the pyrazolopyrimidine derivatives were include using reflux water condenser, filtration procedures, re crystallization process and drying (ovens, air drying). Finally, all the synthesized compounds will be biologically tested in vitro using different cell lines at the national cancer institute as antitumor agents.





Supervisors

Abstract



Mariam Adly



A Comparative Study Between Different Essential Oils Used in the Treatment of Acne (RSPG2-15)

Sara El Sayed



Samah Anwar

Dr. Mahitab Helmy TA. Nariman Ali

The volatile oils obtained from the barks of Cinamonumaromaticum, the dried flowers of Lavenduladhofarensis and fresh leaves of Rosmarinusofficinalis collected from Egypt, in addition to a new herbal formula, were evaluated for their chemical composition and antimicrobial activity against the acne-causing bacteria aiming at finding an effective treatment for acne. The gaschromatography-mass spectrometry analyses revealed that linalool (32.55%) and lavendulyl acetate (11.84%) are the major constituents of L.dhofarensis volatile oil while 1,8-cineole (36.75%) and alpha pinene (20.52%) were found to be the major constituents of R. officinalis volatile oil and it was found that cinnamaldehyde represents about (89.53%) of the C.aromaticum volatile oil. Also, the GC/MS analysis revealed that the major constituents of the formula were cinnamaldehyde (34.59%) and 1,8-cineole (34.26%). The antimicrobial activity wasassayed using the Kirby-Bauer method while the MIC test was carried using microwell dilution assay method. The three volatile oils along with the formula displayed an effective antimicrobialactivity against Staphylococcus epidermidis. In addition, the volatile oils and the formula showed an effective antimicrobial activity against Propionibacterium acnes except the volatile oil of the rosemary. Also, by observation the formula showed the highest activity compared to each oil individually. This work has identified the effectiveness of candidates of volatile oil and their formulaagainst bacteria causing acne.



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Effect of Surlforaphane on D-Galactose Induced Renal Aging in Experimental Rats (RSPO2-15)



Mayada Mohamed



Mirna Mohamed



Nourhan Abdel Hamid

Associate Prof. Mona El Naa AL. Maha Shouman

Aging is one of the biological phenomena that attract scientific research as it is a major risk factor for most common chronic diseases that affects most vital organs. Aging is remarked by changes inside the cell as oxidative stress, decrease in the level of antioxidant substance, high level of lipid peroxidation, inflammation and deterioration of DNA and RNA of the cell. Aging of the kidney means loss of function which marked by reduction in glomerular filtration rate (GFR) and renal blood flow (RBF) and is associated with narrowing of the arteries that supply the kidney which reduces the ability of nephron to excrete wastes. The aim of the present study is to investigate the effect of sulforaphane (SF; 10, 20 and 40 mg/kg body weight; p.o.), a broccoli extract, on D-galactose-induced renal changes associated with aging. Aging was induced in rats by subcutaneous injection with D-galactose (300 mg/kg/day for 5 days a week) for six consecutive weeks. Thirty albino rats were allocated into five groups (6 rats each). Group I served as a negative control group, group II served as positive control which will receive the D-galactose for 6 weeks while groups III, IV and V received D-galactose for 6 weeks then were injected with SF (10, 20 and 40 mg/kg; p.o.), respectively for 2 weeks. Twenty-four hours after the last dose of the SF, blood samples were collected, animals were sacrificed; kidneys were isolated. Sera were used to measure renal functions parameter viz, urea and creatinine. Renal tissue homogenate was used to assess the renal oxidative stress biomarkers and inflammatory mediators. Kidney tissues were also is fixed in 10% formalin for further histopathological examination. Results of the present study revealed that D-galactose-induction of renal aging is accompanied by an increase in sera renal function parameters, renal oxidative stress biomarkers; malondialdehyde (MDA) and glutathione (GSH), as well as renal inflammatory mediators. Moreover, renal aging is associated with elevation of the expression of nuclear factor like-2 (Nrf2). Treatment of D-galactose-injected rats with SF (10, 20 and 40 mg/kg; p.o.), for two weeks showed a amelioration in the distorted serum renal parameters as urea and creatinine, renal oxidative stress biomarkers as MDA and GSH, renal inflammatory biomarkers as TNF-a and interleukin-1ß as well as Nrf2. Finally, our result proves that 23/2FN restores renal aging induced by Dgalactose as it activate the release of Nrf2 which enhances the expression of antioxidant genes thus, overcomes oxidative stress.



Students



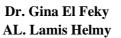
Evaluation of a Nose to Brain Targeting Nano-Formulation for an Anti-Migraine Drug



Abdelrahman Ehab



Andrew Alber



Hesham Taha

This study aims at enhancing the bioavailability of the anti-migraine drug; almotriptan; through designing a drug loaded lipid based nanoparticle formulation for its delivery through the nasal route directly to the brain. The nasal route excels itself over other routes, through its rapid onset of action, avoidance of hepatic first pass metabolism and enhanced patient compliance and above all direct targeting abilities to the brain. Migraine drugs work centrally and are mainly administered through the oral route which leads to decreased bioavailability in addition to the use of more frequent larger doses. Twelve different nanostructured lipid formulations were prepared using different lipids and surfactants. All formulations were assessed for their particle size, PDI, zeta potential and entrapment efficiency. Formula F7; composed of 1:1 Compritol: Labrafil as lipid phases, Labrasol and Tween 80 as surfactants showed the best combined physicochemical properties (PS 225.1 nm, PDI 0.273, ZP -22.9 V and entrapment efficiency of 61.81%) therefore, it was selected for the *in vitro* release profile determination in nasal conditions versus unformulated drug.







Synthesis of Resveratrol Gold NanoParticles (GNPS) as Anticancer Drug Delivery Carrier (RSPHC2-6)



Mariam Ashraf



Nada Mourad



Fady Nageh

Associate Prof. Tamer Mostafa TA. Nourhan Alaa

Nanotechnology one of the most interesting fields as it's a new revolutionary aspect in many sciences. The field of 'Nano medicine' is widely distributed nowadays to treat and prevent the traumatic diseases. Also, the metallic Nano medicine has been made a great shift in the treatment of cancer by the use of the resveratrol gold nano particles (R-GNPs) using the green synthesis that allow the formation of non-toxic and biocompatible drug delivery carrier. R-GNPs showed a good stability in saline and other buffers mimicking the physiological PH. Loading the R-GNPs with doxorubicin as anti-cancer agent will form the under investigated drug. The DLS of the R-GNPs loaded with doxorubicin was ~ 58.9 nm which is the optimum size to penetrate cancer cell. The MTT assay using both MCF-7 and HepG-2 cell lines under the experimental condition determined the biocompatibility of R-GNPs and R-GNPs loaded with doxorubicin. Inhibitory activity of R-GNPs and doxorubicin loaded R-GNPs against hepatocellular carcinoma cell lines (HepG-2) was IC50=66.7µm and IC50=24.4µm respectively. Inhibitory activity of R-GNPs and doxorubicin Loaded R-GNPs against breast carcinoma cell lines (MCF-7) was IC50=79.8µm and IC50=40.78µm respectively. So, the cytotoxic activity of doxorubicin loaded R-GNPs against hepatocellular carcinoma cell line (HepG-2) and breast carcinoma cell line (MCF-7) showed the suitability of R-GNPs as a carrier for anti-cancer drug.





Analytical Chemistry Department



Ducient Code	Durit of Title 0. Comparison		Ctradente	
Project Code	Project Title & Supervisors		Students	
RSPAC2-1	Development of a method for simultaneous estimation of metformin HCl and suxagliptin in a pharmaceutical dosage form			
	Dr. Maha Kamal	Khloud	Mohamed	Rehab
	TA. Nehal Fawzy	Mohamed	Abd Elnaser	Mohamed
RSPAC2-2	Determination of different chemical pollutants in industrial wastewater and in Nile River Prof. Safaa Riad	E		
	AL, Heba Tarek			
		Asmaa	Eman	Gehad
		Magdy	Ibrahim	Mohamed
RSPAC2-3	Simultaneous determination of sitagliptin and metformin in pure form and in their pharmaceutical dosage form Dr. Maha Kamal		(B)	0
	TA. Hadeer Khayal	Miriam	Nourhan	Yasmin
		Ashraf	Ramadan	Nagi
RSPAC2-4	Membrane electrodes for determination of some topical pharmaceutical .preparations Dr. Omnia Ali TA. Mohammed Abdel Ghany		6	
		Abanoub Asaad	Basma Hossam	Marina Mamdouh





RSPAC2-5	Simultaneous determination of drugs in their binary mixture Prof. Manal Fouad TA. Souha Hosam			•
		Hayat Eldesoky	Yara Essam	Yasmien Ibraheem
RSPAC2-6	Determination of pesticides residue in some fruits or vegetables cultivated in Egypt. Dr. Omnia Ali TA. Mohamed Abdel Ghany		Ø	P.S.
		Abd-Allah Hesham	Diana Samir	Youssef Samir
RSPAC2-7	Validated chromatographic techniques for determination of multiple components in common cold preparations Dr. Omnia Ali	(B)		
	TA. Nehal Fawzy	Menna Tallah Rady	Naira Salah	Rana Waleed
RSPAC2-8	A novel HPLC-MS/MS method for quantitative determination of paracetamol, pseudoephedrine HCl and brompheniramine maleate in plasma	1	00	
	Ass. Prof. Dalia Mamdouh			
	AL. Souha Hosam	Ahmed Samy	Nada Hashem	Omar Hassan
RSPAC2-9	Spectrophotometric determination of certain preparations used for treatment of respiratory tract Dr. Sarah Salah TA. Dina Atef		J	B
		Ahmed M.Nabil	Ahmed M. Zaki	Mina Makin
RSPAC2-10	Spectrophotometric determination of certain common cold preparations Dr. Omnia Ali TA. Amr Mansour	S)	ę	(Internet in the second
		Hend Waheed	Menna Mohamed	Omar Ahmed





RSPAC2-11	Ion selective membrane electrode for determination of some anti-bacterial drugs Dr. Christine Maged TA. Nourhan Ossama	Aya Ahmed	Lekaa Mohamed	Sara Magdy
RSPAC2-12	Electrochemical determination of certain nasal pharmaceutical preparations Dr. Sarah Salah AL. Heba Tarek	Asmaa	Basant	Merna
		Ahmed	Ashraf	Khaled
RSPAC2-13	Current trends in chromatographic techniques for the determination of certain pesticides in food Dr. Sarah Salah TA. Amr Mansour	S.		Co Co
		Ireeni Nabil	Marleen Micheal	Mostafa Khaled
RSPAC2-14	Analysis of certain cough preparations using chromatographic technique Dr. Sarah Salah	P	25	1
	TA. Amr Mansour	Merna Wahed	Mirette Medhat	Mora Lewiz
RSPAC2-15	Analytical study of binary mixture used for gastrointestinal disorders Dr. Sarah Salah	and the second s	S	3
	TA. Amr Mansour	Ahmed Adel	Ahmed Atef	Ahmed Mohamed
RSPAC2-16	Spectrophotometric and chromatographic methods for determination of gastrointestinal drugs combination Dr. Christine Maged TA. Hadeer Khayal	0	(10)	Contraction of the second seco
		Hossam Mahmoud	Karim Mohamed	Mohamed Amin





Biochemistry Department



Project Code	Project Title & Supervisors		Students	
RSPB2-1	Cytotoxic, genotoxic biochemical effects of gemcitabine, carboplatin and epigallocatechin gallate on prostate cancer PC3 cells	9		
	Prof. Ahmed Bader TA. Ahmed Ossama	Radwa Sameh	Yasser Towfik	Yousra Mustafa
RSPB2-2	In-Vitro evaluation of lapatinib and beta-ionone on MCF-7 human breast cancer cell line. Prof. Ahmed Bader AL. Samer Atef		and the second	
		Amira Sayed	MennetAllah Abubakr	Sohila Mahmoud
RSPB2-3	Oxidative stress and other biochemical markers in hypertension of male smokers Prof. Ahmed Bader	Y	(1)	0
	TA. Mariam Sabry	Andrew Tharwat	Mahmoud Abd ElSalam	Mohamed Tharwat





RSPB2-4	Correlating H ₂ S with inflammation in a model of brain ischemia Dr. Ahmed Maher Dr. Amr Abdel Hamid	No.	Y	
	Dr. Amr Abdel Hamid	Alaa Atif	Alaa El Gamil	Mohamed Tarek
RSPB2-5	The prevalence of polymorphism of h ₂ s secreting enzymess among acute myocardial infarction patients	-	e e	
	Dr. Ahmed Maher	-		-
	TA. Amira Khalil	Mohamed Fouad	Mohamed Wagdy	Shadi Abdel Fady
RSPB2-6	Measurement of biochemical markers linked to myocardial infarction susceptibility Dr. Ahmed Maher			
	TA. Amira Khalil	Ali Mou	isa Mal	hmoud Abou Alwafa
RSPB2-7	Investigation of the relationship between hydrogen sulphide and diabetes mellitus Dr. Mohamed Farouk	Ű	No.	
	AL. Zainab Abdel Hamid	Keroles	Mahmoud	Shenoda
		Nagy	Hassan	Michael
RSPB2-8	Protective effect of hydrogen sulphide in gentamycin-induced nephrotoxicity in rats Dr. Mohamed Farouk		S	and the second s
	TA. Radwa Saeed	Alaa Ahmed	Nassra Mohamed	Ramy Amr
RSPB2-9	Investigating the relationship between hydrogen sulphide and acute myocardial infarction Dr. Mohamed Farouk Dr. Amr Abdel Hamid		S	69)
	Dr. Ann Abdel Hannu	Areej Mohmed	Hisham Abdel Ghany	Hussein Gamal





RSPB2-10	Genetic polymorphism in women infertility		10000	
	induced by type 2 diabetes mellitus	35	ae	-
		EN	12	e
	Dr. Mohamed Hafez			100
	TA. Toqa Ayman		16.1 1	0 1
		Enas	Mahmoud	Samiha
DODDA 11		Ibrahim	Mohamed	Ashraf
RSPB2-11	ABCB1/RAAS polymorphism in Egyptian diabetic	Ja ml		and
	nephropathy patients	1 2 1	6	1
	Dr. Mohamed Hafez		Test.	17
	TA. Mariam Sabry			
	Tr. Wartan Subry	Ahmed	Ahmed	Hossam
		Adel	Yasser	Badowy
RSPB2-12	Apoptosis induced by hepatitis C virus in Egypt	and the second	6-1	
		100	(a) (b)	1 23
	Dr. Mohamed Hafez	- Chi		
	TA. Amira Khalil			1 AM
		Aly	Karim	Mohamed
		Mohamed	Hamdy	Khaled
RSPB2-13	The prophylactic effect of Glycyrrhiza glabra		~	
	extract on liver fibrosis induced by carbon	-		
	tetrachloride in-vivo and in-vitro	NEL		
	Dr. Nora Abo Rehab	21	-	-
	TA. Radwa Saeed	Essraa	Nada	Nouran
		Mohamed	Abbas	Emam
RSPB2-14	The prophylactic effect of Cupressus sempervirens	6	(10)	
	extract on liver cancer induced by aflatoxin B1 in	الع ا	0	(SE)
	rats	E	NS/	
	Dr. Nora Abo Rehab	Eslam	Margo	Seif Gamal
	TA. Mariam Sabry	Mahmoud	Rafik	
RSPB2-15	Evaluation of the biochemical effect of Nigella		-	
	Sativa extract on liver cancer induced by aflatoxin	(20)	30	(2.0)
	in rats	North	-	E
			-	
	Dr. Nora Abo Rehab	F	17' 1	
	Dr. Amr Abdel Hamid	Emran	Kirolos	Mohamed
		Omar	Agabny	Hamed





RSPB2-16	Genetic polymorphism and risk of diabetes mellitus Dr. Sherine Mahmoud TA. Ahmed Osama	E)	Co.	E.
		Abdelrahman Muhamed	Farouk Ahmed	Khaled Mohsen
RSPB2-17	Association of genetic polymorphism with susceptbilty of type 2 diabetes mellitus Dr. Sherine Mahmoud TA. Ahmed Osama		3	00
		Eman Essam	Mai Nagi	Mohamed Mostafa
RSPB2-18	Association of gene variation with diabetes mellitus and its complications Dr. Sherine Mahmoud AL. Zeinab Mohamed	8	(imp)	
		Basem Wageh	Fatma AlLaithy	Heba Hassan





Clinical Pharmacy Department



Project Code	Project Title & Supervisors		Students	
RSPL2-1	Studying the effects of sofosbuvir(Sovaldi) on the heart via estimation of BNP Dr. Nada Farrag	12	0.00	
	TA. Salma Wagih	Amira	Mariam	Mentallah
		kasban	Hussien	Ali
RSPL2-2	The role of clinical pharmacist in the monitoring of anticoagulant therapy Prof. Soheir Abol Azm	۲	E	C
	TA. Fatma Ahmed	Asma hassan	Mentallah Ahmed	Heba Abu Bak
RSPL2-3	Role of clinical pharmacist in gestational diabetes management Dr. Abdel Aziz Mohsen	C.	6.5	(C)
	TA. Nada Ezz	Alyaa Mahmoud	Rehab Amer	Dina Reda





RSPL2-4	Studying the effect of long term use of proton pump inhibitors (PPIs) on the quality of life and kidney function of patients with peptic ulcer and gastroesphgyal reflux (GERD) Dr. Abdel Hamid El Hawary TA. Farah Mokhtar	Andro Essam	Rania Awa	Magda Adel
RSPL2-5	Assesment of sudden cardiac death risk factors prevelance in Egypt Dr. Abdel Hamid El Hawary TA. Farah Mokhtar	(D)		
		Hadeer Mossa	Shaimaa Abdallah	Rania Mohamed
RSPL2-6	Effect of Sofosbuvir(Sovaldi) on kidney Dr. Nada Farag TA. Fatma Ahmed			
		Asmaa Ramadan	Shereen Fawzy	Mirna Girgis
RSPL2-7	Evaluation the use of steroids vs. new therapy in idiopathic pulmonary fibrosis in Egypt Dr. Soheir Abo El Azm	6	(P)	
	TA. Salma Wagih	Heba Allal Ashraf	Hagar Khaled	Nada Salah





Microbiology Department



Project Code	Project Title & Supervisors		Students	
RSPM2-1	Biofilm Related Genes: Analysis of Multi-Antibiotic Resistant Acinetobacter Baumannii isolates from Egypt. Dr. Ahmed Khairulla AL. Karim Talaat	Carlo Carlo	(e : 1)	Q
		Abanoub Nabil	Hamdy El Sayed	Heba Allah Mohamed
RSPM2-2	Evaluation of the antivirulence effect of selected indole derivatives against pathogenic bacterial isolates Dr. Reham Wasfi AL. Mai Abdel Wahed	S	()	13
		Abdel Rahman Mohamed	Kadidja Mohamed	Sherif Ali
RSPM2-3	Isolation and characterization of mercury-resistant bacteria from dental settings as candidates for future bioremediation applications Dr. Ahmed Khairulla TA. Toqa Mostafa		(Perfection)	٢
	-	Abdelrahman Magdy	Esraa Hassan	Reem Badr





RSPM2-4	PCR-based detection of some virulence traits encoding genes in the "accidental" pathogen – Staphylococcus epidermidis	Con the second	Ø	
	Dr. Mahmoud Tawfick AL. Nada Samir	Ahmed Marzouk	Eriny Kamal	Nancy Ali
RSPM2-5	Investigating the incidence of bacterial contamination in cosmetic tools	3	0	63
	Dr. Ghada Refaat TA. Hadeel Darwish	No.	W	S.
		Arwa Ashraf	Aslam Ashraf	Reem Ahmed
RSPM2-6	Surveillance for microbiological contamination of bathroom settings in MSA University. Dr. Soha Hussein AL. Karim Talaat			Real Property in the second se
		Asmaa Atef	Shorouk Yousef	Mohamed Waleed
RSPM2-7	Detection of hypermucoviscosity associates genes in diverse K. pneumonia isolates from cancer patients. Dr. Mahmoud Tawfick AL. Dina Osama	E)		
	AL. Dila Osalia	Dina Refaat	Malaka Sayed	Mayar Medhat
RSPM2-8	A study on the lipid degrading ability of bacteria in our environment Dr. Ghada Refaat TA. Yousra Abdel Salam			
		Hala Gamal	Hedaya Ayman	Saher Abd-El- Miged
RSPM2-9	Antibacterial activity of selected commercially available mouth-care products and certain herbal extracts against Streptococcus mutans Dr. Ahmed Khairulla TA. Toqa Mostafa			60
	-	Amany Mahmoud	Ingi Fauzi	Mickel Awad





RSPM2-10	Surveillance for MRSA among university athlete students. Dr. Soha Hussein TA. Zeinab Kamel	Q	Y	
		Nada	Ramy	Rana
		Ahmed	Helmy	Mohamed
RSPM2-11	Analysis of water from groundwater, reclaimed, sprinkler irrigation systems and water drained in Nile River from in Upper Egypt and Delta region	-	a st	100
	Prof. Faten Bayoumi AL. Lamia Ismail	C		
		Ayman	Nora	Shimaa
		Mohamed	Essam	Elmorsy
RSPM2-12	Microbiological quality of drinking water from different household filter systems in Egypt Dr. Mahmoud Tawfick TA. Zeinab Kamel			-
		Norhan	Omnia	Yasser
		Ibrahim	Ahmed	Mohamed
RSPM2- 13	Surveillance of enteric viruses in water from ground water,reclaimed, sprinkler irrigation systems and water drained in Nile River from Upper Egypt and Delta region			
	Prof. Dr. Faten Bayoumi	Rana Abd	El-Tawab	Sara Ahmed
RSPM2- 14	Microbiological quality of tap water in 10 different geographic regions in Egypt.	- Contraction	A	
	Prof. Faten Bayoumi TA. Nehal Assem	KX.		\bigcirc
		Omar	Rana	Shorouk
		Tarek	Khaled	Mohamed





Organic Chemistry Department



Project Code	Project Title & Supervisors		Students	
RSPOC2-1	Synthesis of certain Pyrazolopyrimidine derivatives as antitumor agents			
	Prof. Azza Taher TA. Rania Mohamed	Aziza Abd Elnaser	Nesma Essam	Rana Fawzy
RSPOC2-2	Synthesis and anticancer evaluation of some pyrazole derivatives Dr. Mahmoud Nabil	Contraction of the second		2
	TA. Mareena NAshaat	Ahmed Mohamed	Esraa Adel	Zahraa Osama
RSPOC2-3	Synthesis and biological activity of some benzothiazole derivatives	(R.1)	110	est.
	Prof. Azza Taher AL. Enas Galal	Abdullah Mosaad	Mohammed Ali	Omar Adel





RSPOC2-4	Phenylthiazole derivatives with potential biomedical applications			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	Dr. Ahmed Hajaj	A P	T	
	TA. Mostafa El Awamy	Ahmed Gamal	Ahmed Tarek	Peter Nazeeh
RSPOC2-5	Chalchones as an active intermediate for the preparation of some bioactive heterocyclic rings	(Contraction)		
	Dr. Samar Radwan			
	T.A Aliaa Hamdy	Hazem Mohammed	Michael Gerges	Mohamed Assem
RSPOC2-6	Synthesis of pyrimidine using a conventional and green chemistry methods Associate Prof. Nadia Abdou			(A)
	AL. Rana El Masry	Fatma Kassem	Omnia Mostafa	Rana Alaa
RSPOC2-7	Preparation of pyridazine derivatives as antitumor agents	R	6.6	S
	Dr. Mahmoud Nabil	1 Carlos		
	TA. Hamsa Yehia	Ahmed Hany	Ahmed Tarek	Mohamed Ahmed
RSPOC2-8	Synthesis and antimicrobial activity of sulphonamides	(C)		(C-9)
	Dr. Mahmoud Nabil		1	
	AL. Heba Teba	Reem Omar	Shaimaa Abd-el- Hakim	Shrouk Saleh





Pharmaceutical Chemistry Department

	NU CH-			
Project Code	Project Title & Supervisors	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Students	
RSPHC2-1	QSAR and Molecular Docking Studies of Novel Carbonic Anhydrase Inhibitors as Potential Antitumor agents Dr. Ahmed Kerdawy AL. Emad Seif			
	AL. Elliad Self	Mariem Hesham	MenaAllah Medhat	Salma Mohamed
RSPHC2-2	Synthesis and Anti-Microbial Evaluation of Some Substituted Thiazole Derivatives Assoc. Prof. Yassin Nissan TA. Zeinab El Fakharany			C.
		Ibrahim Abd El Hady	Islam Sayed	Marawan Ramadan
RSPHC2-3	Synthesis and Antitumor Evaluation of Some Substituted Pyrazolotriazine Derivatives Dr. Rana Refaey TA. Ahmed Sedky	and the second	3	
		Diana Mosa	Mohamed Fedaei	Nourhan Yousry
RSPHC2-4	Synthesis and Antitumor Evaluation of Some Pyrazolopyrimidine Derivatives Assoc. Prof. Yassin Nissan AL. Dina Adel 39			T
		Ahmed Adel	Ahmed Mohamed	Beshoyon Nabil



RSPHC2-5	Synthesis and Characterization of Multifunction Gold Nanoparticles for Diagnosis and Therapy Associate prof. Tamer Mostafa TA. Sherine Gamal	E		
		Feras Abd El	Hafiz Mol	named Fouad
RSPHC2-6	Synthesis of Resveratrol Gold NanoParticles (GNPS) as Anticancer Drug Delivery Carrier Associate Prof. Tamer Mostafa TA. Nourhan Alaa		Carles Del	S
		Mariam Ashraf	Nada Mourad	Fady Nageh
RSPHC2-7	Structure-Based Design, Synthesis and Biological Evaluation of New Furosemide Analogs Carry Carbonic Anhydrase-2 Inhibition Activity Dr. Mohamed El Araby AL. Mai Saeed			
		Mohamed Hesham	Mohamed Hossam	Mohamme d Abd Elbaset
RSPHC2-8	Molecular Dynamics Simulations of Approved and Novel Orexin 2 Receptor Antagonists Dr. Mohamed El Araby AL. Ramy Ramsis		Care of the second	
		Ahmed Abd El- Gaber	Mostafa Mahmoud	Zahra Badr
RSPHC2-9	Computation of Selectivities of a Series of NSAIDs to COX-1 and COX-2 Receptors Using Molecular Dynamics Simulations Dr. Mohamed El Araby TA. Nourhan Alaa			20
		Ibrahim El- Syed	Marco Hany	Mohamed Abdel Aal





Pharmaceutics Department



Project Code	Project Title & Supervisors		Students	
RSPT2-1	Formulation and Evaluation of Bambuterol Hydrochloride Fast Dissolving Oral Films Dr. Amal Saber AL. Omar El Kady			
		Adel Mohamed	Omar Nabil	Sarah Farag
RSPT2-2	A Novel Vesicular Lipid Carrier Systems to Enhance Acyclovir Delivery through the Skin. Associate Prof. Amal Youssef AL. Eman Ashmouny	Normalie		
		Ahmed	Khaled	Mohamed
RSPT2-3	Permeation and Stability Studies of Protein Loaded Liposomes Dr. Ghada Ehab AL. Marwa Hamdi	Mohamed	Mohamed	Ahmed
		Heba Hany	Noreen Hisham	Reham Emad





RSPT2-4	Liquisolid Technology for Enhancing the Dissolution Profile of a Poorly Soluble Drug Dr. Amal Saber AL. Nihal El Mahdy			
		Fatma Ali	Hossam Hassan	Medhat Ibrahim
RSPT2-5	Evaluation of a Nose to Brain Targeting Nano-Formulation for an Anti-Migraine Drug Dr. Gina El Feky AL. Lamis Helmy			
		Abdelrahman Ehab	Andrew Alber	Hesham Taha
RSPT2-6	Formulation and evaluation of Novel Brain Targeting Drug Loaded in Lipid Based Nanoparticles Through Intranasal Route for Alzheimer's Associate Prof. Amal Youssef TA. Amira Essam			
		Aya Sayed	Fade Hesham	Mahmoud Eldssouky
RSPT2-7	A 32 Full Factorial Design for Development and Characterization of Antifungal-Loaded Nanosponge for Topical Delivery Dr. Reham Amer TA. Dalia El Khiat			())
		Dina Mohamed	Madonna Sedhom	Nermeen Yousry
RSPT2-8	Formulation and Evaluation of Wafers Dosage Forms Dr. Dalia Abdel Aty AL. Heba Hamdy			
		Aya Mahmoud	Elshymaa Tarek	Shaimaa Mohame





RSPT2-9	Formulation and Evaluation of a Novel Nano- Vesicular Carrier System for Ocular Delivery Dr. Shereen Hamdy TA. Pakinam Zikry		ie de la	
		Ahmed Mohamed	Aya Hamdy	Shaimaa Talat
RSPT2-10	Development and Evaluation of Proniosomal Gel of an Antifungal Drug Dr. Amal Saber TA. Nancy Nabil			
		Marina Raafat	Shimaa Alaa	Shymaa Emad
RSPT2-11	Formulation and Evaluation of nanostructured lipid carrier loading with anti-inflammatory drug Dr. Dalia Farrag TA. Radwa El Masry			
		Ahmed Abdallah	Basant Mohamed	Mariam Samir
RSPT2-12	Formulation And Evaluation of Nanovesicular Systems for Transdermal Drug Delivery Dr. Ibrahim El Sayed AL. Islam Manaa			
		Ahmed Hany	Mina Atef	Sherif Maher
RSPT2- 13	Formulation of Microcomposite Pellets for Sustained Release of an Anti Inflammatory Drug Dr. Ibrahim El Sayed AL. Dina Saeed			
		Elaref Ibrahim	Omer Abd El-Hafiz	Yahya Refat



Pharmacognosy Department





Project Code	Project Title & Supervisors		Students	
RSPG2-1	Phytochemical and Biological Studies of Duranta species cultivated in Egypt Dr. Reham Regaie TA. Salma Khaled			
		Maysoon Mostafa	Salma Ayman	Hend Tarek
RSPG2-2	Phytochemical and Biological Studies of Ailunthus altissima Swingle cultivated in Egypt Dr. Reham Regaie TA. Salma Khaled			10
		Lamice Mohamed	Shimaa Adel	Alaa Osama
RSPG2-3	Phytochemical and Biological Screening of Certain Ammannia L. Species Family Lythraceae Dr. Marwa Batanony TA. Esraa Adel			000
		Ahmed Hosam	Amr Ahmed	Arwa Ahmed





RSPG2-4	Phytochemical and Biological Investigations of Different Ipomea Spp. Family Convulvulaceae Dr. Marwa Batanony TA. Esraa Adel		(I)	
		Hadil Atif	Nancy Karam	Noha Ahmed
RSPG2-5	Phytochemical and Biological Investigation of Different Species of Cynanchum Family Apocynacea Dr. Riham Omar			
	TA. Mai Gohar	Ezzat	Mahmoud	Omar Ahmed
		Hatim	Yasser	Olliai Allineu
RSPG2-6	Phytochemical and Biological Investigation of Eclipta prostrata Family: Asteraceae Cultivated in Egypt Dr. Iman Abdel Khalek			
	TA. Mai Gohar	NT1	NT 1	
		Nada Mohammed	Nada Mahmoud	Nada Ayman
RSPG2-7	Phytochemical and Biological Investigation of Certain Trianthema Species Growing in Egypt Dr. Riham Omar TA. Nada Aly	Wonamiled		
		Kholoud	Maha	Mayada
		Mohamed	Mahmoud	Mohamed
RSPG2-8	Phytochemical and Biological Investigation of Certain Callistemon Species Cultivated in Egypt Dr. Riham Omar TA. Nada Aly		R	
		Lina	Alyaa	Mayar
Dances		Moawad	Ibrahim	Muhammed
RSPG2-9	Comparative Phytochemical and Pharmacological study between Rosmarinus officinalis and Eriocephalus africanus cultivated in Egypt. Dr. Tarek Eissa	9	S	
	AL. Ibrahim Ezz	Paula Girgis	Monica Raafat	Mohammed Essam





RSPG2-10	A study of antioxidant and cytotoxic activity of Lycium shawii from Matrouh, Egypt. Dr. Tarek Eissa AL. Ibrahim Ezz	8	(F)	
		Baraa Emad	Nagdat Majd	Muhammed AbdEl Mon'em
RSPG2-11	Phytochemical and Pharmacological Analysis of Lophophora williamsii Family Cactaceae. Dr. Tarek Eissa AL. Mohamed Abd El Aal	(10) (10)		
		Nourhan Samy	Mona Ibrahem	Hadir Khaled
RSPG2-12	Characterization of the Antioxidant, Antimicrobial and Cytotoxic Properties of Ruta graveolens Dr. Tarek Eissa AL. Mohamed Abd El Aal			
		Saher Safwat	Mahmoud Mostafa	Marwan Mostafa
RSPG2-13	Comparative Study of Anticancer, Antimicrobial and Antifungal of Origanum majorana Collected from Egypt Dr. Tarek Eissa AL. Mohamed Abd El Aal			
		Philip Fanous	Andrew Ibrahim	Marina Magdy
RSPG2-14	Evaluation of the Effects of the Addition of Different Fixed Oils to the Normal Diet of Healthy Rats on Their Lipid Profiles Dr. Mahitab Helmy TA. Nariman Ali	C	P	
		Mai Medhat	Lamiaa Ahmed	Omar Elsayed





RSPG2-15	A Comparative Study Between Different Essentail Oils Used in the Treatment of Acne Dr. Mahitab Helmy TA. Nariman Ali			R
		Mariam Adly	Sara El Sayed	Samah Anwar
RSPG2-16	The Role of Polyphenolic Compounds in Human Health Dr. Sabah Hussein AL. Heba El- Kammar	B	Sayed	
		Evet Nabil	Hayam Ali	Bassant Mohammed
RSPG2-13	Antidiabetic Natural Drugs Dr. Sabah Hussein AL. Heba El- Kammar		3	
		Shahd Hassan	Noha Fikry	Shady Medhat
RSPG2-18	Immunodulator Natural drugs Dr. Sabah Hussein			
		Hasnaa Nabel	Asmaa Hassan	Khaled Ahmed
RSPG2-19	Phytoestrogen Containing Herbs Dr. Sabah Hussein		6	23
		Shimaa Gamal	Omnia Rabea	Emad Hakeem





Pharmacology Department



Project Code	Project Title & Supervisors		Students	
RSPHO2-1	The Role of Nicorandil in Alleviation of Chronic Kidney Injury by Amphotericin B in Rats. Dr. Dina Farouk AL. Reem El Sayed		Contraction of the second seco	
		Fatima Aliyu	Halima Sadiya	Mohamed Ahmed
RSPO2-2	The Effect of Allicin on Thioacetamide-Induced Hepatic Encephalopathy in Rats Dr. Dalia Osama AL. Ahmed Samir			(B)
		Nora Abd Altef	Radwa Mohamed	Shimaa Abdel Rahman
RSPO2-3	Possible Effects of Ginseng in Aluminium Chloride Induced Alzheimer Disease Dr. Ahmed Fayez AL. Raghda Hamed		10	
		Ahmed Mohamed	Amir Shebl	Mohamed Mostafa





RSPO2-4	Investigation of Cardioprotective Effects of Some Natural Compounds on Doxorubicin-Induced Cardiotoxicity in Rats Dr. Dina Farouk AL. Reem El Sayed			
		Amal Mohammed	Jenny Atef	Walaa Nabil
RSPO2-5	Possible Renoprotective Effects of Chitosan and Aminophylline Against Cisplatin-Induced Nephrotoxicity in rats Dr. Dina Farouk TA. Maha El Shahat			
		Haidy Diaa	Howieda	Sandy
RSPO2-6	Potential Protective Activity of Ginkgo biloba Extract Against Methotrexate-Induced Gastrointestinal Toxicity Dr. Dina Farouk	(B)	Fawzy	Nader
	AL. Lobna Taher	Aya Khaled	Dina Hosni	Nouran Mohamed
RSPO2-7	Investigation of the Toxicological Effects of Some Anticancer Drugs on Rat Model of Liver Cirrhosis Dr. Dina Farouk AL. Lobna Taher			C.
		Mahmoud	Peter	Tarek
RSPO2-8	Protective Effect of Curcumin Against Paracetamol-Induced Hepatotoxicity Dr. Rehab Hegazy TA. Maha Al Shahat	Ahmed	Sameh	Ahmed
		Alaa Sharawy	Bissan Mohamed	Yasir Mahmud





RSPO2-9	The Potential Protective Effects of Pumpkin Seed Oil Against Methotrexate-Induced Acute Hepatotoxicity in Rats Dr. Rehab Hegazy TA. Mohamed Sofian		¢	
		Mostafa Alsaid	Naema Khalaf	Yasmine
RSPO2-10	The Effect of Resveratrol in the Anti-Inflammatory Activity of Diclofenac in Rat Model of Carrageenan-Induced Inflammation Dr. Rehab Hegazy TA. Heba Hosam	Aisaid	Knalar	Kamel
		Karim Abdel Aleem	Mostafa Ahmed	Taha Adel
RSPO2-11	Influnce of Low Dose Capsicum on Indomethacin Induced Gastric Ulcer in Rats Dr. Omneya Galal TA. Ola Essam			(1) (1)
		Aisha Ibrahim	Doaa Hesham	Karima Ismail
RSPO2-12	Effect of Alpha Lipoic Acid on Chemically- Induced Hepatocellular Carcinoma Associate Prof. Mona El Naa AL. Maha Shouman	8		
		Ahmed Mosad	Mai Mohamed	Mohamed Mostfa
RSPO2-13	Effect of Zafirlukast and Piracetam on Dementia Induced by L-Methionine Dr. Ahmed Fayez AL. Omnia Farouk			10 10
		Hanaa Mohamed	Mahmoud Morad	Rania Romhi





RSPO2-14	Effect of Epigallocatechin Gallate on D-Galactose- Induced Hepatic Aging in Albino Rats Dr. Dalia Osama		6	
		Esraa	Mai	Nourhan
		Gamal	Ramadan	Mahmoud
RSPO2-15	Effect of Surlforaphane on D-Galactose Induced Renal Aging in Experimental Rats Associate Prof. Mona El Naa AL. Maha Shouman	(C C C C C C C C C C C C C C C C C C C		
		Mayada	Mirna	Nourhan
		Mohamed	Mohamed	Abdel Hamid
RSPO2-16	Influence of High Dose Capsicum on Indomethacin Induced Peptic Ulcer in Rats Dr. Ahmed Fayez AL. Omnia Farouk		Contraction of the second seco	
		Mareham	Mariam	Marina
		Vector	Yousry	Rafik
RSPO2-17	The Effect of Erythropoietin on Doxorubicin - induced hepatotoxcisty in rats Dr. Heba Samy AL. Maha Taher		1 Color	
		Amr Saeed	Miada Saleh	Mosaad Abd El Aleem







Project Code	Project Title & Supervisors		Students	
RSPAC2-1	Tracing of Pharmaceutical Pollutants in Waste Water Prof. Safaa Riaad AL. Heba Tarek			
		Al-Zahraa Saad	Aya Amr	Eslam Mohamed
RSPAC2-2	Contribution to the Analysis of Lidocaine and Ceftriaxone Sodium as Co-Adminstered Drugs Associate Prof. Dalia Mamdouh TA. Souha Hosam	Yohanna	Cathreen	Sama
		Nehad	Youssef	r Helal
RSPAC2-3	Simultaneous Determination of Dantrolene Sodium and Paracetamol in Dantrelax Compound Capsules Associate Prof. Dalia Mamdouh TA. Nourhan Osama			
		Mariam Shafik	Metha Tharwat	Fadeel Gomah





RSPAC2-4	Simultaneous Determination of Clidinium Bromide and Chlordiazepoxide in their Binary Mixture Prof. Manal Fouad TA. Dina Atef			
		Asmaa Nabil	Marina Maged	Martina Gerges
RSPM2-2	Detection of Antibiotic Resistance Markeres From Different Sources of Tap and Bottled Water Dr. Heba Magdy	Dima	Wessam	Ahmed Ehab
		Mohammed	Sameh	
RSPHO2-2	Effect of Omega 3,6,9 and Vitamin E on Doxirubicin Induced Cardiotoxicity in Rats Dr. Ahmed Fayez			
		Arwa Osama	Amal Abdel Rahman	Toqa Zaki
RSPB2-1	In-Vitro Study of Combined Therapy of Thymoquinone and 5-Flurouracil against Some Colon Cancer Cell Lines Associate Prof. Ahmed Bader AL. Samer Atef			
		Hend Essam	Janset Safwat	Nihal Essam
RSPB2-2	The Prophylactic Effect of Bacopa Monnieri Extract in Rats with Alzheimer's disease Induced by Aluminum Chloride Dr. Nora Abo Rehab TA. Radwa Saeed			
		Amr Samir	Aya Nabil	Eman Zaghloul































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