



Faculty of Pharmacy

Annual Report

2017 – 2018



This work is the outcome of continuous efforts exerted by teaching staff members along one year under the leadership of Faculty of Pharmacy Dean:

Prof. Mohamed Baraka

Prepared by:

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Assistant Director of Quality Unit: Assis Prof. Manal ElMasry

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Faculty vision:

The faculty of Pharmacy, Zagazig University vision is to be a regionally and globally accredited educational and research institute with a great contribution to the society.

Mission:

The faculty of Pharmacy, Zagazig University aims to provide the local and regional community with highly qualified, multidisciplinary and professional pharmacists with ethical values and able to participate in the development of drug industry and quality assurance as well as contribute to a distinguished health service to the society. This is achieved through developing and upgrading the academic programs, teaching and learning methods, supporting various student activities, developing the abilities of the staff members, their assistants and administrative members, enhancing the oriented applied and scientific research and providing the continuous pharmaceutical education.

Values:

- ✓ Seriousness, efficiency and effectiveness
- ✓ Prevailing the public interest
- ✓ Tolerance and acceptance of the other
- ✓ Equality, transparency and social justice
- ✓ Excellence and continuous development

1. Introduction:

Faculty of Pharmacy is pleased to present its annual report for the academic year 2017 – 2018. The report is prepared based on collected data, which includes a wealth of metrics and statistics to assess the faculty progress in pursuit of its mission and vision. We are committed to excellence which is measured by our outcomes across the full range of teaching, research, professional activities and community service activities. It also highlights challenges and priorities for improvement.

The report presents continuous efforts exerted at different levels (administration and teaching staff members) in order to achieve the faculty goals.

2. Establishment of the faculty:

Faculty of Pharmacy – Zagazig University was established in 1975 and graduated the first batch in 1979. It is the first faculty in the university that was accredited by the National Authority for Quality Assurance of Education and Accreditation (NAQAAE) in April 2014.

3. Organization Structure & Leadership:

Table 1. Faculty of Pharmacy management.

Faculty Dean	Professor Mohamed Baraka
Vice Dean for Education and Students Affairs	Professor Ghada Shaker
Vice Dean for Postgraduate studies & Research	Professor Hanan Elnahas
Vice Dean for environmental Development & Community service	Professor Mervat Hosny

Faculty of Pharmacy organization structure reflects the three main activities of the faculty that includes: education, research and community service. Faculty administration is managed by the Faculty Council, Dean, Vice Dean for Education and Students Affairs, Vice Dean for Postgraduate studies & Research and Vice Dean for environmental Development & Community service as illustrated in the above table. There are 9 academic departments in the faculty as follows:

- Medicinal Chemistry
- Pharmaceutical Organic chemistry
- Analytical chemistry.
- Pharmacognosy

- Pharmacology & Toxicology
- Biochemistry
- Microbiology & Immunology
- Pharmaceutics & Industrial Pharmacy
- Pharmacy practice

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Fax: 055/2303266

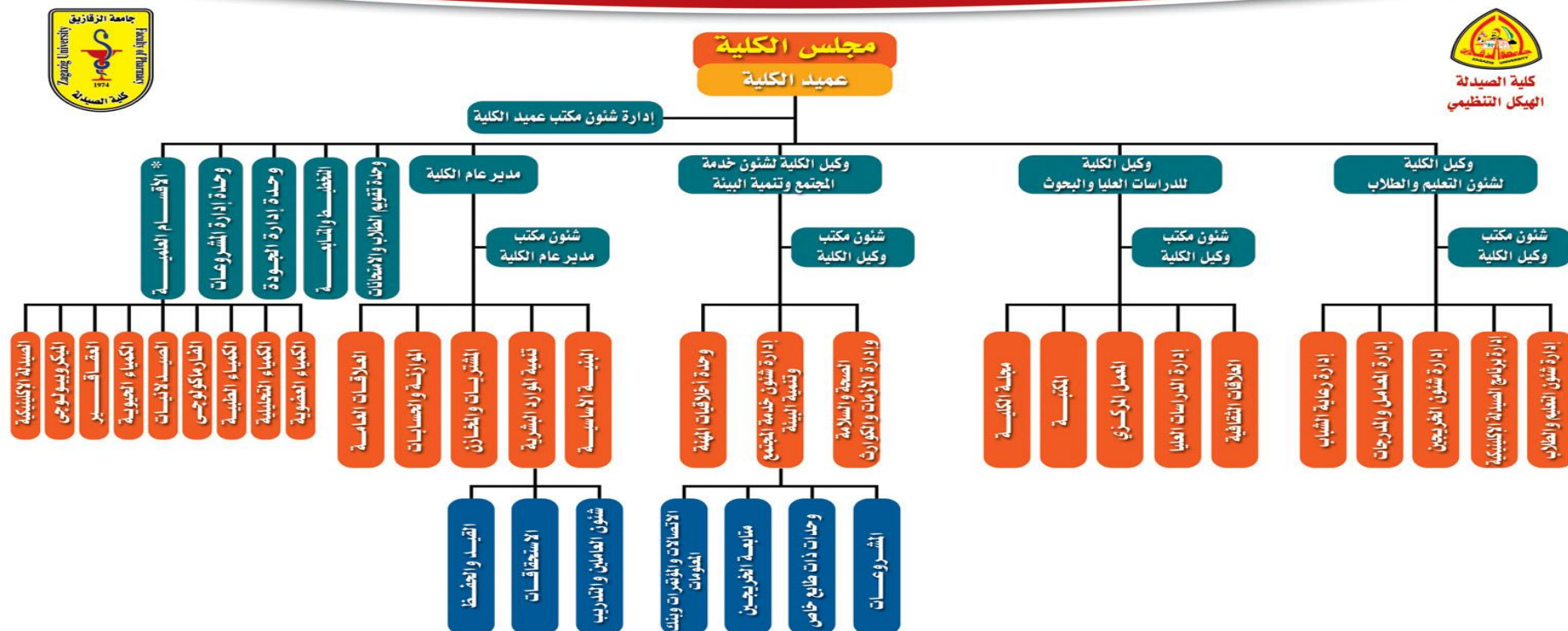


Figure 1. Faculty of Pharmacy organization structure.

4. Strategic planning:

Strategic planning unit was established in September 2017 and will be added to the organization structure. Faculty of Pharmacy has prepared its new strategic plan 2017 – 2022. The strategic plan is based on 7 strategic goals and 25 strategic objectives that include:

1. High quality learning environment:

1.1. Expansion of buildings and constructions and maintenance of teaching halls and equip them with equipment hardware and materials needed.

2. Development of managerial and administrative capacities:

2.1. Maintain justice and accountability

2.2. Development of human resources

2.3. Implementation of technology in communication between different departments within the faculty

2.4. Development of the faculty website

3. Improvement of educational effectiveness:

3.1. Continuous updating of educational courses

3.2. Maximize the role of self-learning and e-learning

3.3. Continuous development of teaching methods

3.4. Expansion of cooperative education and use different field experts in teaching

3.5. Improvement of methods of students assessment

3.6. Improvement of students support and services

3.7. Implementation of student mentoring system for first year students of bachelor of pharmacy program

3.8. Strengthen the relationship between the graduates and the faculty

4. Upgrading postgraduate studies and scientific research:

4.1. Establishment of new professional diploma programs

4.2. Continuous development of postgraduate courses

4.3. Improvement of the faculty scientific journal

4.4. Correlate scientific research with the problems of the pharmaceutical industry (applied research)

4.5. Arranging scientific conferences

4.6. Developing a mechanism to measure the efficiency of the research process

5. Expansion in community service and environment development:

5.1. Activate the role of the faculty in solving the problems of the surrounding environment

5.2. Expansion of medical convoys and awareness campaigns within and outside the university

6. Commitment to the application of quality standards in education:

6.1. Increase awareness about the quality and its latest developments

6.2. Commitment to implement the standards of the National Authority for Quality Assurance of Education and Accreditation

6.3. Renewal of academic accreditation

7. Development of faculty financial resources:

7.1. Develop faculty capacity and resources

5. Quality assurance & development:

Since faculty of Pharmacy is an accredited faculty, so we are committed to the application of quality assurance measurements in the different processes run within the faculty.

Table 2: Distribution of quality assurance measurements throughout the year.

Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	August
Annual faculty report preparation	Measure job satisfaction of teaching staff members and administrators	distribution of graduate and employer surveys	1- course surveys are distributed to students 2- internal auditing of: exams control rooms scientific departments		1-course survey analysis results are sent to the high management & Heads of Departments 2-course coordinators submit course portfolio of the last semester	Internal auditing of: 1. High management 2. Administrative departments	1-course & support services surveys are distributed to students	Analysis of 2 nd term surveys and submitting the report to the faculty management			Ask Heads of Departments & vice deans to submit their annual achievements reports

6. Teaching staff members & assistants:

a. Teaching staffs:

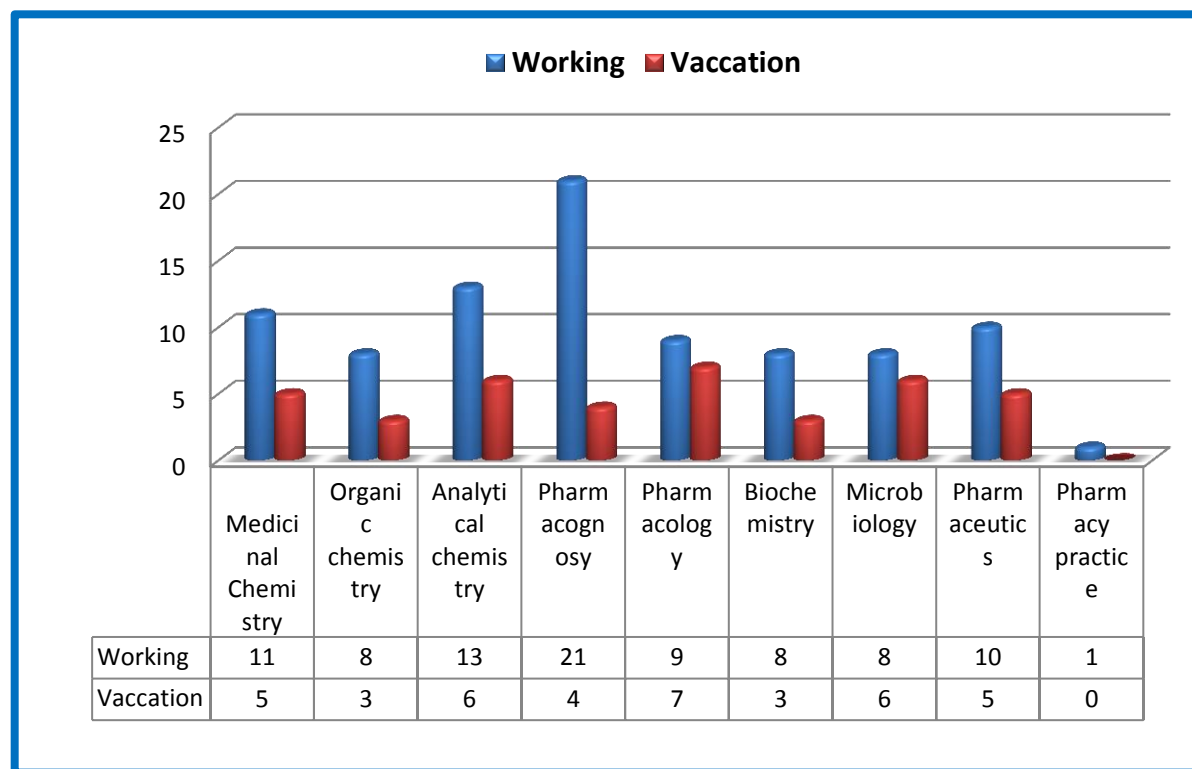


Figure 2. Number of teaching staffs in different faculty departments.

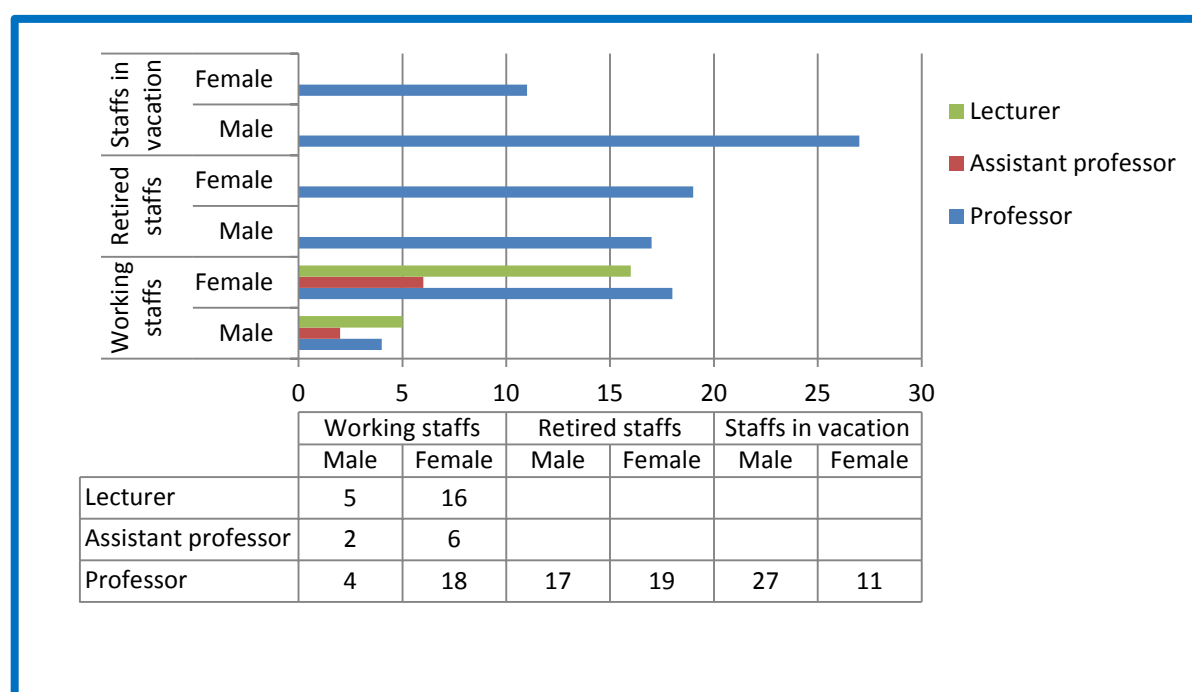


Figure 3. Classification of teaching staffs.

b. Demonstrators & assistants lecturers:

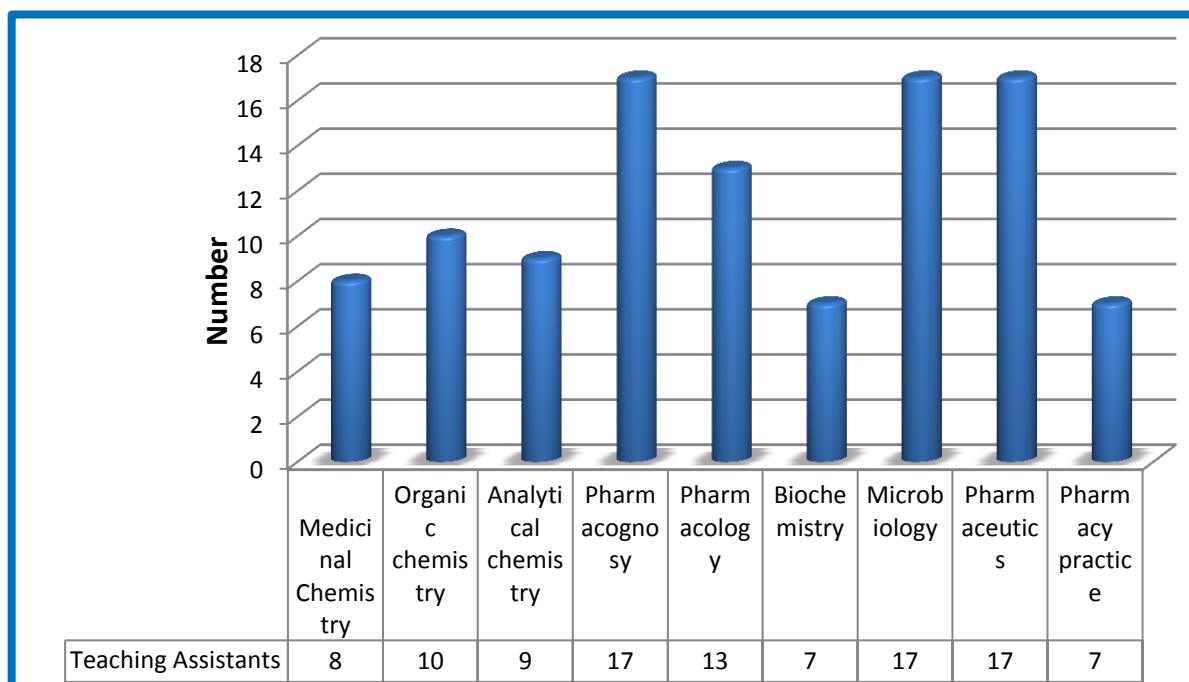


Figure 4. Number of demonstrators & assistant lecturers in different faculty departments.

7. Administrators:

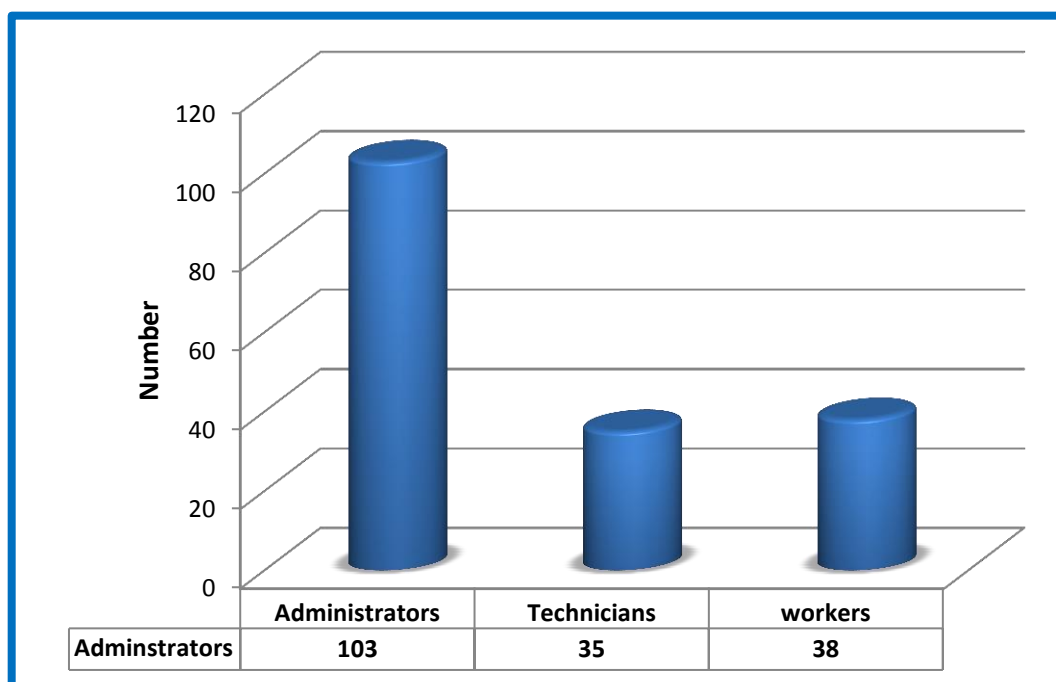


Figure 5. Number of administrators and their classification.

8. Financial resources:

Adequate resources are an integral part of achieving the faculty mission and vision. Enhancing and creating efficiencies in budget and physical space are the keys to the process that should support our mission and vision.

8.1. Budget:

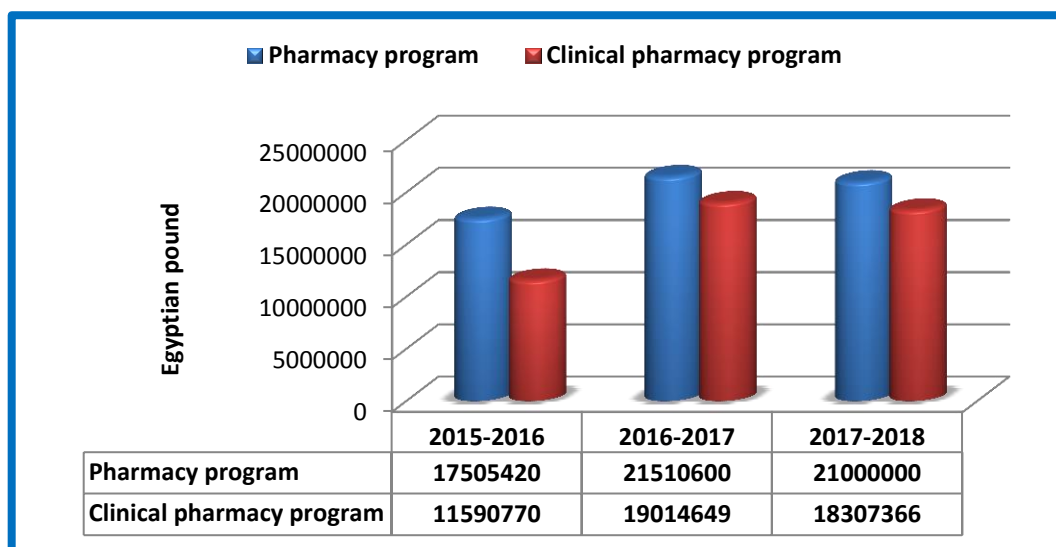


Figure 6. Faculty of Pharmacy budget within 3 academic years (2015 – 2018).

8.2. Infrastructure renovation:

2017–2018 was an active year for infrastructure renovations and enhancements to meet the needs of our students and staff.

- ✓ Establishment of the fourth floor of the faculty administrative building including 4 lecture halls, 3 laboratories in addition to 3 offices with a cost of 6 million pounds.



- ✓ Renovation of lecture hall C (addition of 6 air conditioners , curtains and painting)



- ✓ Renovation of organic chemistry labs and toilets in the faculty laboratory building with a cost of 350,000 pounds.
- ✓ Air conditioning of the exam control rooms (5 air conditions).
- ✓ Renovation of the animal house with the addition of 2 new air conditioners
- ✓ Fixation of the fingerprint system for administrators
- ✓ Repairing all wireless audio devices at a cost of 14900 pounds. 11/2017
- ✓ Start of the construction of a panoramic elevator in the labs building with a cost of 450 thousand pounds

- ✓ Purchasing a photocopier (the Ministry of Military Production -Benha for Electronic Industries) at a cost of 65,000 pounds and 15,000 pounds to buy 4 data show devices.
- ✓ Purchase of a Molecular modelling software license and (3) computers.
- ✓ 99, 691, 25 pounds for maintenance of the public high plate and sub-cables feeder for the laboratory buildings in the faculty.
- ✓ 30,000 pounds for fixing an iron fence on the roof of the administrative building.
- ✓ 23,000 pounds for the installation of a special call centre for the faculty.
- ✓ 279,645 pounds for the maintenance of electrical panels in the laboratories building.
- ✓ Installation of 11 cameras on the entrances of the faculty and 2 cameras for the exam control rooms.

9. Academic standards and educational programs:

Faculty of Pharmacy programs for undergraduate and postgraduate students are based on the national academic standards published by NAQAAE, 2009. There is a plan to redesign the undergraduate programs according to the new academic standards for pharmacy education, 2017. Accordingly, the programs will be competency based to develop 12 competencies in 4 domains necessary for the pharmacy profession: fundamental knowledge, professional & ethical practice, pharmaceutical care and personal practice. This will necessitate a shift in our teaching from passive into active learning.

Faculty of Pharmacy offers both undergraduate and postgraduate programs as illustrated in the following table:

Table 3. Academic programs offered by Faculty of Pharmacy.

Programs	Duration
I. Undergraduate programs:	
Bachelor of Pharmacy (177 hours)	5 years
Bachelor of Pharmacy (Clinical Pharmacy) (186 CU)	5 years

II. Postgraduate programs:

Master and Ph-D programs in the following specialities:

Medicinal Chemistry

Biochemistry

Pharmacology & Toxicology

Analytical Chemistry

Pharmaceutics & Industrial Pharmacy

Pharmacognosy

Microbiology & Immunology

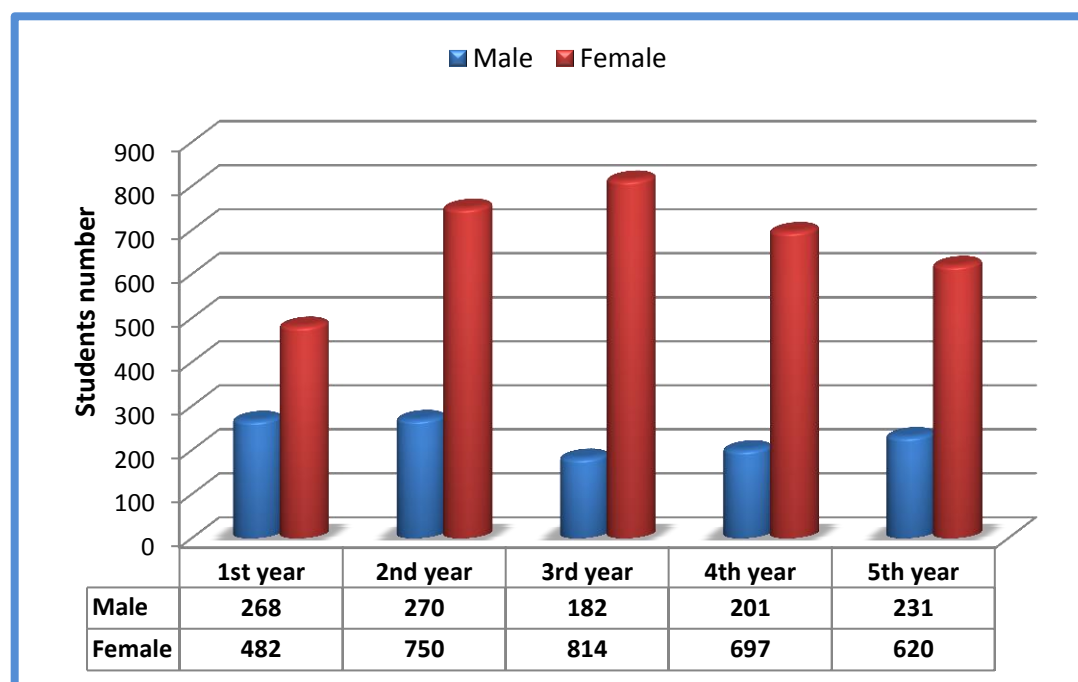
Pharmaceutical Organic Chemistry

Pharmacy Practice

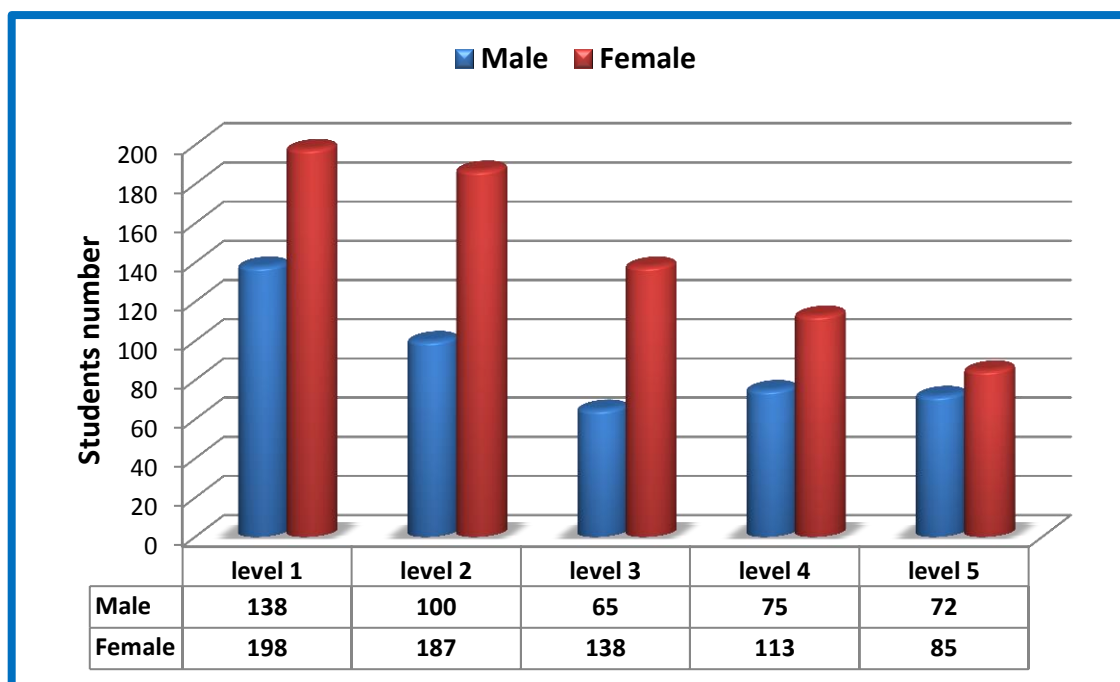
Clinical Pharmacy Diploma (30 CU)

1 year

10. Students & graduates statistics:



**Figure 7. Statistics of students' enrolment in different levels
(Bachelor of pharmacy)**



**Figure 8. Statistics of students' enrolment in different levels
(Bachelor of pharmacy, clinical pharmacy)**

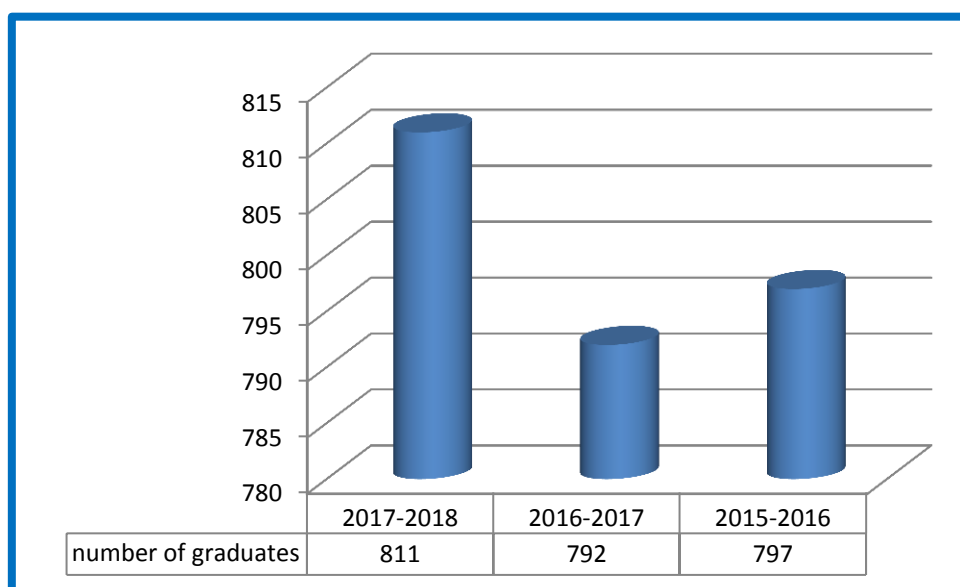


Figure 9. Statistics of graduates in the last three years (Bachelor of pharmacy).

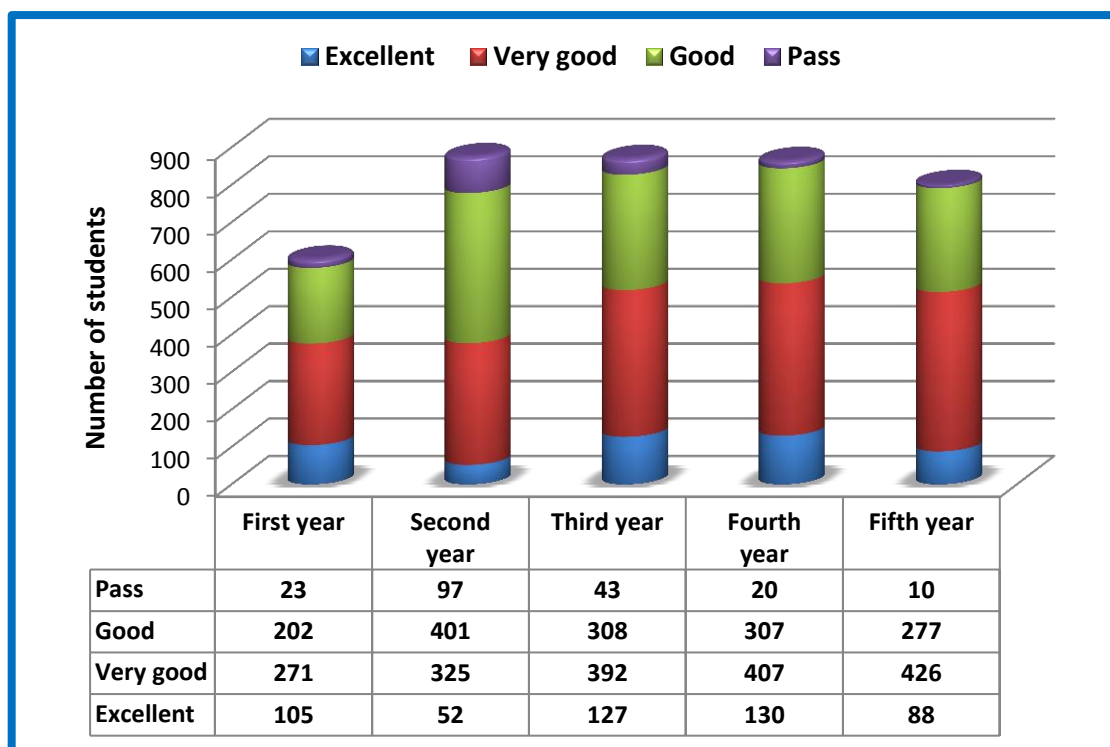


Figure 10. Statistics of students grades in different levels (Bachelor of pharmacy).

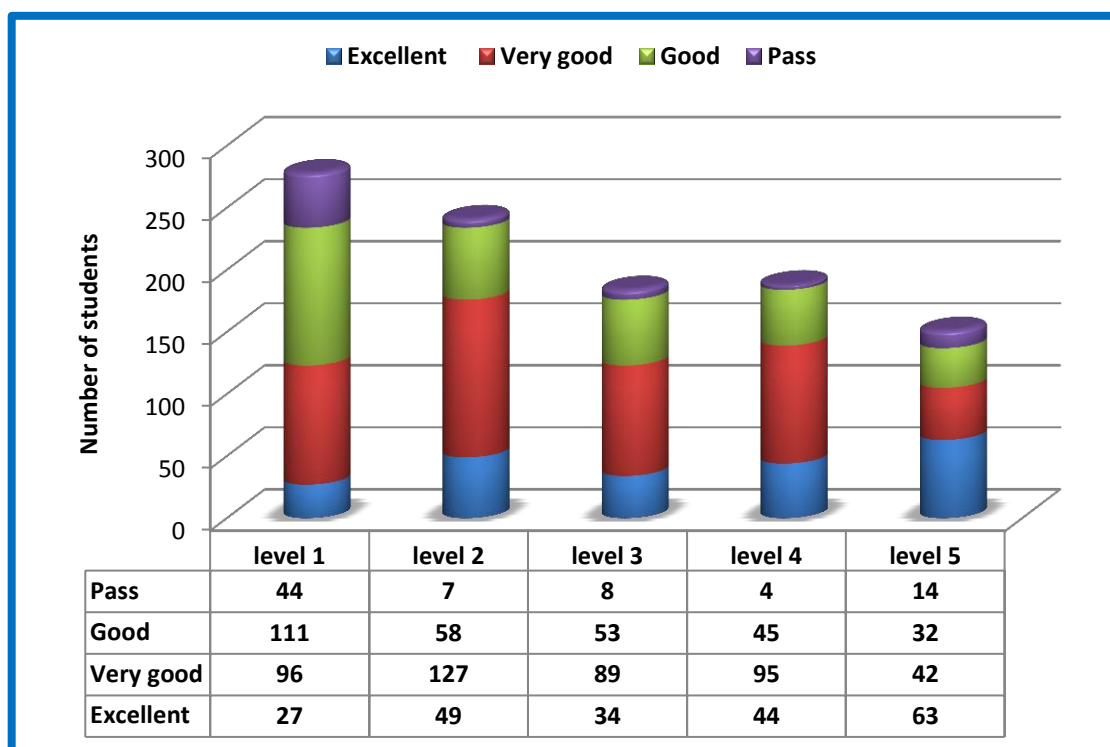


Figure 11. Statistics of students grades in different levels (Bachelor of pharmacy, Clinical Pharmacy).

10.1. Graduates Association:

One of the priorities of the Faculty of Pharmacy is to build strong relationship with its graduates through introducing a variety of services. Graduates Association is one of the significant units in the Faculty that regularly deliver continuous education programs to pharmacy graduates.



برنامج إدارة الصيدلة الاكلينيكية
Clinical Pharmacy Management

محاضرات
X
ساعات
X
أيام

البرنامج محمي ومسجل ملكية فكرية برقم 11812/15 بوزارة الثقافة
وتحت إشراف جمعية خريجي كلية الصيدلة بجامعة الزقازيق بالتعاون مع وحدة التدريب بكلية الصيدلة
جامعة الزقازيق - FOPZU-Training Unit

لماذا هذا البرنامج؟
لأنه البرنامج الوحيد الذي يقدم للصيدي تفاصيل إدارة وتطبيق الصيدلة الاكلينيكية
Management and Practice of Clinical Pharmacy
وفق أحدث معايير ممارسة المهنة من أحدث وأهم المراجع والمصادر الموثوقة

- * اعداد دليل أدوية المستشفى Hospital Drug Formulary (خطة عمل كاملة - تدريب على اعداد جزء من الدليل).
- * اعداد سياسات المضادات الحيوية Antibiotics Policy (خطة عمل كاملة - تدريب على اعداد جزء من السياسات).
- * اعداد وكتابة تقارير الصيدلة الاكلينيكية Clinical Reports (نماذج حقيقية - تدريب على كتابة التقارير).
- * اعداد تقارير الأخطاء العلاجية Medication Error Report (نماذج - تدريب على كتابة تقارير الأخطاء العلاجية).
- * اعداد نشرة المعلوماتية الدوائية Drug Information Newsletter (نموذج تدريبي تفاعلي).
- * اعداد المعلوماتية الدوائية (كيفية إنشاء قسم المعلوماتية الدوائية - مخطط تلقي الاستفسارات والرد عليها).
- * المشاركة الفعالة في اللجان التي تضم الصيدلي الاكلينيكي (ما هي اللجان؟ ما دورك فيها؟).
- * قراءة ملف المريض وتحليله بدقة لاتخاذ القرار (الأسس الاستقرار - تدريب على ملفات واقعية).
- * التواصل الفعال مع فريق العمل الطبي (الأسس التواصل الفعال - حالات محاكاة للواقع).
- * القيام بدوركم كموجه ومدرب في أنشطة التعليم المستمر للطواقم الطبي. (اعداد خطط برامج التعليم المستمر).

الرسوم: ٩٥٠ جنيه
خصم ٢٠٠ جنيه لأعضاء الجمعية والعاملين بمستشفيات جامعة الزقازيق
والترشيحات الرسمية من خلال المستشفيات الحكومية والخاصة وتشمل الرسوم
الشهادة المعتمدة من جمعية الخريجين ووحدة التدريب - كلية الصيدلة - جامعة

العنوان : ١٩ - شارع ابوبكر الصديق - آخر شارع الاستاد - قنصل الجامعة - الزقازيق
الايميل : info@SCQMT.com
تليفون : ٠٥٥-٢٣٦٤٣٦٥
موبايل : ٠١١١-٢٣٦٤٣٦٥ - التسجيل الالكتروني بالموقع : www.SCQMT.com

Sg Training

11. Media Coverage:

11.1. Newspapers:

Great events arranged by the faculty were recorded in different newspapers as follows:

➤ SHARKIATODAY.COM (3 Oct. 2017):

(Graduation of the 39th patch of Faculty of Pharmacy – Zagazig university)

A graduation ceremony for the 39th batch from the Faculty of Pharmacy, Zagazig University, was held on Tuesday morning in the conference hall at the university's stadium in the presence of University President (Prof. Khaled Abd El-Bari), Former University President (Prof. Maher El-Domiattee), Vice President for education and students affairs (Prof. Abd ElHakeem Nour ElDeen), Vice President for postgraduate and research affairs (Prof. Mervat Askar), Naqeeb of Egyptian Pharmacists (Dr. Mohee Obaid).



➤ **Masrawi (17 Oct. 2017):**

Zagazig University is celebrating the graduation of the 39th patch of pharmacy students.



➤ **7th Day (11 Oct, 2017):**

Faculty of Pharmacy is arranging the Mobile Festival with the participation of 5 universities.



➤ **Shababeek:**

Recognition of Zagazig University President (Prof. Khaled Abd El-Bari) in the Excellence Day in Faculty of Pharmacy.

[الرئيسية](#)[جديد الطلبة](#)[الرواقان](#)[مشاركات](#)[فرمان](#)[روشة الطالب](#)[حواري التعليم](#)[الطلبة](#)[المزيد](#)



تكريم رئيس جامعة الزقازيق في يوم التفوق بكلية الصيدلة

Activate Windows
Go to PC settings to activate Windows

➤ **Kashkool:**

Faculty of Pharmacy, Zagazig University is celebrating the graduation of the first batch of Clinical Pharmacy Diploma.

[الرئيسية](#)[مدارس](#)[جامعات](#)[أزهر](#)[تحقيقات](#)[حوارات](#)[جراف](#)[عناقا](#)

صيدلة الزقازيق تحتفل بتخريج الدفعة الأولى من دبلوم الصيدلة الإكلينيكية

السبت 08/سبتمبر/2018 - 10:48 م



هل تؤيد نظام الثانوية العامة

3 سنوات
سنة واحدة

تصويت النتائج


الأكثر قراءة

«الكشري والتونة» أحدث وجبات المدن الجامعية
بالصور.. ولاية أمر تسلط
كلب شرس على تلميذ
ضرب نجلتها

➤ **AlAhram (13 April, 2018):**

Next Sunday, the 7th scientific conference of Zagazig Pharmacy will discuss the updates in pharmacy research.


الإشراف العام
 إلهام أبو الفتوح
 من التحرير
 صيري
 للتحرير
 حياء نوار




الرئيسية أهم الأخبار أخبار البلد حوادث رياضة فن أصل الحكاية بين الناس توك شو




أحمد موسى: إنه ميلانيا ترامب الاحتراق في الج




معلومات جديدة حول متفقد عمليه التفجير في كيرتش الروسية



هيفاء وهي تهدد متابعيها على السجرام .. تعرف على السنيب



وزير التعليم: لم تصدر أمرا إداريا بإغلاق صفحات المدارس على




الحياة تبدأ بعد الـ70.. عروس عمرها 100 عام تتزوج عريسا

محافظات

المؤتمر العلمي السابع لصيدلة الزقازيق يناقش الجديد في البحوث الصيدلانية..الأحد المقبل

الجمعة 13/أبريل/ 2018 - 02:15 ص

رئيس مجلس الإدارة
 عبدالمحسن سلامة
 رئيس التحرير
 محمد إبراهيم الدسوقي



بوابة الأهرام

الأربعاء 17 أكتوبر 2018 | إعلانات | اشتراكات | اتصل بنا


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بحث

محافظات

مناقشة عشرين بحثاً علمياً جديداً في المؤتمر الطلابي السابع بـ"صيدلة الزقازيق"

15:41 | 10-4-2018



المؤتمر السابع لطلاب صيدلة الزقازيق

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الأكثر قراءة

بولتين: ضخ 7 مليارات دولار استثمارات بالمنطقة الصناعية الروسية في بورسعيد

إلغاء عقوبة تعاطي المخدرات!!

الحبيب الجفري يطالب بإعادة صياغة الإعلان العالمي لحقوق الإنسان واحترام تنوع الثقافات

الرئيسان السيسي وبوتين يبحثان التعاون الاقتصادي وعودة الطهران الروسية إلى شرم الشيخ والغردقة

ضبط "كبشة" لكسر زجاج فرامل الطوارق بقطار مترو أنفاق الخط الأول

مجلس الوزراء يوافق على إنشاء خط أنابيب بحري مباشر للغاز الطبيعي بين مصر وقبرص

خبراء: 6 آلاف دولار دخل الفرد سنوياً في 2022.. بشروط

محافظ دمياط: التحرش الجنسي بالأماكن العامة بحث بكل دول العالم

ساديو ماني يخضع لعملية جراحية بعد إصابته خلال التوقف الدولي

تظاهره بالموت قتل زوجته وأولاده!

حملة أملية لإعادة الانضباط بشوارع الغردقة | صور

إخلاء عقار مائل بالمنصورة لخطورته الداهية بعد توصية بهدم 4 أوار والترميم

➤ 7th Day (10 April, 2018):

Faculty of Pharmacy is discussing 20 scientific articles in the 7th scientific conference.



➤ Al-Goumhoria:



11.2. Facebook:

[Mubasher.Pharmacy@Messenger](https://www.facebook.com/Mubasher.Pharmacy@Messenger) (No of followers = 22,722)

12.Academic Staff Achievements:

12.1. Medicinal chemistry department:

a. Publications:

1. Ali Fouad, Adel A. Marzouk, Mahmoud M. Sebaiy, Samy M. Ibrahim, Sobhy M. El-Adl. "A novel polymer-based monolithic capillary with sulphated β cyclodextrin chiral for the enantioselective pharmaceutical analysis by nano-HPLC". *Der Pharmacia Lettre*. 10(6): 63-80 (2018).
2. Faten Zahran, Mustafa Hammadi, Muayad Al-dulaimi, Mahmoud M. Sebaiy. "Potential Role of Sulfur Nanoparticles as Antitumor and Antioxidant in Mice". *Der Pharmacia Lettre*. 10(5): 7-26 (2018).
3. Mahmoud M. Sebaiy, Magda M. El-Henawee, Hisham E. Abdellatef, Mustafa Kh. Alshuwaili. "Introducing FDA Validation Guidelines for the Spectrophotometric Determination of Olopatadine Hydrochloride in Pure Form and Eye Drops". *Der Pharmacia Lettre*. 10(1): 45-57 (2018).
4. Mahmoud M. Sebaiy and Christa L. Colyer. "Polymer Enhanced Capillary Transient Isotachophoresis with Boronic Acid Functionalized Squarylium Dyes for the Fluorescent Determination of Digoxin and Digoxigenin". *Anal. Lett.* 50(16): 2530–2548. DOI: 10.1080/00032719.2017.1312426. (2017).
5. Crespo I, Giménez-Dejoz J, Porté S, Cousido-Siah A, Mitschler A, Podjarny A, Pratsinis H, Kletsas D, Parés X, Ruiz FX, Metwally K. Design, synthesis, structure-activity relationships and X-ray structural studies of novel 1-oxopyrimido [4, 5-c] quinoline-2-acetic acid derivatives as selective and potent inhibitors of human aldose reductase. *European journal of medicinal chemistry*, 25;152:160-74, (2018).
6. Metwally, K., Pratsinis, H., Kletsas, D., Quattrini, L., Coviello, V., Motta, C.L., El-Rashedy, A.A. and Soliman, M.E., 2017. Novel quinazolinone-based 2, 4-thiazolidinedione-3-acetic acid derivatives as potent aldose reductase inhibitors. *Future medicinal chemistry*, 9(18), pp.2147-2166.

7. El-Sayed, S., Metwally, K., El-Shanawani, A.A., Abdel-Aziz, L.M., Pratsinis, H. and Kletsas, D., 2017. Synthesis and anticancer activity of novel quinazolinone-based rhodanines. *Chemistry Central Journal*, 11(1), p.102
8. Metwally, K., Pratsinis, H. and Kletsas, D., 2017. Novel 2, 4-thiazolidinediones: synthesis, in vitro cytotoxic activity, and mechanistic investigation. *European journal of medicinal chemistry*, 133, pp.340-350.
9. Noureldin, N.A., Kothayer, H., Lashine, E.S.M., Baraka, M.M., Huang, Y., Li, B. and Ji, Q., 2018. Design, synthesis and biological evaluation of novel quinazoline-2, 4-diones conjugated with different amino acids as potential chitin synthase inhibitors. *European journal of medicinal chemistry*, 152, pp.560-569.
10. Somasagara, R.R., Spencer, S.M., Tripathi, K., Clark, D.W., Mani, C., da Silva, L.M., Scalici, J., Kothayer, H., Westwell, A.D., Rocconi, R.P. and Palle, K., 2017. RAD6 promotes DNA repair and stem cell signaling in ovarian cancer and is a promising therapeutic target to prevent and treat acquired chemoresistance. *Oncogene*, 36(48), p.6680.
11. Noureldin, N.A., Kothayer, H., Lashine, E.S.M., Baraka, M.M., El-Eraky, W. and Awdan, S.A.E., 2017. Synthesis, Anticonvulsant Activity, and SAR Study of Novel 4-Quinazolinone Derivatives. *Archiv der Pharmazie*, 350(2), p.1600332.
12. El-Sayed, A.M., Ibrahim, S.M., Soltan, M.K. and Abo-Kul, M.E., 2017. Synthesis and antimicrobial activity of newly synthesized 4-substituted-pyrazolo [3, 4-d] pyrimidine derivatives. *Medicinal Chemistry Research*, 26(6), pp.1107-1116.
13. Elbaramawi, S.S., Ibrahim, S.M., Lashine, E.S.M., El-Sadek, M.E., Mantzourani, E. and Simons, C., 2017. Exploring the binding sites of Staphylococcus aureus phenylalanine tRNA synthetase: A homology model approach. *Journal of Molecular Graphics and Modelling*, 73, pp.36-47.
14. Hamdy, R., Ziedan, N.I., Ali, S., Bordoni, C., El-Sadek, M., Lashin, E., Brancale, A., Jones, A.T. and Westwell, A.D., 2017. Synthesis and evaluation of 5-(1H-indol-3-yl)-N-aryl-1, 3, 4-oxadiazol-2-amines as Bcl-2 inhibitory anticancer agents. *Bioorganic & medicinal chemistry letters*, 27(4), pp.1037-1040
15. Elewa, M., Maltar-Strmečki, N., Said, M.M., El Shihawy, H.A., El-Sadek, M., Frank, J., Drescher, S., Drescher, M., Mäder, K., Hinderberger, D. and Imming, P., 2017. Synthesis and EPR-spectroscopic characterization of the perchlorotriarylmethyl tricarboxylic acid radical (PTMTC) and its ¹³C labelled

analogue (13C-PTMTC). Physical Chemistry Chemical Physics, 19(9), pp.6688-6697.

16. Ziedan, N.I., Hamdy, R., Cavaliere, A., Kourti, M., Prencipe, F., Brancale, A., Jones, A.T. and Westwell, A.D., 2017. Virtual screening, SAR, and discovery of 5-(indole-3-yl)-2-[(2-nitrophenyl) amino][1, 3, 4]-oxadiazole as a novel Bcl-2 inhibitor. Chemical biology & drug design, 90(1), pp.147-155.
17. Hamdy, R., Ziedan, N.I., Ali, S., Bordoni, C., El-Sadek, M., Lashin, E., Brancale, A., Jones, A.T. and Westwell, A.D., 2017. Synthesis and evaluation of 5-(1H-indol-3-yl)-N-aryl-1, 3, 4-oxadiazol-2-amines as Bcl-2 inhibitory anticancer agents. Bioorganic & medicinal chemistry letters, 27(4), pp.1037-1040.

b. Conference participation & attendance:

- Organization of the 4th conference of medicinal chemistry department. Sunday 11th March 2018.

12.2. Pharmaceutical Organic chemistry department:

a. Publications:

1. Benzotriazole –Mediated Synthesis and Antibacterial Activity of Novel N-acetylcephalexins. Khalid A.Agha, Nader E. Abo-Dya ,Tarek S.Ibrahim ,Eatedal H.Abdel-Aal and Wael A.Hegazy.
2. Synthesis, Anti-inflammatory and Antimicrobial Evaluation Of Nicotinamides Bearing Thiazole And Pyrazoline Pharmacophores. Zakaria K.Abdel-Samii, Hanan A.Abdel-Fattah, Amany M.Al-mahmoudy and Elsayed M.Mahmoud.
3. Synthesis of Novel Thiazolidinedione Derivatives and Evaluation of Their Antiviral Activity. Zakaria Kamel Abdel-Samii, Eatedal H.Abdel-Aal, Amany Ghanium and Basant Mohamed.
4. Synthesis and Biological Evaluation of Novel Mono-peptide, Thiadiazole, Triazole and Oxadiazole Derivatives. Zakaria K.Abdel-Samii, Hanan A.Abdel-Fattah, Abdalla Sh.El Etrawy, Sherief M.Abdel-Wahab and Paris E.Georgiou.
5. Synthesis, Molecular Modeling and Antitubercular Studies of Diphenyl Ether derivatives . Amany M.Al-mahmoudy, Tarek S.Ibrahim, Siva S.Panda, Zeinab H.Helal.

6. Docking, Synthesis and Biological Evaluation Of Novel Pyrazoline Derivatives as Potential Antimicrobial and Antitumor Agents. Zakaria K. Abdel-Samii, Hanan A. Abdel-Fattah, Amany M. Al-mahmoudy and Elsayed M. Mahmoud.
7. Synthesis and Anticancer Activity of Some Novel Pyrimidine Derivatives. Eatedal H. Abdel-Aal, Nermine A. Osman, Amany M. Al-mahmoudy and Alaa N. Hassan.
8. Synthesis, Anticonvulsant Activity and Cytotoxicity of Novel Valproic Acid derivatives. Taghreed Abdelstar Sheha, Tarek Salah Ibrahim, Nader Elmaghawry Abo-Dya, Mohamed Tantawy, Mostafa El-Nagar, Zakaria Kamel Abdel-Samii.
9. Synthesis, Docking and Biological Evaluation of Novel Mono peptide Derivatives. Zakaria K. Abdel-Samii, Hanan A. Abdel-Fattah, Abdalla Sh. El Etrawy, Sherief M. Abdel-Wahab and Paris E. Georghiou.

b. Conference participation & attendance:

- Organization of the 3rd scientific Conference Of organic chemistry department, 22/11/2017.

12.3. Analytical chemistry department:

a. Publications:

1. "Comparative study of six sequential spectrophotometric methods for quantification and separation of ribavirin, sofosbuvir and daclatasvir: An application on Laboratory prepared mixture, pharmaceutical preparations, spiked human urine, spiked human plasma", Wafaa S. Hassan, Manal S. Elmasry, Heba M. El-Sayed, Dalia W. Zidan, Spectrochim. Acta Part A Mol. Biomol. Spectrosc. 202 (2018) 159–173. DOI:10.1016/j.saa.2018.05.041.
2. "A High-throughput fluorometric method for quantitation of besifloxacin hydrochloride using microplate reader", Soad S. Abd El-Hay, Heba M. El-Sayed, Curr. Pharm. Anal. 14 (2018) 198–203. DOI:10.2174/1573412913666170126143008
3. "Multivariate analysis of tioconazole — TCNQ charge transfer interaction: Kinetics, thermodynamics and twofold response optimization", Manal S. Elmasry, Marwa S. Elazazy, Heba M. El-Sayed, Spectrochim. Acta Part A Mol. Biomol. Spectrosc. 202 (2018) 401–409. DOI:10.1016/j.saa.2018.05.062.
4. "Eco-friendly environmental trace analysis of thorium using a new supramolecular solvent-based liquid-liquid microextraction combined with spectrophotometry",

- Ayman A. Gouda, Manal S. Elmasry, Hisham Hashem, Heba M. EL-Sayed, *Microchem. J.* 142 (2018) 102–107. DOI:10.1016/j.microc.2018.06.024.
5. " Quality by design approach for development and validation of a RP-HPLC method for simultaneous determination of co-administered levetiracetam and pyridoxine HCl in prepared tablets", Hisham Hashem, Heba M. El-Sayed, *Microchem. J.* 143 (2018) 55–63. DOI:10.1016/J.MICROC.2018.07.031.
 6. "Investigation of anti-Hepatitis C virus, sofosbuvir and daclatasvir, in pure form, human plasma and human urine using micellar monolithic HPLC-UV method and application to pharmacokinetic study". Dalia W. Zidan, Wafaa S. Hassan, Manal S. Elmasry, Abdalla A. Shalaby. *Journal of Chromatography B*, 2018, 1086 (1), 73-81.
 7. Validated Stability-Indicating Methods for Determination of Mometasone Furoate in Presence of its Alkaline Degradation Product" Rania A. Sayed, Manal S. El-Masry, Wafaa S. Hassan, Magda Y. El-Mammli, Abdalla Shalaby. *Journal of Chromatographic Science*, 2018, 56 (3), 254–261.
 8. "Validated HPLC Method for the simultaneous determination of acyclovir and co-administered vitamin B3 and gabapentin in spiked human plasma" Rania Sayed, Manal S. Elmasry, Wafaa Hassan, Magda El-Mammli, Abdalla Shalaby, Hassan Y. Aboul-Enein. *Separation Science Plus*, 2018, 1, 475–482.
 9. "The Use Of Surface Plasmon Resonance Band Of Green Silver Nanoparticles and Conductometry For Quantitative Determination Of Minor Concentrations of Doxycycline hyclate And Oxytetracycline HCl in Pure and Pharmaceutical Dosage Forms." Rania A. Sayed, Manal S. El- Masry, Wafaa S. Hassan, Magda Y. El-Mammli, Abdalla Shalaby. Accepted for publication in the *International Journal of Nanomanufacturing*, (2018).
 10. "Development and Application of Degradation Kinetics of Thin layer Chromatographic Densitometry and Conductometric Methods for Butoconazole Nitrate Determination. " Rania Sayed, Abdalla Shalaby, Magda Y. El-Mammli, Manal S. Elmasry, Wafaa S. Hassan Accepted for publication in *Annales Pharmaceutiques Françaises*, (2018).
 11. "A New Separation and Enrichment Method of Heavy Metals in Water and Food Samples Using 2-(2'-Benzothiazolylazo)-6-Aminophenol Impregnated Multi-Walled Carbon Nanotubes.", Soad S. Abd EL-Hay, Hibah Aldawsari, Ayman A. Gouda. (2018), *Current Analytical Chemistry*; 14:120-128.

12. "Development of High-Throughput Method for Measurement of Vascular Nitric Oxide Generation in Microplate Reader." Soad S. Abd El-Hay, Christa L. Colyer. (2017) *Molecules*; 22: 127-136.
13. 'Liquid chromatography-tandem mass spectrometric determination of propofol in rat serum and hair at attogram level after derivatization with 3-bromomethyl-propyphenazone.' Alaa Khedr, Soad S.Abd El-Hay, Ahmed K. Kammoun. (2017) *Journal of Pharmaceutical and Biomedical Analysis*; 134: 195-202
14. " Performance comparison between monolithic, core-shell and totally porous particulate columns for application in greener and faster chromatography" Adel Ehab Ibrahim, Hisham Hashem, Magda Elhenawee, Hanaa Saleh, accepted for publication in *AOAC* (3-2018)
15. "Comparison between core-shell and totally porous particle stationary phases for fast and green LC determination of five hepatitis-C antiviral drugs" Adel Ehab Ibrahim, Hisham Hashem, Magda Elhenawee, Hanaa Saleh, *Journal of Separation Science* 41 (8) 1711–1896 (2018). DOI: 10.1002/jssc.201701263
16. "A rapid stability indicating LC-method for determination of Praziquantel in presence of its pharmacopoeial impurities" Hashem, Hisham, Ibrahim, Adel Ehab, Elhenawee, Magda, Accepted for publication in *Arabian Journal of Chemistry*, (2017) 10, S35–S41.
17. "Spectrophotometric Determination of Etilefrine HCl, Salbutamol Sulphate and Tiemonium Methyl Sulphate Using Surface Plasmon Resonance Band of Gold Nanoparticles.", Magda Mohamed Ayad, Hisham Ezzat Abdellatef, Mervat Mohamed Hosny, Naglaa Abdel-Sattar Kabil, , *Nano Biomed. Eng.*, 2018, 10(1).
18. "Isocratic HPLC method for simultaneous determination of tramadol hydrochloride and pantoprazole sodium synthetic mixture in pure forms and injection formulations.", .", Magda Mohamed Ayad, Mohamed M. Elbalkiny, Mervat Mohamed Hosny, Youstina M. Metias, *Journal of Pharmacy Research*, 2017, 11(5), 210-219.
19. " Determination of Telmisartan and Estradiol Valerate using Magnetic Iron Oxide Nanoparticles Modified with Cetyltrimethylammonium Bromide followed by Spectrophotometry and HPLC.", Magda M. Ayad, Hisham E. Abdellatef, Mervat M. Hosny, Yassmin A. Sharaf, *J. Chem. Pharm. Res.*, 9(10):1-11, 2017

20. "development of a highly sensitive high performance thin-layer chromatography method for the screening and simultaneous determination of sofosbuvir, daclatasvir and ledipasvir in their pure forms and their different pharmaceutical formulations.", Roshdy E. Saraya, Magda Elhenawee, Hanaa Saleh, Journal of Separation Science 1-8(2018).
21. Magda M. Ayad, Fathalla Belal, Mervet M. Hosney, Samah Abo El Abass, Nora Elsayed. Spectroscopic determination of succinylcholine in dosage forms using eosin Y. Luminescence. 2017;1–6.

b. Conference participation & attendance:

- Organization of The 4th scientific conference of Analytical chemistry department, 25/12/2017
- Attendance at The 7th scientific conference of pharmacy students, 10/4/2018
- Participation in The 7th scientific conference- faculty of pharmacy-Zagazig university, 15/4/2018

c. Training courses:

- Time Management and Meetings, **31/7-1/8/2018**
- International Publishing of Scientific Researches, **12-13/8/2018**
- Using Technology in Education, **14-15/8/2018**
- Thesis discussion and articles review: core skills and concepts, **19/3/2018**
- Photoshop and scientific images enhancement, **4/6/2018**
- Design a power point presentation for scientific researches, **11/7/2018**
- Use of global databases and management of scientific references and avoid plagiarism, **27-28/6/2018**

12.4. Pharmacognosy department:

a. Publications:

- 1- Perwez Alam, Hanan M. Al-Yousef, Nasir A. Siddiqui, Tawfeq A. Alhowiriny, Saleh I. Alqasoumi, Musarat Amina, Wafaa Hassan Badr Hassan, Sahar Abdelaziz, Rehab H. Abdalla. Anticancer activity and concurrent analysis of ursolic acid, β -sitosterol and lupeol in three different Hibiscus species (aerial parts) by validated HPTLC method, Saudi Pharmaceutical Journal (2018) in press.
- 2- Wafaa H. B. Hassan, Mohamed Salaheldin. A. Abdelkader, Entesar El Senosy, Samih I. Eldahmy, In vitro Propagation and Essential Oils Composition with

- Cytotoxicity of *Daucus capillifolius* Gilli (Apiaceae), International Journal of ChemTech Research, (2018),11 (07), 171-182.
- 3- Wafaa H. B. Hassan, Sahar Abdelaziz, Samih Eldahmy and Entesar El Senosy, Macro- And Micromorphological Study Of *Daucus Capillifolius* Gilli Cultivated In Egypt, European Journal Of Pharmaceutical And Medical Research, (2018), 5(5), 1-18.
 - 4- Nasir A. Siddiqui, Hanan M. Al-Yousef, Tawfeq A. Alhowiriny, Perwez Alam, Wafaa H.B. Hassan, Musarat Amina, Afzal Hussain, Sahar Abdelaziz, Rehab H. Abdallah. Concurrent analysis of bioactive triterpenes oleanolic acid and b-amyryn in antioxidant active fractions of *Hibiscus calyphyllus*, *Hibiscus deflersii* and *Hibiscus micranthus* grown in Saudi Arabia by applying validated HPTLC method, Saudi Pharmaceutical Journal (2018), 26, 266–273.
 - 5- Wafaa H. B. Hassan, Sahar Abdel Aziz and Hanan Al Youssef. Chemical Composition and Biological Activities of the Aqueous Fraction of *Parkinsonia aculeata* L. Growing in Saudi Arabia, Arabian Journal of chemistry, 2018 (in press).
 - 6- Al-Gendy A A, El-Sayed M A, Hamdan D I, Assem M. El-Shazly. (2017). Volatile Constituents, Antimicrobial and Cytotoxic Activities of *Citrus reticulata* Blanco Cultivar Murcott. International Journal of Pharmacognosy and Phytochemical Research 9(3); 376-386.
 - 7- May A. El-Sayed, Amal. A. Al-Gendy, Dalia. I. Hamdan, Assem M. El-Shazly (2017). Phytoconstituents, LC-ESI-MS profile, antioxidant and antimicrobial activities of *Citrus x limon* L.Burm. f. cultivar variegated pink lemon. Journal of Pharmaceutical Sciences and Research 9(4), 375-391.
 - 8- Mansour Sobeh, Mona F. Mahmoud, Mohamed A.O. Abdelfattah, Hesham A. El-Beshbishy, Assem M. El-Shazly, Michael Wink (2017). Hepatoprotective and hypoglycemic effects of a tannin rich extract from *Ximenia americana* var. *caffra* root. Phytomedicine 33: 36-42.
 - 9- Mansour Sobeh, Mona F. Mahmoud, Mohamed A.O. Abdelfattah, Hesham A. El-Beshbishy, Assem M. El-Shazly, Michael Wink (2017). *Albizia harveyi*: phytochemical profiling, antioxidant, antidiabetic and hepatoprotective activities of the bark extract. Medicinal Chemistry Research DOI: 10.1007/s00044-017-2005-8. Sobeh, M.; Mahmoud, M.F.; Hasan, R.A.; Cheng, H.; Assem M. El-Shazly; Wink, M. *Senna singueana*: Antioxidant, Hepatoprotective, Antiapoptotic

- Properties and Phytochemical Profiling of a Methanol Bark Extract. *Molecules* 2017, 22(9), 1502. doi:10.3390/molecules22091502
- 10- Sobeh, M.; Mahmoud, M.F.; Sabry, O.M.; Adel, R.; Dmirieh, M.; Assem M. El-Shazly; Wink, M. HPLC-PDA-MS/MS Characterization of Bioactive Secondary Metabolites from *Turraea fischeri* Bark Extract and Its Antioxidant and Hepatoprotective Activities In Vivo. *Molecules* 2017, 22, 2089. doi:10.3390/molecules22122089
 - 11- Mansour Sobeh , Mona F. Mahmoud, Mohamed A.O. Abdelfattah, Haroan Cheng, Assem M. El-Shazly, Michael Wink (2018). A proanthocyanidin-rich extract from *Cassia abbreviata* exhibits antioxidant and hepatoprotective activities in vivo. *Journal of Ethnopharmacology* 213, 38-47. doi.org/10.1016/j.jep.2017.11.007
 - 12- Sobeh M, Mahmoud MF, Petruk G, Rezq S, Ashour ML, Youssef FS, Assem M. El-Shazly, Monti DM, Abdel-Naim AB and Wink M (2018). *Syzygium aqueum*: A Polyphenol-Rich Leaf Extract Exhibits Antioxidant, Hepatoprotective, Pain-Killing and Anti-inflammatory Activities in Animal Models. *Front. Pharmacol.* 9:566. doi: 10.3389/fphar.2018.00566
 - 13- Mansour Sobeh, Mona F. Mahmoud, Rehab A. Hasan, Mohamed A. O. Abdelfattah, Omar M. Sabry, Mosad A. Ghareeb, Assem M. El-Shazly and Michael Wink. Tannin-rich extracts from *Lannea stuhlmannii* and *Lannea humilis* (Anacardiaceae) exhibit hepatoprotective activities in vivo via enhancement of the anti-apoptotic protein Bcl-2. *Scientific Reports* (2018) 8:9343 | DOI:10.1038/s41598-018-27452-8
 - 14- Dalia I. Hamdan, Fadia S. Youssef, Mohamed L. Ashour and Assem M. El-Shazly. Insights into the Ethnopharmacological Uses of Rutaceae: A Golden Source for many Pharmaceutical Preparations. In: Jose L. Martinez, Amner Munoz-Acevedo, Mahendra Rai (ed.) *Ethnobotany: Application of Medicinal Plants*. CRC Press, Boca Raton, FL, U.S.A. Chapter 15, pp. 242- 272 (2018).
 - 15- Wafaa H.B. Hassan & Rehab H. Abdallah,. UPLC-PDA-ESI-MS/MS Analysis, Isolation Of Chemical Constituents, Cytotoxic, Antioxidant, Antiviral And Antimicrobial Activities Of The Aerial Parts Of *Lycium Shawii* Roem. & Schult. *European Journal Of Pharmaceutical And Medical Research*, 2017, 4(9), 18-29.

- 16- Al-Youssef, H. M., & Wafaa H.B. Hassan (2017). Chemical constituents of *Carissa edulis* Vahl. *Arabian Journal of Chemistry*, 10 (1), 109-113.
- 17- Wafaa H.B. Hassan, Abdelkader, M. S. A., El Senosy, E., & Eldahmy, S. In vitro Propagation and Essential Oils Composition with Cytotoxicity of *Daucus capillifolius* Gilli (Apiaceae), *International Journal of ChemTech Research*. Vol.11 No.07, pp 171-182, 2018.
- 18- Wafaa H.B. Hassan., Abdelaziz, S, El Senosy, E., & Eldahmy, S. Macro- And Micromorphological Study Of *Daucus Capillifolius* Gilli Cultivated In Egypt. *European Journal Of Pharmaceutical And Medical Research*, 2018, 5(5), 1-18.
- 19- Siddiqui, N. A., Al-Yousef, H. M., Alhowiriny, T. A., Alam, P., Wafaa H.B. Hassan., Amina, M., Sahar Abdelaziz and Abdallah, R. H. (2018). Concurrent analysis of bioactive triterpenes oleanolic acid and β -amyrin in antioxidant active fractions of *Hibiscus calyphyllus*, *Hibiscus deflersii* and *Hibiscus micranthus* grown in Saudi Arabia by applying validated HPTLC method. *Saudi Pharmaceutical Journal*, 26(2), 266-273.
- 20- Wafaa H.B. Hassan., Abdelaziz, S., & Al Yousef, H. M. (2018). Chemical Composition and Biological Activities of the Aqueous Fraction of *Parkinsonia aculeata* L. Growing in Saudi Arabia. *Arabian Journal of Chemistry*. 1-11.
- 21- Alam, P., Al-Yousef, H. M., Siddiqui, N. A., Alhowiriny, T. A., Alqasoumi, S. I., Amina, M., Wafaa H.B. Hassan, Abdelaziz, S., and Abdalla, R. H. (2018). Anticancer activity and concurrent analysis of ursolic acid, β -sitosterol and lupeol in three different *Hibiscus* species (aerial parts) by validated HPTLC method. *Saudi Pharmaceutical Journal*, 26 (2018) 1060–1067.
- 22- Amal A Al-Gendy, Fatma A Moharram and Mohamed A Zarka, Chemical composition, antioxidant, cytotoxic and antimicrobial activities of *Pimenta racemosa* (Mill.) J.W. Moore flower essential oil. *Journal of Pharmacognosy and Phytochemistry* 2017; 6(2): 312-319.
- 23- Klee, S.; Mostafa, I.; Chen, S.; Dufresne, C.; Lehman, B. L.; Sinn, J. P.; Peter, K. A. and McNellis, T. W. (2018). An *Erwinia amylovora* yjeK mutant exhibits reduced virulence, increased chemical sensitivity, and numerous environmentally dependent proteomic alterations. *Molecular plant pathology*. doi:10.1111/mpp.12650.
- 24- Mostafa, I.; Yoo, M. J.; Zhu, N.; Geng, S.; Dufresne, C.; Abou-Hashem, M.; El-Domiaty, M. and Chen, S. (2017). Membrane proteomics of *Arabidopsis*

- glucosinolate mutants cyp79B2/B3 and myb28/29. *Frontiers in Plant Science*. doi.org/10.3389/fpls.2017.00534.
- 25- Elsalam HM, Zahra MH, Eldahmy SI, Saleh AH. Possible protective effect of *Vitis vinifera* seed extract and Silymarin on acetaminophen induced hepatotoxicity in rats. *Int. J. Adv. Res. Biol. Sci.* 2017;4 (12):280-91.
- 26- Fatma Abd-elkader Moharram,¹ Amal Amin Al-Gendy,² Siham Mostafa El-Shenawy, Bassant M. Ibrahim,³ and Mohamed A. Zarka. Phenolic profile, anti-inflammatory, antinociceptive, anti-ulcerogenic and hepatoprotective activities of *Pimenta racemosa* leaves. *BMC Complement Altern Med.* 2018; 18: 208.

b. Conference participation & attendance:

- Attendance of The 7th scientific conference- faculty of pharmacy-Zagazig university, 15/4/2018

c. Training courses:

- Design a power point presentation for scientific researches, 11/7/2018
- Reference management: Endnote and Mendely, 18/7/2018
- Credit hours, 22-24/7/2018
- Photoshop and scientific images enhancement, 14/8/2018

12.5. Pharmacology & Toxicology department:

a. Publications:

- 1- Marwa Sabaa, Hassan M ELFayoumi, Shimaa Elshazly, Mahmoud Youns, Waleed Barakat, Anticancer activity of salicin and fenofibrate, *NaunynSchmiedeberg's Arch Pharmacol.* 2017.
- 2- Soderstrom K, Soliman E, Van Dross R, Cannabinoids Modulate Neuronal Activity and Cancer by CB1 and CB2 Receptor-Independent Mechanisms, *Front Pharmacol.* 2017.
- 3- Hany M. El-Bassossy, Zuhier Awan, Mahmoud M. El-Mas, Perinatal ciclosporin A exposure elicits sex-related cardiac dysfunction and inflammation in the rat progeny, *Toxicology Letters*, 2017.
- 4- Abd El Motteleb, D.M., Ibrahim, I.A.A.E.-H., Elshazly, S.M, Sildenafil protects against bile duct ligation induced hepatic fibrosis in rats: Potential role for silent information regulator 1 (SIRT1), • *Toxicology and Applied Pharmacology*, 2017.

- 5- Hany M. El-Bassossy, Nora Desoky, Abdulrahman M Alahdal, Ahmed Fahmy, Normal vascular reactivity is restored by apigenin in diabetic rats, International journal pharm pharm sci, 2017.
- 6- Sameh Saber, Amr A. A. Mahmoud¹, Noha S. Helal, Eman El-ahwany and Rasha H. Abdelghany¹, Losartan, an angiotensin-II type 1 receptor blocker, attenuates CCl₄-induced liver fibrosis with a positive impact on survival in mice, World Journal of Pharmaceutical Sciences, 2017.
- 7- Hany M. El-Bassossy, Wafaa S. Al-Thubiani, Ahmed A. Elberry, Mohammad I. Mujallid, Salah A. Ghareib, Ahmad S. Azhar, Zainy M. Banjar, Malcolm L. Watson, Zingerone alleviates the delayed ventricular repolarization and AV conduction in diabetes: Effect on cardiac fibrosis and inflammation, PloS one, 2017.
- 8- Hany M. El-Bassossy, Basma G. Eida, Cyclosporine A exhibits gender-specific nephrotoxicity in rats: Effect on renal tissue inflammation, Biochemical and Biophysical Research Communications, 2018.
- 9- Mohamed A. Fouda, Shaimaa S. El-Sayed and Abdel A. Abdel-Rahman, Restoration of Rostral Ventrolateral Medulla Cystathionine- γ Lyase Activity Underlies Moxonidine-Evoked Neuroprotection and Sympathoinhibition in Diabetic Rats, Journal of Pharmacology and Experimental Therapeutics, 2018.
- 10- Anas Boulem den, MD, FRCS, Gemma L. Malin, MBChB, MRCOG, Suzanne V.F. Wallace, BMBCh, MRCOG, Amr Mahmoud, MD, FCARCSI, William H.T. Smith, PhD, MRCP, Adam A. Szafrank, MD, FRCS, Mechanical Mitral Valve Replacement during the 2nd Trimester of Pregnancy, Tex Heart Inst J., 2018.
- 11- Sameh Saber, Amr A.A. Mahmoud, Noha S. Helal, Eman El-Ahwany, Rasha H. Abdelghany, Renin-angiotensin system inhibition ameliorates CCl₄-induced liver fibrosis in mice through the inactivation of nuclear transcription factor kappa B, Canadian Journal of Physiology and Pharmacology, 2018.
- 12- Hany M. El-Bassossy, Mona F Mahmoud, Basma G Eid, The vasodilatory effect of allopurinol mediates its antihypertensive effect: Effects on calcium movement and cardiac hemodynamics, Biomedicine & Pharmacotherapy, 2018.
- 13- Noura A. Hassan, Hany M. El-Bassossy, Ahmed Fahmy, Mona F. Mahmoud, Limonin alleviates macro- and micro-vascular complications of metabolic syndrome in rats: A comparative study with amlodipine, Phytomedicine, 2018.
- 14- Nesreen M.I.M. Elkomy, Islam A.A.E.-H. Ibrahim, Shaimaa M. Elshazly, Hassan M. El-Fayoumi, Ameliorative effects of clonidine on ethanol induced kidney injury

in rats : potential role for imidazoline1receptor, European Journal of Pharmacology, 2018.

15- Hany M.El Bassossy, Thikryat Neamatallaha, Khadijah S. Balamash, cAmaniT. Abushareb, Malcolm L.Watson, Arginase overexpression and NADPH oxidase stimulation underlie impaired vasodilation induced by advanced glycation end products, Biochemical and Biophysical Research Communications, 2018.

16- Mansour Sobeh, Mona F. Mahmoud,GannaPetruk, Samar Rezq, Mohamed L. Ashour,Fadia S. Youssef,Assem M. El-Shazly, Daria M. Monti, Ashraf B. Abdel-Naim, and Michael Wink, Syzygiumaqueum: A Polyphenol- Rich Leaf Extract Exhibits Antioxidant, Hepatoprotective, Pain-Killing and Anti-inflammatory Activities in Animal Models, Front Pharmacol., 2018.

17- Ohoud Y. Alshehri, Fahad A. Alabbasi, Islam F. Mahmoud, Alaa T. Abu-Sharib, Hany M. El-Bassossy, Hossam A. Abdallah and Ahmed M. Al-Abd, Epicatechin alleviates DOX-induced cardiovascular toxicity and improves its cytotoxic profile against breast cancer cells, Experimental and Molecular Therapeutics, 2018.

18- Elshazly, S.M., Abd El Motteleb, D.M., Ibrahim, I.A.A.E.-H., Hesperidin protects against stress induced gastric ulcer through regulation of peroxisome proliferator activator receptor gamma in diabetic rats, Chemico-Biological Interactions, 2018.

19- Sameh Saber ,Amr A.A.Mahmoud, Reham Goda, Noha S.Helal ,Eman El-ahwany, Rasha H. Abdelghany, Perindopril, fosinopril and losartan inhibited the progression of diethylnitrosamine-induced hepatocellular carcinoma in mice via the inactivation of nuclear transcription factor kappa-B, Toxicology Letters, 2018.

b. Conference participation & attendance:

- Attendance of The 7th scientific conference- faculty of pharmacy-Zagazig university, 15/4/2018

c. Training courses:

- How to launch a research project, 29/11/2017.
- How to run a western blot (practical workshop), 28-31/1/2018

12.6. Biochemistry department:

a. Publications:

1. Little R, Zi M, Hammad SK, Nguyen L, Njegic A, Kurusamy S, Prehar S, Armesilla AL, Neyses L, Austin C, Cartwright EJ. (2017) Reduced expression of

PMCA1 is associated with increased blood pressure with age which is preceded by remodelling of resistance arteries. *Aging cell* 16(5):1104-1113

2. Elseweidy MM (2017) Brief Review on the Causes, Diagnosis and Therapeutic Treatment of Gastritis Disease. *Altern Integr Med* 6:231.

3. Elseweidy MM, Amin RS, Atteia HH, Ali MA. (2017) Vitamin D3 intake as regulator of insulin degrading enzyme and insulin receptor phosphorylation in diabetic rats. *Biomedicine and pharmacotherapy* 85:155-159

4. Mohammed M. El-Seweidy, Sousou I. Ali, Sahar E. Elswefy, Abdelmoneim A. Ali, Mai M. Mashhour (2017) Omega3 Fatty Acids Intake Versus Diclofenac in Osteoarthritis Induced in Experimental rats. *Functional foods in health and disease* 7(4): 291-302

5. Elseweidy MM, Askar ME, Elswefy SE, Shawky M (2017) Vanillin as a new modulator candidate for renal injury induced by cisplatin in experimental rats. *Cytokine* 99:260-265

6. Mohamed M.Elseweidy, ,Abdel-Moniem A.Ali ,Nabila ZeinElabidine ,Nada M.Mursey (2017) Effect of Zinc gluconate , sage oil on inflammatory patterns and Hyperglycemia in Zinc deficient Diabetic rats. *Biomedicine and Pharmacotherapy* 95 : 317-32

7. Reichetzeder C, von Websky K, Tsuprykov O, Mohagheghi Samarin A, Falke L, Dwi Putra S, Hasan AA, Antonenko V, Curato C, Rippman J, Klein T and Hoher B: Head to head comparison of structurally unrelated DPP-4 inhibitors in the setting of renal ischemia reperfusion injury. *British Journal of Pharmacology* 2017, 174: 2273-2286.

8. Lu YP, Hasan AA, Zeng S, Hoher B: Plasma ET-1 concentrations are elevated in pregnant women with hypertension - meta-analysis of clinical studies. *Kidney and Blood Pressure Research* 2017, 42:654-663.

9. Hasan AA and Hoher B: Role of soluble and membrane-bound dipeptidylpeptidase-4 (DPP-4) in diabetic nephropathy. *Journal of Molecular Endocrinology* 2017, 59:R1-R10. 7- Xu M, Lu YP, Hasan AA, Hoher B: Plasma ET-1 concentrations are elevated in patients with hypertension - meta-analysis of clinical studies. *Kidney and Blood Pressure Research* 2017, 42:304-313.

10. Mohamed TM, Stone NR, Berry EC, Radzinsky E, Huang Y, Pratt K, Ang YS, Yu P, Wang H, Tang S, Magnitsky S, Ding S, Ivey KN, Srivastava D. (2017) .

Chemical Enhancement of In Vitro and In Vivo Direct Cardiac Reprogramming. *Circulation* 135(10):978-995

11. Hegab Z, Mohamed TMA, Stafford N, Mamas M, Cartwright EJ, Oceandy D. (2017) Advanced glycation end products reduce the calcium transient in cardiomyocytes by increasing production of reactive oxygen species and nitric oxide. *FEBS Open Bio.* 7(11):1672-1685.

12. Mohamed Mahmoud Elseweidy, Rawia Sarhan Amin, Hebatallah Hussein Attia, Maha Abdo Aly (2018) Nigella sativa Oil and Chromium Picolinate Ameliorate Fructose-Induced Hyperinsulinemia by Enhancing Insulin Signaling and Suppressing Insulin-Degrading Enzyme in Male Rats. *Biological Trace Element Research* 184(1) : 119-126

13. Mohamed Elseweidy, Mervat Asker , Sahar Elsewify and Mohamed shawki Zaghloul (2018) Nephrotoxicity induced by cisplatin intake in Exp rats and Therapeutic approach of using mesenchymal stem cells and Spirinolactone. *Applied Biochemistry and Biotechnology* 184 : 1390-1403

14. Mohamed Elseweidy , Hoda Elsayed Mohamed , Hebatollah Husainy , Rania Elrashidy and Gehad Mohamed (2018) Inhibition of Aortic calcification by Policosanol in Dyslipidemic rabbits is enhanced by pentoxifylline: potential role of PCSK9 .*Cardiovascular pharmacology and Therapeutics* (under press)

15. Mohamed Elseweidy , Rawia sarhan , Hebatollah Husainy and Reham Rafaat (2018) A new insight on a combination of policosanol and 10-DHGD phytochemicals as inhibitors of platelet activation Biomarkers and atherogenicity risk in Dyslipidemic rabbits : Role of CETP and PCSK inhibition. *Applied Biochemistry and Biotechnology*

16. Mohamed Elseweidy , Hoda Elsayed Mohamed , Hebatollah Husainy , Rania Elrashidy and Gehad Mohamed (2018) Potential Therapeutic roles of 10-DHGD and or/ Pentoxifyllin against Ca Deposition in aortic tissues of High Dietary Cholesterol fed Rabbits. *Molecular and Cellular Biochemistry* (under press)

17. Glosse P, Feger M, Mutig K, Chen H, Hirche F, Hasan AA, Gaballa MMS, Hoher B, Lang F, Föller M: AMP-activated kinase is a regulator of fibroblast growth factor 23 production. *Kidney International* 2018, 94:491-501.

18. Li J, Lu YP, Tsuprykov O, Hasan AA, Reichetzeder C, Tian M, Zhang XL, Zhang Q, Sun GY, Guo J, Gaballa MMS, Peng XN, Lin G, Hoher B: Folate treatment of pregnant rat dams abolishes metabolic effects in female offspring

induced by a paternal pre-conception unhealthy diet. *Diabetologia* 2018, 61:1862-1876.

19. von Websky K, Hasan AA, Reichetzeder C, Tsuprykov O, Hoher B: Impact of vitamin D on pregnancy-related disorders and on offspring outcome. *Journal of Steroid Biochemistry and Molecular Biology* 2018, 180:51-64.

20. Mohamed HE, Asker ME, Younis NN, Shaheen MA, Eissa RG (2018) Modulation of brain insulin signaling in Alzheimer's disease: New insight on the protective role of green coffee bean extract. *Nutritional neuroscience* 1:1-10

21. Mohamed TMA, Ang YS, Radzinsky E, Zhou P, Huang Y, Elfenbein A, Foley A, Magnitsky S, Srivastava D. (2018) Regulation of Cell Cycle to Stimulate Adult Cardiomyocyte Proliferation and Cardiac Regeneration. *173(1):104-116.e12*

b. Conference participation & attendance:

- Attendance of The 7th scientific conference- faculty of pharmacy-Zagazig university, 15/4/2018
- Participation in The 9th annual meeting of the German Society of Nephrology (9. Jahrestagung der Deutschen Gesellschaft für Nephrologie), Mannheim, Germany, 14-17 /9/2017

12.7. Microbiology & Immunology department:

a. Publications:

1. Z. Shahina, A. M. El-Ganiny, J. Minion, M. Whiteway, T. Sultana, T. E.S. Dahms. 2018. Cinnamomumzeylanicum bark essential oil induces cell wall remodelling and spindle defects in *Candida albicans*. *Fungal Biology and Biotechnology*. 9;5:3. doi: 10.1186/s40694-018-0046-5. eCollection 2018.

2. Kadry, A.A., El-Ganiny, A.M., Mosbah, R. A., Kaminskyj, S. G.W. 2018. Deletion of *Aspergillus nidulans* GDP-mannose transporters affects hyphal morphometry, cell wall architecture, spore surface character, cell adhesion, and biofilm formation. *Medical Mycology*. 56(5): 621-630. <https://doi.org/10.1093/mmy/myx082>.

3. Kadry, A.A., El-Ganiny A. M., El-Baz, A.M. 2018. Comparison of methods used in identification of *Candida albicans*. *Research Journal of Pharmacy and Technology*. 11(3): 1164-1168. doi: 10.5958/0974-360X.2018.00217.2

4. El-Ganiny A. M., Shaker, G. H., Aboelazm, A. A., El-Dash. H. A. 2017. Prevention of bacterial biofilm formation on soft contact lenses using natural

compounds. *Journal of Ophthalmic Inflammation and Infection*. 7(1):11 DOI 10.1186/s12348-017-0129-0.

5. Kadry, A.A., Serry, F.M., El-Ganiny, A.M., El-Baz, A.M. 2017. Integron occurrence is linked to reduced biocide susceptibility in multidrug resistant *Pseudomonas aeruginosa*. *British Journal of biomedical sciences* 74(2): 78-84. DOI:10.1080/09674845.2017.1278884

6. M. M. Faisal, S. A. Sabry, M. A. Mahdy, M. M. Waly, A. M. El-Ganiny. 2017. Formulation and Evaluation of Fluconazole Muco-adhesive Gel for vaginal fungal infection. *International Journal of Trend in Research and Development*, 4(1): 75-80.

7. Farouk M., El-Ganiny A. M., Abdelmonem M., Serry F. 2017. Evaluation of microbial quality of herbal tea pharmaceutical products found in the Egyptian market. *Zagazig Journal of Pharmaceutical sciences* 26(1): 32-38.

8. Serry F., Abdullatif H. K., El-Ganiny A. M., Yehia F. A. 2017. Prevalence and antimicrobial susceptibility of bacterial pathogens isolated from ventilator associated pneumonia (VAP) patients. *Zagazig Journal of Pharmaceutical sciences* 26(1): 39-47.

9. Hemat K. Abdullatif, Amira M. El-Ganiny, Afaf S. El-Adl. 2017. Evaluation of the potency of some antibiotic formulations in the Egyptian market. *Zag J Pharm Sci*. 26(1): 48-54.

10. Mona A. Al-sayed, Ashraf A. Kadry, Amira M. El-Ganiny, Nour M. AlKashef. 2018. Extended spectrum β -Lactamase production and the Coexisted antibiotic resistance among Uropathogenic *Escherichia coli* isolates. *Zag J Pharm Sci*. 27 (1): 64-72.

11. Ashraf A. Kadry, Hisham A. Abbas, Marwa M. Ezz. 2018. Phenotypic and genotypic characterization of *Pseudomonas aeruginosa* siderophores. *Zag J Pharm Sci*. 27 (1): 22-30

12. Hisham A. Abbas, Ghada H. Shaker, Wael A.H. Hegazy, Amr A. Baiomy. 2018. Prevalence of multi-drug resistant *Staphylococci* isolated from surgical site infections. *Zag J Pharm Sci*. 27 (1): 31-38.

13. Fathy M. Serry, Hemmat K. Abdel-Latif, Salwa E. Gomaa, Hisham A. Abbas. 2018. Antimicrobial resistance of clinical *Proteus mirabilis* isolated from different sources. *Zag J Pharm Sci*. 27 (1): 57-63

14. Hisham A Abbas, Ashraf A Kadry, Ghada H Shaker, Reham M Goda. (2017); Resistance of *Escherichia coli* and *Klebsiella pneumoniae* isolated from different

sources to β -lactam antibiotics. Research Journal of Pharmacy and Technology 10(2): 589-591.

15. Wael AH Hegazy, Hisham A Abbas. (2017); Evaluation of the role of SsaV 'Salmonella pathogenicity island-2 dependent type III secretion system components on the virulence behavior of Salmonella enterica serovar Typhimurium. African Journal of Microbiology Research 16(14): 718-725.

16. Hisham A Abbas, Wael AH Hegazy. (2017); Targeting the virulence factors of Serratiamarcescens by ambroxol. Roumanian Archives of Microbiology and Immunology 76: In press.

17. Hisham A Abbas, Ahmed M Elsherbini, Moutaz A Shaldam. (2017); Repurposing metformin as a quorum sensing inhibitor in Pseudomonas aeruginosa. African Health Sciences 17(3): 808-819.

18. Hisham A Abbas, Ahmed M Elsherbini. (2018); Silencing the nosocomial pathogen Serratiamarcescens by glyceryltrinitrate African Health Sciences 18(1):1-10.

19. Hisham A Abbas, Amira M El-Ganiny, Hend A Kamel. (2018); Phenotypic and genotypic detection of antibiotic resistance of Pseudomonas aeruginosa isolated from urinary tract infections. African Health Sciences 18(1):11-21.

20. Hisham A Abbas, Mona A El-Saysed, Amira M Ganiny, Azza Abdel Fattah (2018); Antimicrobial resistance patterns of Proteus mirabilis isolates from urinary tract, burn wound and diabetic foot infections. Research Journal of Pharmacy and Technology 11(1): 249-252.

21. Sarvan, Sabina ; Charhi, François ; Askoura, Momen ; Butcher, James ; Brunzelle, Joseph S. ; Stintzi, Alain ; Couture, Jean François. / Functional insights into the interplay between DNA interaction and metal coordination in ferric uptake regulators. Scientific Reports. 2018 ; Vol. 8, No. 1.

b. Conference participation & attendance:

- Attendance of The 7th scientific conference- faculty of pharmacy-Zagazig university, 15/4/2018

12.8. Pharmaceutics department:

a. Publications:

1. Formulation of Chlorpheniramine maleate in span 60/ tween20 based organogels for transdermal delivery. *Journal of Innovations in Pharmaceutical and Biological Sciences*. 4 (1). 49-57. Gehan Fathy Balata, Hanan Abd El-Moneom Shamardl (2017).
2. Formulation and evaluation of fast disintegrating film of meloxicam. 6(1). Fawziya W. Alhalabi¹, Gehan F. Balata, Nahla S. Barakat, Alaa F. Alsulami, Athba K. Al-Solbi, Bashair M Shoieb, Haifa A. Alotaibi, Sarah A. Al-Ansari (2017).
3. Resveratrol β -Cyclodextrin/Lecithin Complexes: A New Approach for Treatment of Hepatic Dysfunction Research and Reviews: *Journal of Pharmacy and Pharmaceutical Sciences*. 6 (1). 1-15. Gehan F Balata, Naser A ElSawy, Mohamad AS Abourehab, Nedaa Ali Karami, Abdualrhmain Bahowirth, Walaa Al Nemari, Mashael Al Daajani and Ferdous Mohammed Turkistani (2017).
4. Intratumoral Visualization of Oxaliplatin within a Liposomal Formulation Using X-ray Fluorescence Spectrometry. *Molecular Pharmaceutics*. 15 (2). Hidenori Ando, Amr S. Abu Lila, Masao Tanaka, Yusuke Doi, Yasuko Terada, Naoto Yagi, Taro Shimizu, Keiichiro Okuhira, Yu Ishima, and Tatsuhiko Ishida (2017).
5. Reactivity of IgM antibodies elicited by PEGylated liposomes or PEGylated lipoplexes against auto and foreign antigens. *Journal of Controlled Release*. 270. Hidenori Andoa, , Taro Shimizua, Keiichiro Okuhiraa, , Tatsuhiko Ishida (2017).
6. Co-administration of liposomal l-OHP and PEGylated TS shRNA-lipoplex: A novel approach to enhance anti-tumor efficacy and reduce the immunogenic response to RNAi molecules. *Journal of Controlled Release*. 255. Eman Alaaeldina, Amr S. Abu Lila, Hidenori Ando, Masakazu Fukushima, Cheng-Long Huange, Hiromi Wada. Hatem A. Sarhan, Khaled A. Khaled, Tatsuhiko Ishida (2017).
7. Ganglioside inserted into PEGylated liposome attenuates anti-PEG immunity. *Journal of Controlled Release*. 250. Yu Mima, Amr S. Abu Lila, Taro Shimizu, Masami Ukawa, Hidenori Ando, Yasuko Kurata, Tatsuhiko Ishid (2017).
8. Liposomal Delivery Systems: Design Optimization and Current Applications. *Biological & Pharmaceutical Bulletin*. 40 (1).1-10. Amr Selim Abu Lila, Tatsuhiko Ishida (2017).
9. A qualitative study to improve the student learning experience. *Quality Assurance in Education*. 25 (4). Raid A. Jastania, Gehan F. Balata, Mohamed I.S. Abd El-Hady, Ahmad Gouda, Mohamad Abd El-Wahab, Abeer Temraz, Nashwa M. Ibrahim, Eman Beshr, Abeer Y. Mahdi, Rabab Mousa, Batool F. Tag, Hadeel Hisham, Ibtehal El-Sofiani (2017).

10. Preparation and characterization of intravaginal vardenafil suppositories targeting a complementary treatment to boost in vitro fertilization process. *European Journal of Pharmaceutical Sciences*. 111. Eman Gomaa, Amr S. Abu Lila, Azza A. Hasan, Fakhr-eldin S. Ghazy (2017).
11. Mucoadhesive Film Embedded with Acyclovir Loaded Biopolymeric Nanoparticles: In vitro Studies. *Journal of Young Pharmacists*. 9 (1). 100-105. Anroop Balachandran Nair, Abbas Ahmed Al-ghannam, Bandar Essa Al-Dhubiab, Azza Ali Hasan (2017).
12. Leachable diphenylguanidine from rubber closures used in pre-filled syringes: A case study to understand solid and solution interactions with oxytocin *International journal of pharmaceutics*. 532 (1). 491-501. Ahmed S Zidan, Sabir M Aqueel, Alaadin Alayoubi, Adil Mohammad, Jinhui Zhang, Ziyaur Rahman, Patrick Faustino, Richard T Lostritto, Muhammad Ashraf (2017).
13. Effect of Isopropyl Myristate on Transdermal Permeation of Testosterone From Carbopol Gel. *Journal of pharmaceutical sciences*. 106 (7). 1805-1813. Ahmed S Zidan, Nahid Kamal, Alaadin Alayoubi, Mark Seggel, Sarah Ibrahim, Ziyaur Rahman, Celia N Cruz, Muhammad Ashraf (2017).
14. Matrix-type transdermal films to enhance simvastatin ex vivo skin permeability. *Pharmaceutical development and technology*. 22 (4). 492-499. Khalid M El-Say, Osama AA Ahmed, Bader M Aljaeid, Ahmed S Zidan (2017).
15. Taste-masked tacrolimus-phospholipid nanodispersions: dissolution enhancement, taste masking and reduced gastric complications. *Pharmaceutical development and technology*. 22 (2). 173-183. Ahmed S Zidan (2017).
16. Effects of excipients and curing process on the abuse deterrent properties of directly compressed tablets. *International journal of pharmaceutics*. 517 (1-2). 303-311. Ziyaur Rahman, Ahmed S Zidan, Maxwell Korang-Yeboah, Yang Yang, Akhtar Siddiqui, Daaa Shakleya, Mansoor A Khan, Celia Cruz, Muhammad Ashraf (2017).
17. Pharmaceutical characterization of novel tenofovir liposomal formulations for enhanced oral drug delivery: in vitro pharmaceutics and Caco-2 permeability investigations. *Clinical pharmacology: advances and applications*. 9. 1-29 Crystal B Spinks, Ahmed S Zidan, Mansoor A Khan, Muhammad J Habib, Patrick J Faustino (2017).
18. Enhancing miR-132 expression by aryl hydrocarbon receptor attenuates tumorigenesis associated with chronic colitis. *International immunopharmacology*. 52.

- 342-351. Abdullah M Alzahrani, Hamza Hanieh, Hairul-islam Mohamed Ibrahim, Omar Mohafez, Tamer Shehata, Mohammad Bani Ismail, Manal Alfwuaires (2017).
19. Formulation, In Vitro Optimization and In Vivo Evaluation of Sustained Release Transdermal Patches of Venlafaxine Hydrochloride. *LATIN AMERICAN JOURNAL OF PHARMACY*. 36(8). 1664-1674. Abdulwahhab A Khedr, Tamer M Shehata, Hanaa A El-Ghamry (2017).
20. Buspirone Hydrochloride Loaded Niosomes: Formulation, Effect of Some Formulation Parameters and Characterization. *International Journal of Trend in Research and Development*; 2 (1). Dina M. Ibrahim, Marwa H. Abdallah, Hanaa A. Elghamry (2017).
21. Optimization of methotrexate loaded niosomes by Box–Behnken design: an understanding of solvent effect and formulation variability. *Drug Development and Industrial Pharmacy*. Ahmed S Zidan, Mahmoud Mokhtar Ibrahim, Nagia A El Megrab (2017).
22. Hydrogels and Their Combination with Liposomes, Niosomes, or Transfersomes for Dermal and Transdermal Drug Delivery. *Liposome Book*. chapter 6. 155-186. InTech. Mahmoud Mokhtar Ibrahim, Anroop B Nair, Bandar E Aldhubiab, and Tamer M Shehata (2017).
23. Technology overview and drug delivery application of proniosome. *Pharm Dev and Technol*. 22(3). 302–311. Mahmoud Mokhtar Ibrahim Mohammad Zaki Ahmad, Abdul Aleem Mohammed (2017).
24. Formulation and Evaluation of Fluconazole Mucoadhesive Gel for Vaginal Fungal Infection. *International Journal of Trend in Research and Development*. 4 (1). 2394-9333. Mennatullah M. Faisal, Shereen A. Sabry, Mahmoud A. Mahdy, Mohammed M. Waly and Amira M. El-Ganiny (2017).
25. Formulation and Evaluation of Sustained Release Floating Microspheres. *International Journal of Trend in Research and Development*. 4 (3). 2394-9333. Rabab A. Hussein, Amr S. Abu Lila, Marwa H. Abdallah, Hanaa A. Elghamry (2017).
26. Upgrading of dissolution and anti-hypertensive effect of Carvedilol via two combined approaches: self-emulsification and liquisolid techniques. *Drug Development and Industrial Pharmacy*; 44 (6): 873-885. Ibrahim T.M., Abdallah M.H., El-Megrab N.A. and El-Nahas H.M. (2018).

27. Self-emulsifying drug delivery formulations. Zagazig Journal of Pharmaceutical Sciences; 27 (1): 1-20. Ibrahim T.M., Abdallah M.H., El-Megrab N.A. and El-Nahas H.M. (2018).
28. Tramadol HCl encapsulated niosomes for extended analgesic effect following oral administration. Journal of Drug Delivery Science and Technology. Mahmoud M Ibrahim, Tamer M Shehata (2018).
29. Pharmaceutical Formulation and Biochemical Evaluation of Atorvastatin Transdermal Patches. Tamer M Shehata, Omar MM Mohafez, Hamza N Hanieh (2018).
30. Design, in vitro/in vivo evaluation of meclizine HCl-loaded floating microspheres targeting pregnancy-related nausea and vomiting. Journal of Drug Delivery Science and Technology. Rabab A Hussein, Amr S Abu Lila, Marwa H Abdallah, Eslam E Hamed, Hanaa A El-ghamry (2018).
31. Fast disintegrating tablet of Valsartan for the treatment of pediatric hypertension: In vitro and in vivo evaluation. Journal of Drug Delivery Science and Technology. 43. 194-200. Rabab A Hussein, Amr S Abu Lila, Marwa H Abdallah, Hanaa A El-ghamry (2018).
32. Stable gelatin-based phantom materials with tunable x-ray attenuation properties and 3D printability for x-ray imaging. Physics in Medicine & Biology. 63(9). Eshan Dahal, Andreu Badal, Ahmed Zidan, Alaadin Alayoubi, Tomoe Hagio, Stephen Glick, Aldo Badano, Bahaa Ghammraoui (2018).
33. Propolis emulgel: a natural remedy for burn and wound. Drug Development and Industrial Pharmacy. Gehan Fathy Balata, Hanan Abd El-Moneom Shamardl, Hanan Mohamed Abd Elmoneim, Afnan Abdullah Hakami & Maeen Abdulaziz Almodhwahi (2018).
34. Formulation and evaluation of diazepam-loaded intravaginal alginate beads: An investigation study for the treatment of pelvic floor dysfunction. Asian Journal of Pharmaceutical and Clinical Research. 11(7). 97-104. Shereen Ahmed Sabry (2018).
35. Sodium cromoglycate mucoadhesive buccal patches: design, fabrication, in vitro and in vivo characterization. International Journal of Pharmacy and Pharmaceutical Sciences. 10 (2). 76-82. Shereen Ahmed Sabry (2018).
36. Formulation, In-Vitro and In-Vivo characterization of Vardenafil Loaded Floating In-Situ Gel: An investigational study For Enhancement of Oral

Bioavailability. International Journal of PharmTech Research. 7(6). 157-170. Shereen Ahmed Sabry (2018).

37. Doxorubicin Expands in Vivo Secretion of Circulating Exosome in Mice. Biological & Pharmaceutical Bulletin. 41(7).1078-1083. Sherif E. Emam, Hidenori Ando, Amr Selim Abu Lila, Shinya Kobayashi, Taro Shimizu, Keiichiro Okuhira, Yu Ishima, Tatsuhiro Ishida (2018).

38. Immune Response to PEGylated Nanomedicines: Impact of IgM Response. 371-388. In book: Radionanomedicine. Amr S. Abu Lila, Tatsuhiro Ishida (2018).

39. A hydroxyl PEG version of PEGylated liposomes and its impact on anti-PEG IgM induction and on the accelerated clearance of PEGylated liposomes. European Journal of Pharmaceutics and Biopharmaceutics. 127. Taro Shimizu, Amr S. Abu Lila, Risako Fujita, Mizuki Awata, Munehira Kawanishi, Yosuke Hashimoto, Keiichiro Okuhira, Yu Ishima, Tatsuhiro Ishida (2018).

40. PEGylation and anti-PEG antibodies. In book: Engineering of Biomaterials for Drug Delivery Systems, pp.51-68. Amr S. Abu Lila, Taro Shimizu, Tatsuhiro Ishida (2018).

41. Injectable PLGA Adefovir microspheres; the way for long term therapy of chronic hepatitis-B. European Journal of Pharmaceutical Sciences. 118. Margrit M. Ayoub, Neveen G. Elantouny, Hanan M .El-Nahas, Fakhr El-Din S. Ghazy (2018).

42. Gihan F. Balata, Mohamed I.S. Abdelhady, Ghada M. Mahmoud, Moustafa A. Matar, Amani N. Abd El-Latif. Formulation of Saudi Propolis into Biodegradable Chitosan Chips for Vital Pulpotomy. Current Drug Delivery, 2017, 14

43. Mohammed A. S. Abourehab^{1,2}, Osama A. A. Ahmed^{2,3}, Gehan F. Balata⁴, Walid H. Almalki⁵. Self-assembled Polymeric Nanomicelles to Improve Dapoxetine Delivery Across the Blood–Brain Barrier. International Journal of Nanomedicine 2018;13 1–9

44. Gehan F. Balata. Formulation and Evaluation of Gliclazide in Vegetable Oil-Based Self Emulsifying Delivery System. Journal of Applied Pharmaceutical Science Vol. 8(09), pp 023-033, September, 2018

45. Margrit M. Ayoub, Neveen G. Elantouny, Hanan M. El-Nahas, Fakhr El-Din S. Ghazy, Injectable PLGA Adefovir microspheres; the way for long term therapy of chronic hepatitis-B. European Journal of Pharmaceutical Science, 2018

b. Conference participation & attendance

- Attendance of the First Quality in education & Entrepreneurial business, Menofia University, September, 2018
- Participation by 2 posters and one talk in 7th Scientific Conference of Faculty of Pharmacy, Zagazig University, 15-4-2018
- Attendance of the first international conference in clinical pharmacy, BUE, January 2018.

c. Training courses

- Quality management in healthcare
- Communication skills in teaching
- Exam systems and students evaluation
- Thinking skills in creativity
- Management and organization of scientific conferences
- Avoiding of plagiarism
- Use the process databases
- Preparation of teaching assistant
- Statistical analysis (SPSS)

12.9. Pharmacy practice department:

a. Training courses:

- Credit hours
- Organization of scientific conferences
- Effective academic writing by nature research academies, National training institute, Cairo
- Clinical pharmacogenomics research internship, Aquilante lab, Skaggs school of pharmacy and pharmaceutical sciences, university of Colorado, Denver, Anschutz medical campus, USA
- Quality in research: from research topic identification to publishing, National training institute, Cairo
- Use of global databases and management of scientific references and avoid plagiarism
- Statistical analysis (SPSS)
- Critical appraisal
- Scientific Writing and Reference Management by " Endnote"

- Effective presentation skills
- International Publishing of Scientific Researches
- MI-CIT, Online (E-learning) by MKCL

b. *Conference participation & attendance:*

- Participation by a poster presentation in the seventh scientific conference in faculty of pharmacy, 15/4/2018

c. *Community service:*

- Preparation of students training in Zagazig University Hospitals through Hospital Pharmacy Course
- Participation in the awareness campaigns organized by Zagazig University through the 15th community festival “ Our goal is building humans”
- Organization of a visit for Malaysian students to Children Cancer Hospital 57357
- Supervision of Faculty of Pharmacy website

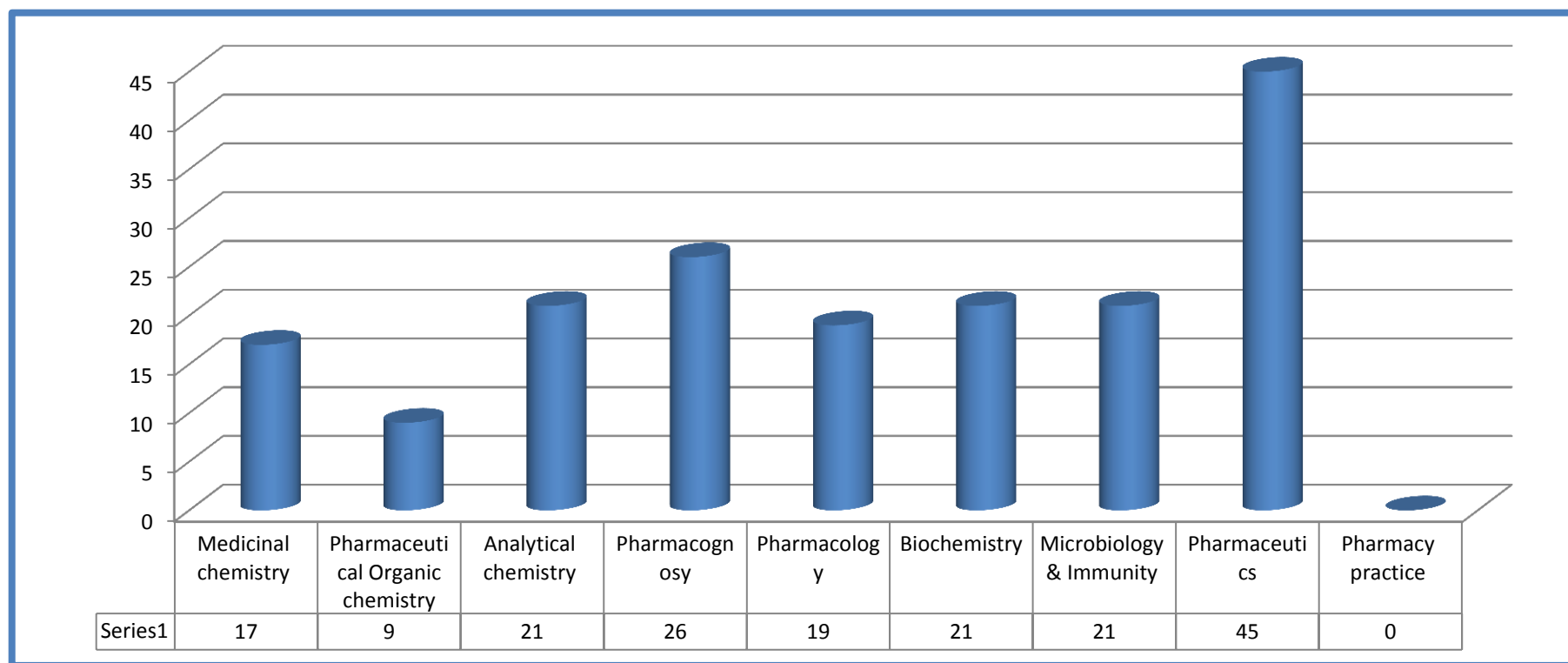


Figure 12: Distribution of publication activity between different departments in Faculty of Pharmacy.

13. Achievements of the different vice deanships:

13.1. Education and students affairs:

Students' society & support

Students society in the faculty is supervised by the vice deanship for education and students affairs and their activities are arranged by students' union which is very active and enthusiastic union. They got a lot of achievements that include:

a. Sport subunit:

- Holding an internal football league 20/3/2018.
- Participation in the sports festival organized by the General Administration for the student's care in cooperation with the Ministry of Youth and Sports, 13-14/3/2018.
- Participation in the internal league of the university and achievement of:
 - ✓ Third place in the wrestling competition (Ahmed Saied Sherbeny, Nehal Mamdouh)
- The faculty football team awarded the first place at Zagazig university.
- Student/Aya Mohsen Ibrahim won the first place in the Karate Competition in the university league at the level of Zagazig University.
- The female hand ball team won the second place in the internal University league.
- Student/ Norhan Mahmoud Kamal won the second place in table tennis in the university league at the level of Zagazig University.
- Students/ Shorouk Sameh, Aya Osama Hosney won the second place in the Javelin Contest in the University League at the level of Zagazig University.
- The football team (males) won the third place in the university league at the level of Zagazig University.
- The Volleyball team (females) won third place in the internal University league.

- Student/ Shrouk Sameh won the third place in the Shot Puts competition in the university league at the level of Zagazig University.
- Students/ Nehal Mamdouh Abdul Moneim, Shrouk Sameh won the third place in the Discus throw competition in the university league at the level of Zagazig University.
- Student/ Abanoub Magdy won the third place in table tennis in the university league at the level of Zagazig University
- Student/ Mahmoud Elshafey won the third place in Long jump in the university league at the level of Zagazig University.

b. Social relations subunit:

- Participation with the University Students Union in the first university youth conference with a banner entitled: “Egypt, hope and future” 5/2-7/2/2018.
- Participating in the Conference of “Women of Egypt support the president” 10/2/2018.
- Participation in a symposium entitled "Against extremism and terrorism" Organized by the General Administration for Student Care 22/2/2018.
- Participation in a training seminar for Zagazig University students in cooperation with CIB bank 6/3/2018
- Arranging the closing ceremony of summer training for level 5 clinical pharmacy students 22/3/2018.
- Arranging a number of scientific activities within the activities of the Egyptian Science Week organised by Academy of Scientific Research 25/3/2018.
- Participation in the educational forum for the university girls entitled: “girl and the development” Abu Kir-Alexandria, 25/3-30/3/2018.
- Arranging a medical course for medical faculties including: pharmacy, medicine, veterinary medicine, nursing, and disabilities’ sciences, 19/4/2018.



- “Creativity” team checked the first aid boxes and completed the deficiencies.
- Organizing the 7th student scientific conference 10/4/2018



- Organizing the 7th Scientific Conference of Faculty of Pharmacy, Zagazig University, 15/4/ 2018.



- Organizing an entertainment day (Chess Tournament, handmade craft), 11/2/2018.
- Organizing a trip to 57357 Hospital, 20/2/2018.
- Organizing different trips to: Alexandria city, 23/2/2018, 30/3/2018, Ein-sokhna 29/3/2018.
- Blood donation campaign, 14/3/2018.



- Field visit to the training sector of the Ministry of Military Production 26/2/2018.
- Organizing an entertainment party for the Sharkia orphanage 13/3/2018.
- Organizing a visit and an entertainment party for Herya Orphanage 16/3/2018
- Donation campaign for orphanage 6/3-4/4/2018.
- Participation in the Ideal student competition.2/4/2018

c. *Art subunit:*

- An introductory concert for the activities of the subunit includes a play show, music, singing and poetry. 17/2/2018.
- The beginning of the theatre rehearsals of the 3 chapters play.
- Participation in the 3 chapters play.



- The Art subunit achieved the best actor award in the one-chapter theatre competition at the Zagazig university level.



d. The cultural subunit:

- Organizing a "Talent Discovery "competition. 10/2/2018.
- Preparation of a wall magazine 20/2/2018.
- Organization of a Party for Talents 11/3/2018.
- Organization of a seminar entitled "Time Management and Planning" presented by Dr/Ibrahim abou Almagd. 7/4/2018.
- Organization of a general Information competition “The genius”14/4/2018.
- The cultural committee won the first place in the competition (creativity 6) at the level of the university in the information league (student / Abdullah Hassan Radwan).
- The cultural committee won the second place in the competition (creativity 6) at the university level in the television correspondent (student / Sarah Mohamed Bahaa El Din Mohamed).

- The cultural committee won the second place in the competition (creativity 6) at the university level in the short story (student / Sarah Mohamed Bahaa El Din Mohamed).

e. Science and Technology subunit:

- Organizing an awareness day about hypertension, 14/2/2018.
- Arranging a workshop entitled "pharmaceutical advertising and effective communication". 22, 24/2/2018.
- Arranging a competition about scientific researches, 10/3/2018.
- Activation of the "science club", 26/3/2018.

f. The families' subunit:

- Organizing a book fair "give & have" 3/2-15/4/2018.
- Organizing a training course in association with Alumni Association. 30/1-1/2/2018.
- Organizing an event entitled: "Happiness Street" including handmade raft, Photography, drawing and games, 19-20/2/2018.
- Participation in the university festival of families committees 1/4-5/4/2018 and achievement of:
 - ✓ Third place table tennis (student/Mariam Mohamed Lotfy)
 - ✓ Fifth place whole memorizing of Holly Quran (student/Mohamed Adel)
- Organizing an event entitled "drug profile" event 22/4/2018.
- Arranging a training course for students in association with Merck, Delta Pharm bio.
- The family subunit won the third place in the family festival at the university level.(Students/ Sarah Mohamed Bahaa El Din, Abdulla Hassan Radwan, and Ahmed Hazem).

g. The scout subunit:

- Participating in the University Scout Festival under the slogan (we are all one against terrorism), 10-17/3/2018.
- Arranging an event for marketing the scout products, 14/4-16/4/2018.
- The scout subunit won the second place in the Friendship Festival at the level of pharmaceutical colleges of Egyptian universities.



Exams & students assessment unit:

There was a shift in the preparation of written exams in which MCQs, True/False and matching questions are applied instead of long answer essay questions. The students select the correct answer by filling in the associated circle on the machine-readable response sheet.

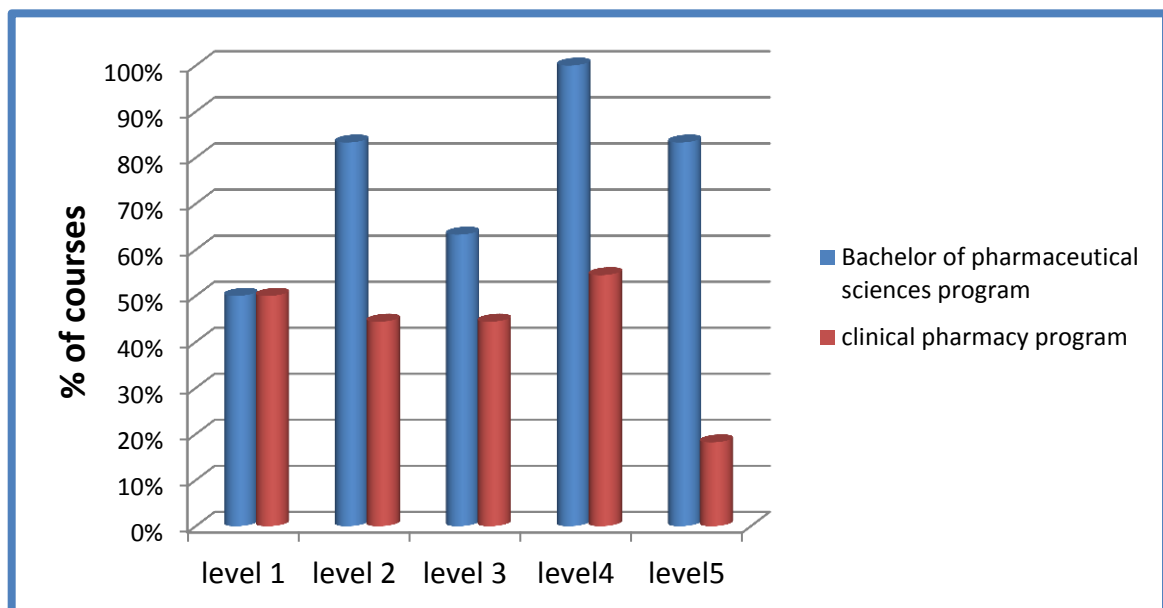


Figure 13: Percentage of courses that changed the types of questions in the final written exam and used electronic marking system.

13.2. Environmental Development & Community service:

The vice dean of Environmental Development & Community service is responsible for coordinating the role of the faculty of Pharmacy either in the university or Zagazig community.

Events enforcing the relationship with the community include:

- 7th student scientific conference 10/4/2018
- Participation with the postgraduate & scientific research vice deanship in the arrangement of the 7th Scientific Conference of Faculty of Pharmacy, Zagazig University, 15/4/ 2018.
- The first meeting of medical faculties, 19/4/2018
- The General Conference of Faculty of Pharmacy, Zagazig University, 30/4/2018.
- Participation with the education and students affairs vice deanship in the organization of the Graduation Ceremony of the 39th class 3/10/2017



- Recognition Ceremony of the outstanding symbols of the faculty and the Ministry of Health in association with the Pharmacists Syndicate 9/12/2017



- Day of Excellence 29/4/2018





- Ramadan Iftar 13/6/2018



- The silver Jubilee ceremony of pharmacy graduates (class 1992) in association with the Pharmacists Syndicate 12/8/2018



- Graduation Ceremony of the clinical pharmacy students class 2018 on 9/8/2018.





- | | |
|---|---|
| 1- Registration (from 10:30 till 11:30) | ١- التسجيل (من ١٠:٣٠ إلى ١١:٣٠) |
| 2- Capture Memorial Photos in & out of hall | ٢- التقاط الصور التذكارية داخل وخارج القاعة |
| 3- National Anthem (Egyptian - Malaysian) | ٣- السلام الجمهوري (المصري - الماليزي) |
| 4- The Holy Qura'an | ٤- القرآن الكريم |
| 5- Coordinator Word | ٥- كلمة ممثل الدفعة |
| 6- Welcome Words | ٦- كلمات الترحيب (كلمة العميد - كلمة نقيب الصيادلة
كلمة نائب رئيس الجامعة - كلمة رئيس الجامعة) |
| 7- Honoring the Malaysians | ٧- تكريم الماليزيين |
| 8- Honoring the Top | ٨- تكريم الأوائل |
| 9- Honoring the Graduates | ٩- تكريم الخريجين |
| 10- Closing Image | ١٠- صورة الختام |

- Participation with the faculty of Medicine in the organization of End of summer training ceremony for Clinical pharmacy students 15/8/2018.

- Students training in EPICO (30/8/2018)



- Recognition ceremony of the outstanding students 5/9/2018



- Participation with the postgraduate & scientific research vice deanship in the organization of Graduation Ceremony of the first class of Clinical Pharmacy Diploma 8/9/2018.

Arrangement of various lectures:

- Combating violence against women, 12/11/2017
- The art of embroidery and handicrafts, 8/11/2017
- Awareness of the most common skin diseases, 29/11/2017



- The Egyptian Knowledge Bank and its role in community serving, 28/12/2017

- Western Blot Analysis, 28-31/1/2018
- Excellent pharmaceutical skills, 31/1/2018



- Strategic marketing communication, 22/2/2018



- Pharmacy carrier pathway, 3-5/4/2018

- Drug management cycle, 29/8/2018

Student visits:

- Field visit to the Ministry of Military Production (Training sector) 26/2/2018.
- Participation in student-exchange program between faculty of pharmacy, Zagazig University and students from other Arab universities.
- Training of Jordanian students 1-30/7/2018.
- Malaysian students' trip to 57357 Hospital on 20/2/2018.



Safety and Crisis Management Unit:

- Signing an agreement between the faculty of Pharmacy and faculty of Medicine to utilize the faculty of medicine grinder for the disposal of biological wastes.

Pharmaceutical Consultation Unit:

- Calibration of the devices of the pharmaceutical consultation unit in cooperation with the Ministry of Military Production and the National Institute of calibration.

Training Unit:

No of attendees	Trainers	Attendees	Date	Training course	No
10	<ul style="list-style-type: none"> • Dr. Samar Abd Al-Hameed • Dr. Hend Kotheir • Dr. Noura Gamal 	5 th year & postgraduate students	2017/11/29	How to launch a research project	1
10	Dr. Islam Al-Azazi	Demonstrators & postgraduate students	2018/1/27	western plot analysis	2
22	Assiss Prof. Gehan Balata	Students	2018/8/29	Drug management cycle	3

Medical convoys:

The faculty of Pharmacy had participated in different medical convoys arranged by the university where they provided a range of specialized medical care to the underserved villages that include:

- Shurshima village –Hehia, 15/11/2017
- Karadis village- Deyarb Negm, 3/12/2017
- Alsanagra village- Abu Hammad Center, 10/1/2018
- Ghazala Al-Khais, 27/2/2018
- Al Samaana Village –Faqous, 14/2/2018
- Kom hellin village- Minya alkamh, 3/7/2018



Others:

- Egyptian Federation of Pharmacy Students : Blood Donation Campaign in cooperation with the Blood Bank at Al Ahrar Hospital. 13-14/3/2018.
- Competition of ideal mother for faculty members and administrative staff and announcement of the result on 21/3/2018
- Faculty of Pharmacy students under the supervision of vice dean for environmental development and community service and the head of students support center worked hard for one week to prepare the faculty for the new academic year (2018 – 2019)





13.3. Postgraduate studies & Research:

The most significant achievements of the vice deanship of post graduate studies & research include:

- Launching a new postgraduate program “Clinical pharmacy diploma”





- Preparation of a proposal for the establishment of “PharmD diploma”
- Organizing the 7th Scientific Conference of Faculty of Pharmacy, Zagazig University, 15th April, 2018.
- Organizing a workshop directed for the demonstrators and lecturer assistants entitled “International Publishing of Scientific Researches”
- Activation of the clinical & Biochemical Analysis Diploma (Approval state).

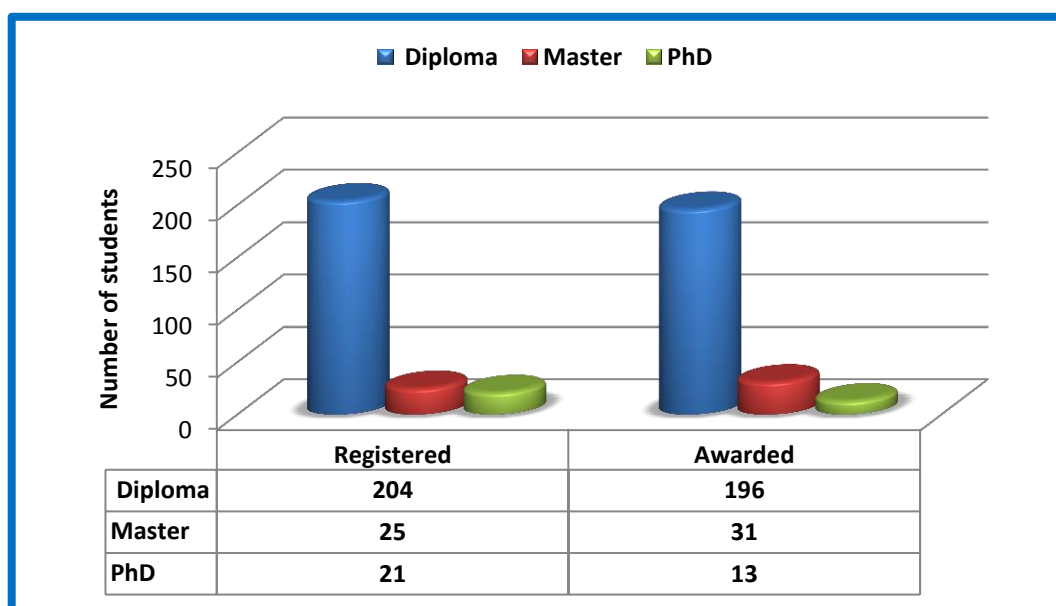


Figure 14: Number of registered students and awarded different postgraduate degrees including clinical pharmacy diploma, master and PhD degrees.

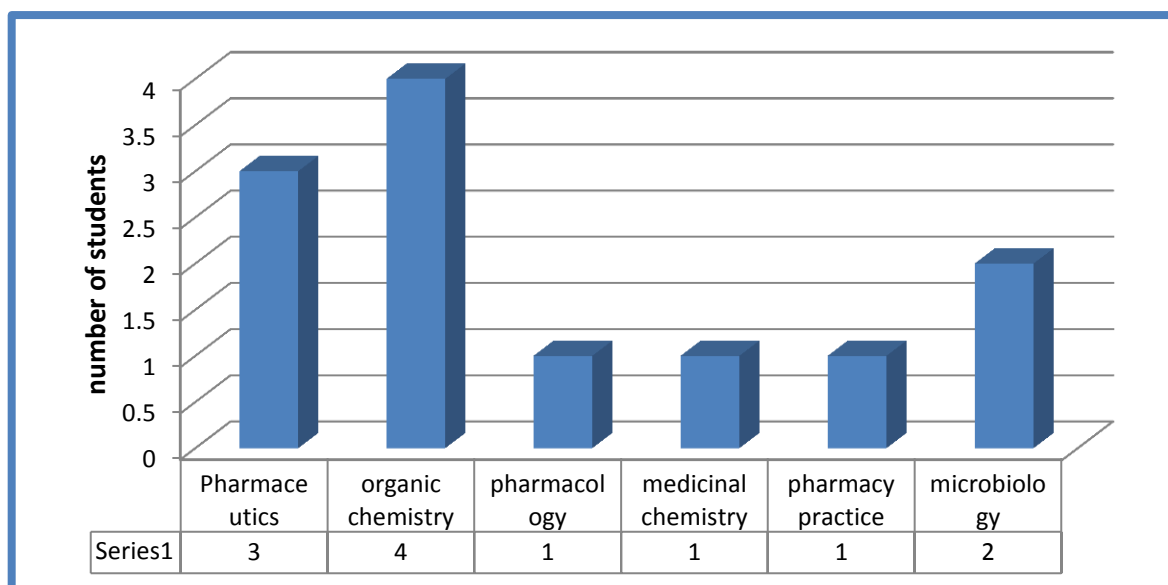


Figure 15: Number and distribution of postgraduate students in scholarships.

Library:

- The following references were added:
- Profiles of drug substances, excipients and related methodology
- British pharmacopeia, 2017 (6 copies)
- Martindale (2 copies)

The 7th Scientific Conference of Faculty of Pharmacy “New horizons in pharmaceutical research”:

Conference aims: Present recent advances in pharmaceutical research
 Illustrate new treatment in hepatitis B & C
 Discuss the future of clinical pharmacy in Egypt

Conference agenda:

Opening & Welcoming ceremony	9:30 – 10:00
Prof. Niveen George Elantouny	10:00 – 10:30
(New lines for treatment of hepatitis B & C	
Prof. Mohey Hafez	10:30 – 11:00
(Strategies of drug future 2030)	
Prof. Wessam ElSisi.....	11:00 – 12:00

(Pharmacy in ancient Egypt)

Coffee Break & Poster Session

Prof. Ahmed ElBerri

(The future of clinical pharmacy in Egypt)..... 12:30 – 1:00

Dr. Sara Hozyen

(Overview about homeopathy)..... 1:00 – 1:30

Different presentations in different pharmaceutical research areas..... 1:30 – 3:00

Recognition of the best 3 presentations & posters..... 3:00 – 3:30

Conference Closing



Rewards of international publication:

Teaching staff members in the faculty of Pharmacy are distinguished in scientific research as indicated before in the aforementioned publications. They have many distinct publications in international journals that are awarded from the university.

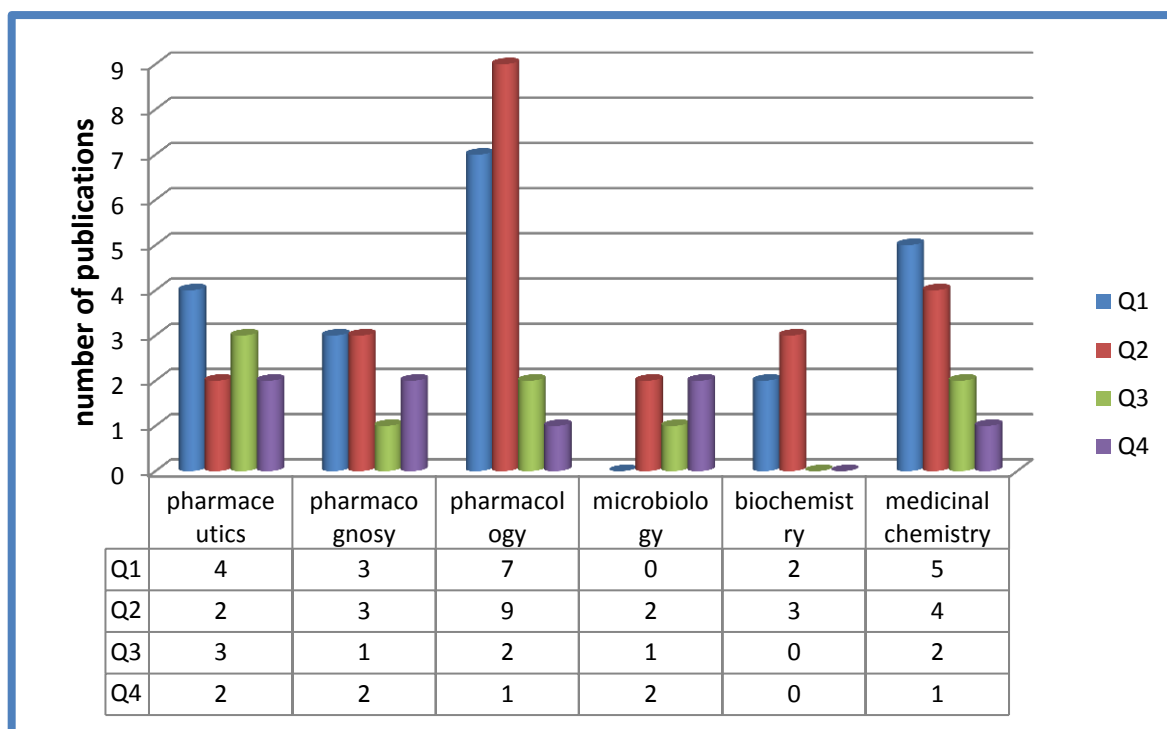


Figure 16: Distribution of international publication rewards among different departments.

14. Priorities for improvement:

- Increase the number of funded research projects.
- Establishment of recognition awards for outstanding teaching
- Maintenance of some facilities such as toilets in pharmacy department and exam control floor
- Equipping each lab with a data show
- Enforcing the internet connection in labs & teaching halls
- Renovation of the computers of the e-library hall
- Increase the number of qualified administrative staff



