



Faculty of Pharmacy

Annual Report

2018 – 2019



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. Ghada Hamid Shaker

Prepared by:

Director of Quality Unit: Assis Prof. Gehan Balata

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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 2018 – 2019. 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 since August 2019 | Professor Ghada Shaker |
| Ex. Dean | Professor Mohamed Baraka |
| Vice Dean for Students Affairs | |
| Vice Dean for Postgraduate studies & Research | Professor Hanan Elnahas |
| Vice Dean for environmental Development & Community service | Professor Mervat Hosny |

Faculty of Pharmacy organization structure was updated and approved by the faculty council No.717 (12/11/2018), in which two new units were added: Strategic planning and Research projects. It 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 & Immunity
- Pharmaceutics & Industrial Pharmacy
- Pharmacy practice

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Fax: 055/2303266

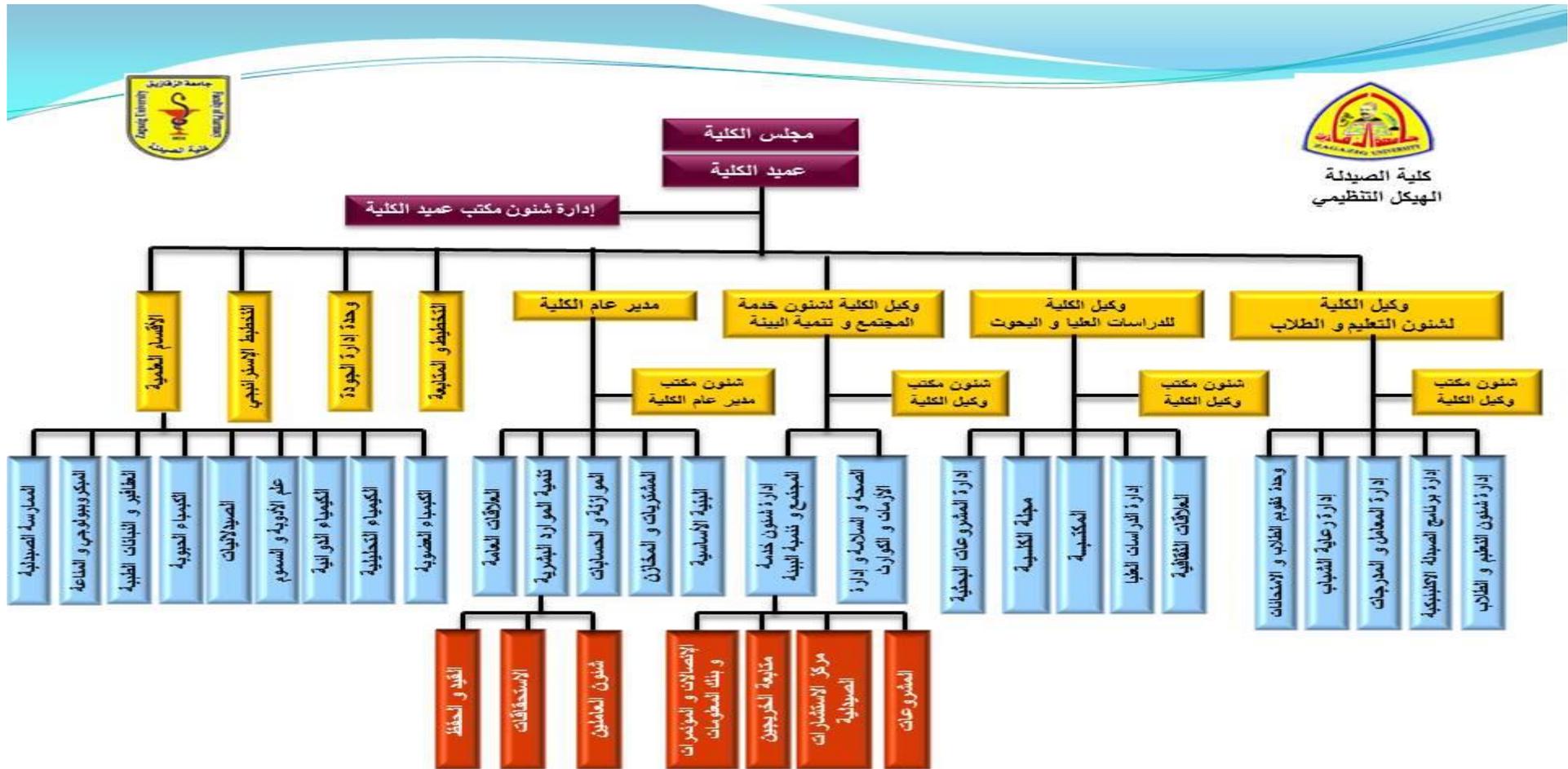


Figure 1. Faculty of Pharmacy organization structure.

4. Strategic planning:

Strategic planning unit was established in September 2017. Faculty of Pharmacy has prepared a strategic plan 2017 – 2022. The strategic plan is based on 7 strategic goals and 25 strategic objectives that include:

Strategic Goal 1: High quality learning environment:

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

Achievements:

- ✓ Establishment of the fourth floor of the faculty administrative building including 4 lecture halls, 3 laboratories for clinical pharmacy students and 2 research labs in addition to 3 offices with a cost of 6 million pounds.
- ✓ Establishment of drug design lab
- ✓ Renovation of lecture hall C (addition of 6 air conditioners , curtains and painting)
- ✓ Renovation of organic chemistry labs and toilets 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
- ✓ Repairing all wireless audio devices at a cost of 14900 pounds.
- ✓ 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.
- ✓ Purchasing of microscopes for microbiology department with a cost of 250,000 pounds
- ✓ 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 for students safety.

- ✓ 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.

Strategic Goal 2: Development of managerial and administrative capacities:

Strategic objective 2.1: Maintain justice and accountability

Achievements:

- ✓ Updating job description booklet and approval in the faculty council No. 721 (14/1/2019)
- ✓ Updating moral charter and approval in the faculty council No. 717 (12/11/2018)

Strategic objective 2.2: Development of human resources

Strategic objective 2.3: Implementation of technology in communication between different departments within the faculty

Strategic objective 2.4: Development of the faculty website

Achievements:

- ✓ Establishment of website unit with preparation of a policy for publication activities on the website which was approved in the faculty council No. 736 (9/9/2019)

Strategic Goal 3: Improvement of educational effectiveness:

Strategic objective 3.1: Continuous updating of educational courses

Strategic objective 3.2: Maximize the role of self-learning and e-learning

Strategic objective 3.3: Continuous development of teaching methods

Strategic objective 3.4: Expansion of cooperative education and use different field experts in teaching

Strategic objective 3.5: Improvement of methods of students assessment

Strategic objective 3.6: Improvement of students support and services

Strategic objective 3.7: Implementation of student mentoring system for first year students of bachelor of pharmacy program

Strategic objective 3.8: Strengthen the relationship between the graduates and the faculty

Achievements:

- ✓ Preparation of teaching and learning strategy approved in the faculty council No. 715 (8/10/2018)

- ✓ Organization of different workshops to improve staff teaching and assessment skills

Table 2. List of workshops arranged for staff members for development of teaching and assessment skills.

| Workshop | Date | No of attendees |
|---|-------------|------------------------|
| "National Academic Standards for Pharmaceutical Education | 26/9/2018 | 75 |
| Electronic exams | 14/10/2018 | 39 |
| Structured student assessment | 21/10/2018 | 25 |
| Preparation of course portfolio | 29/10/2018 | 32 |

Strategic Goal 4: Upgrading postgraduate studies and scientific research:

Strategic objective 4.1: Establishment of new professional diploma programs

Strategic objective 4.2: Continuous development of postgraduate courses

Strategic objective 4.3: Improvement of the faculty scientific journal

Strategic objective 4.4: Correlate scientific research with the problems of the pharmaceutical industry (applied research)

Strategic objective 4.5: Arranging scientific conferences

Strategic objective 4.6: Developing a mechanism to measure the efficiency of the research process

Achievements:

- ✓ Preparation of Faculty Research Plan 2018-2023 which was approved in the faculty council No. 717 (12/11/2018)

Strategic Goal 5: Expansion in community service and environment development:

Strategic objective 5.1: Activate the role of the faculty in solving the problems of the surrounding environment

Strategic objective 5.2: Expansion of medical convoys and awareness campaigns within and outside the university

Strategic Goal 6: Commitment to the application of quality standards in education:

Strategic objective 6.1: Increase awareness about the quality and its latest developments

Strategic objective 6.2: Commitment to implement the standards of the National Authority for Quality Assurance of Education and Accreditation (NAQAAE)

Strategic objective 6.3: Renewal of academic accreditation

Achievements:

- ✓ Preparation of accreditation files to be submitted to NAQAAE and organization of the re-accreditation visit (31 Mar – 2 Apr/2019) but the accreditation decision was postponed till fulfillment of the requirements of 4 standards

Strategic Goal7: Development of faculty financial resources:

Strategic objective 7.1: Develop faculty capacity and resources

Achievements:

- ✓ Development and marketing for the services provided by the special faculty units

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.

Achievements:

- ✓ Updating the organization structure and internal bylaws of the quality unit and approval through the faculty council No. 712 (13/8/2018)
- ✓ Preparation of a gap analysis between the faculty programs and NARs 2017 for pharmacy education and its approval through the faculty council No. 713 (10/9/2018)
- ✓ Preparation of faculty training plan for staff development and its approval through the faculty council No 715 (8/10/2018)
- ✓ Preparation of the faculty annual report 2017-2018 and its approval through the faculty council No. 717 (12/11/2018)
- ✓ Preparation of the annual program reports for Bachelor of pharmacy & Clinical pharmacy programs and its approval through the faculty council No. 721 (14/1/2019)
- ✓ Distribution and analysis many surveys to measure stakeholders satisfaction about different aspects (courses, programs, graduates skills, learning and work

environment, field training, etc... and results approval through the faculty council No 727 (24/3/2019)

- ✓ Regular internal review process to faculty departments and exam controls and results approval through the faculty council No 727 (24/3/2019)
- ✓ Enhance the awareness of staff, demonstrators and students about the importance of quality in education through distribution of brochures and arrangement of orientation sessions

Table 3: 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 1. 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:

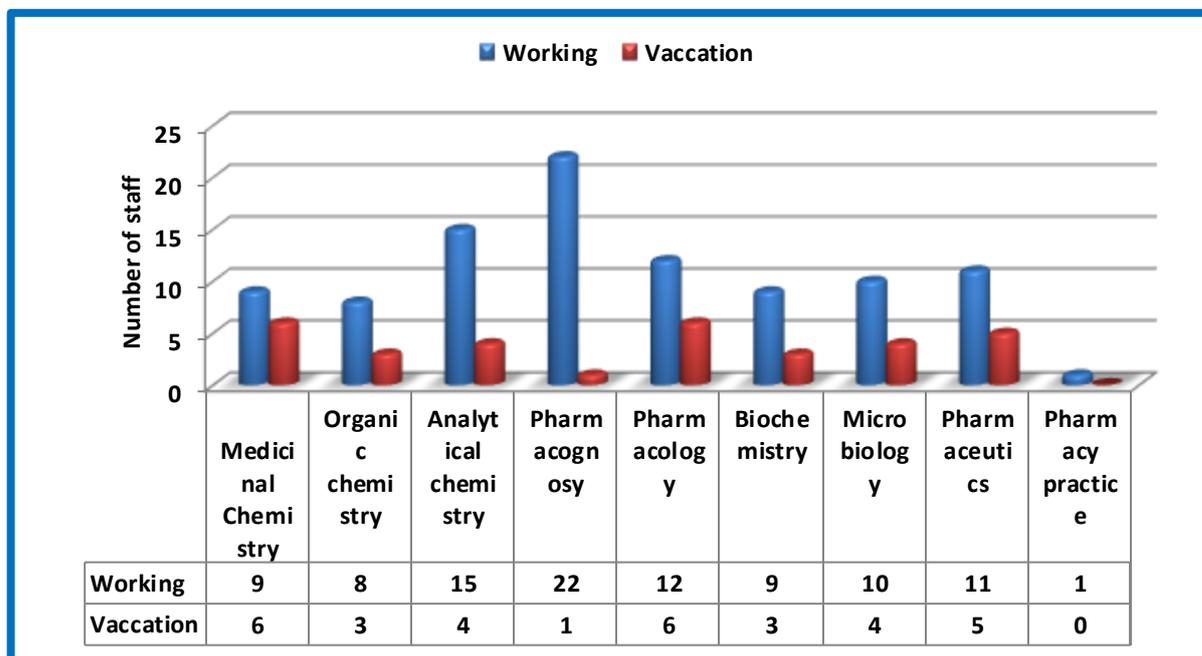


Figure 2. Number of teaching staffs in different faculty departments.

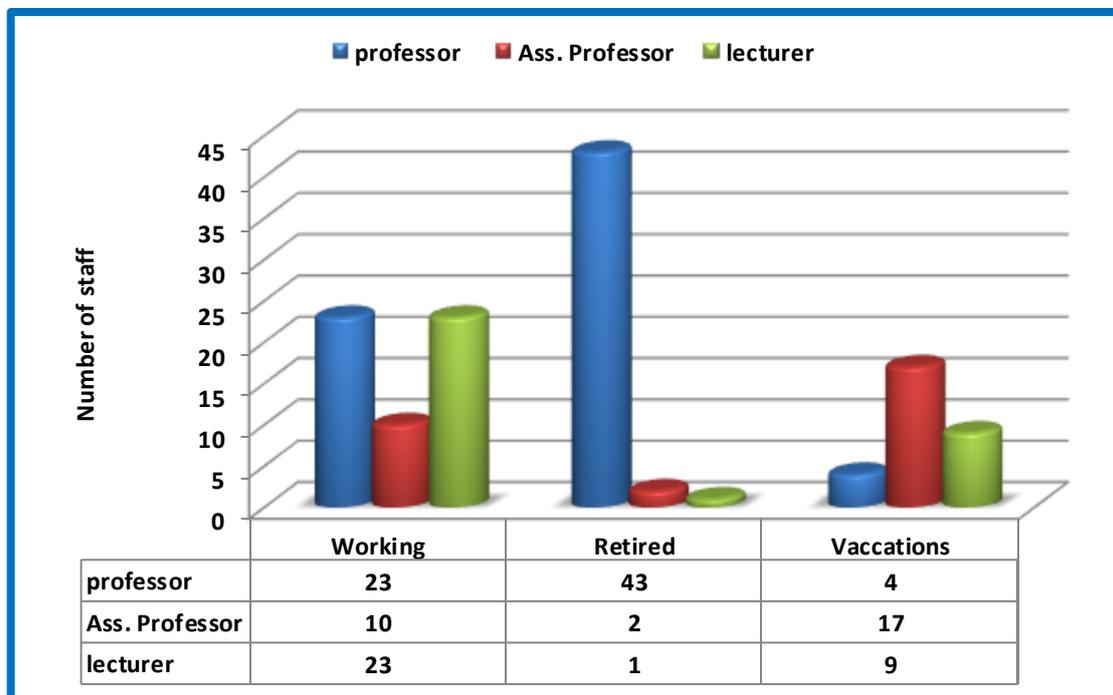


Figure 3. Classification of teaching staffs.

b. Demonstrators & assistants lecturers:

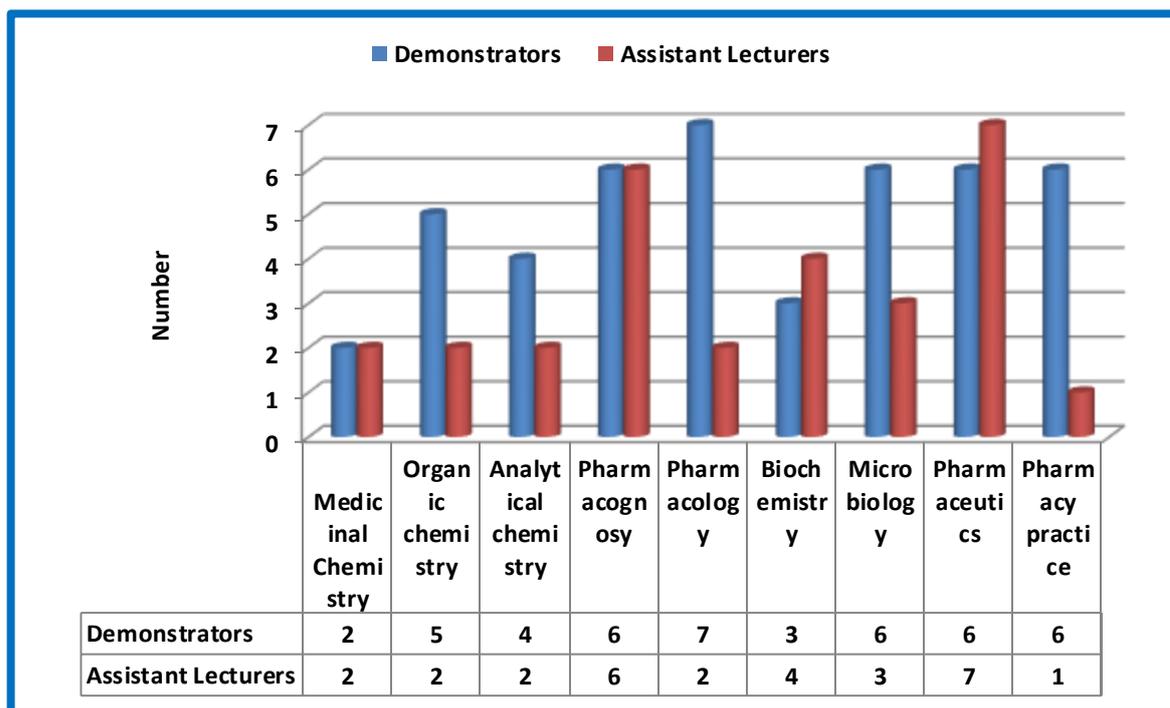


Figure 4. Number of demonstrators & assistant lecturers in different faculty departments.

7. Administrators:

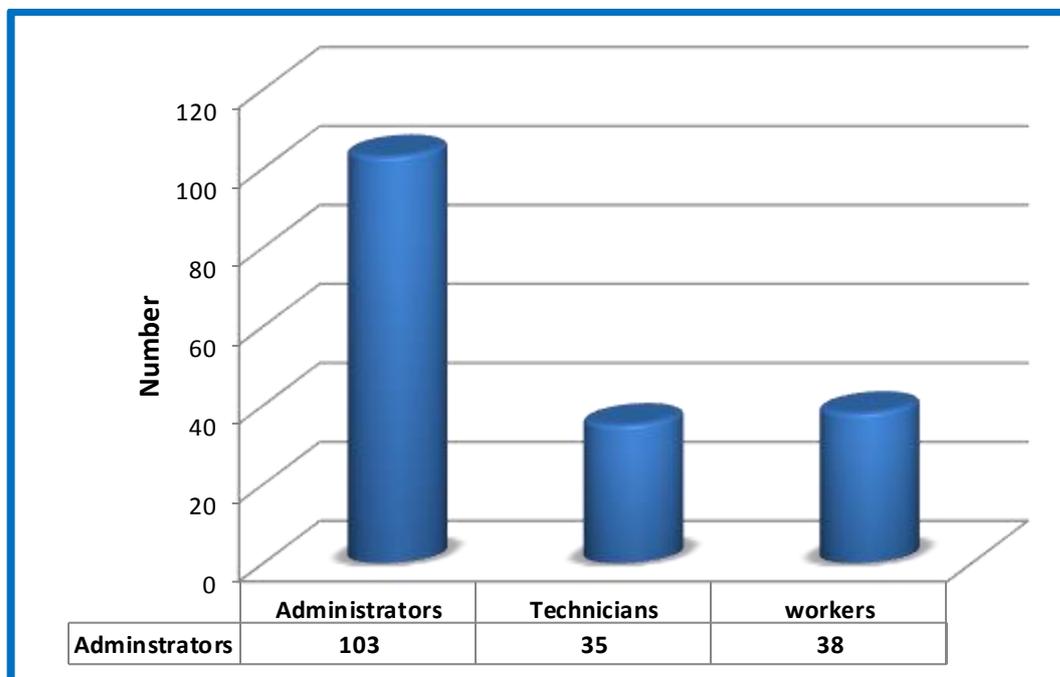


Figure 5. Number of administrators and their classification.

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.

➤ Budget:

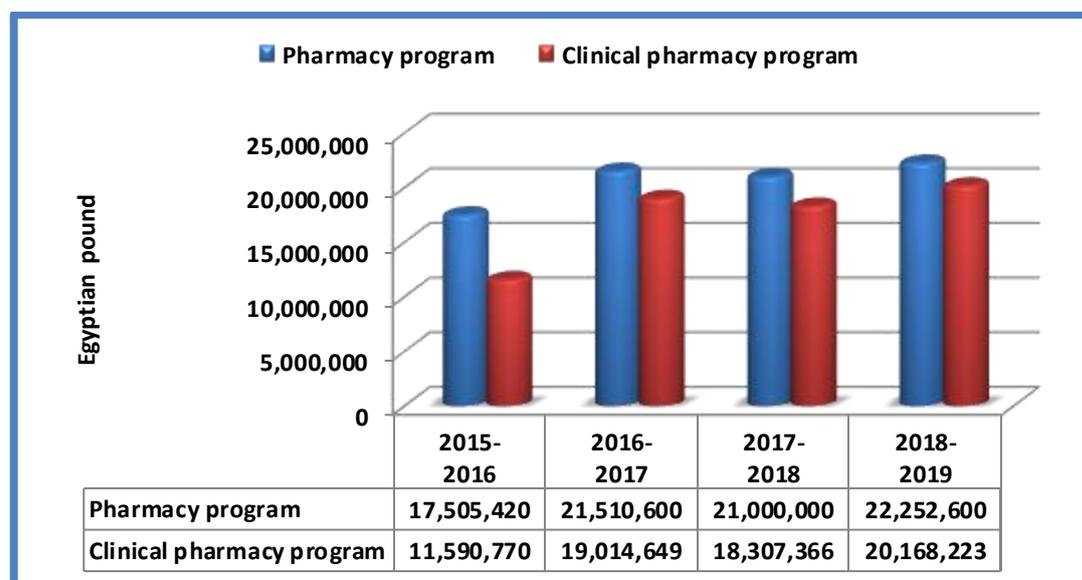


Figure 6. Faculty of Pharmacy budget within 3 academic years (2015 – 2019).

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 prepare and implement PharmD programs according to the new academic standards for pharmacy education, 2017 by the academic year 2019-2020. 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 to add some new courses related to pharmacy practice such as Pharmacovigilance, Bioinformatics and shift in our teaching from passive into interactive learning.

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

Table 4. 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 | 2 - 5 years |
| Biochemistry | |
| Pharmacology & Toxicology | |
| Analytical Chemistry | |
| Pharmaceutics & Industrial Pharmacy | |
| Pharmacognosy | |
| Microbiology & Immunity | |
| Pharmaceutical Organic Chemistry | |
| Pharmacy Practice | |
| Clinical Pharmacy Diploma (30 CU) | 1 year |

10. Students & graduates statistics:

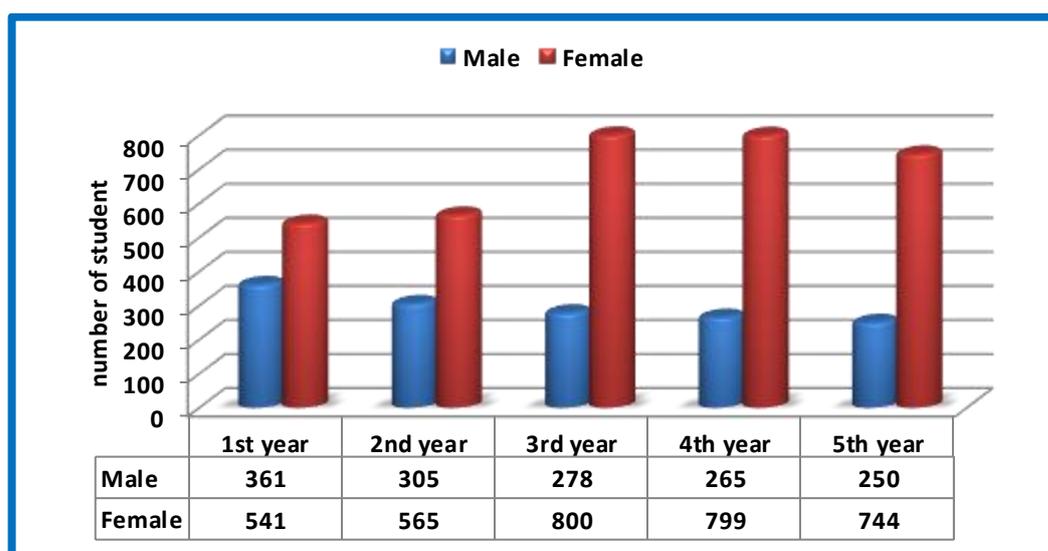


Figure 7. Statistics of students' enrolment in different levels (Bachelor of pharmacy)

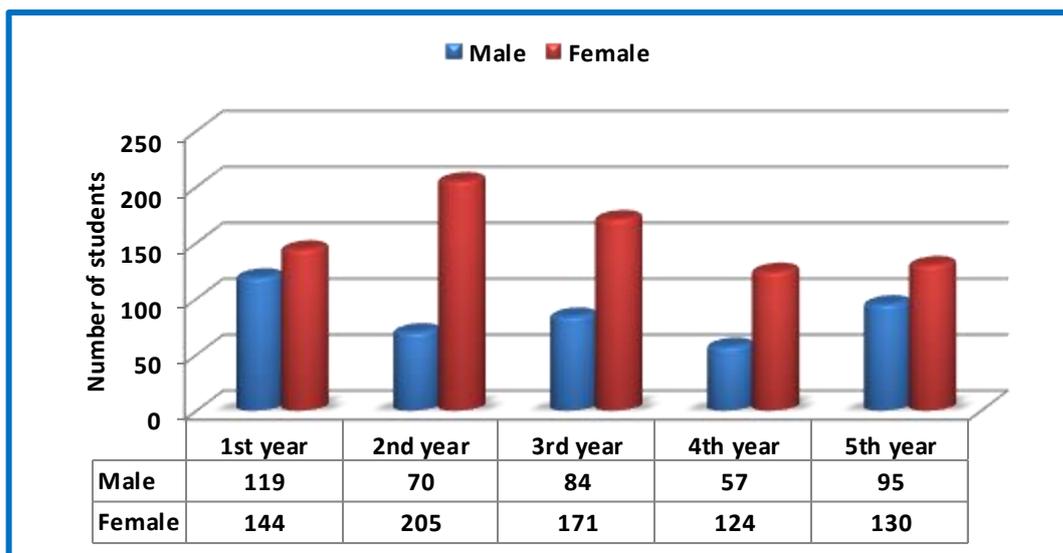


Figure 8. Statistics of students' enrolment in different levels (Bachelor of pharmacy, clinical pharmacy)

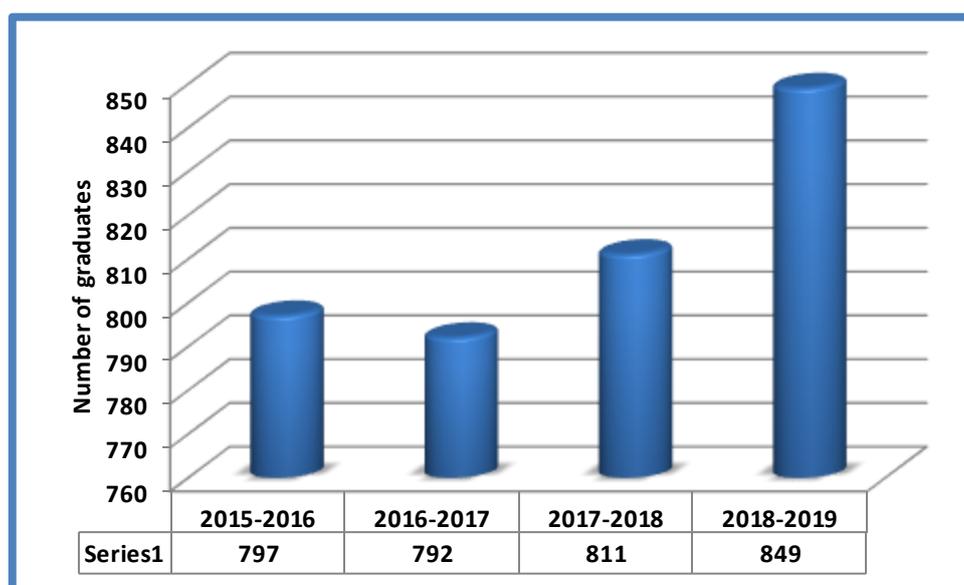


Figure 9. Statistics of graduates in the last three years (Bachelor of pharmacy).

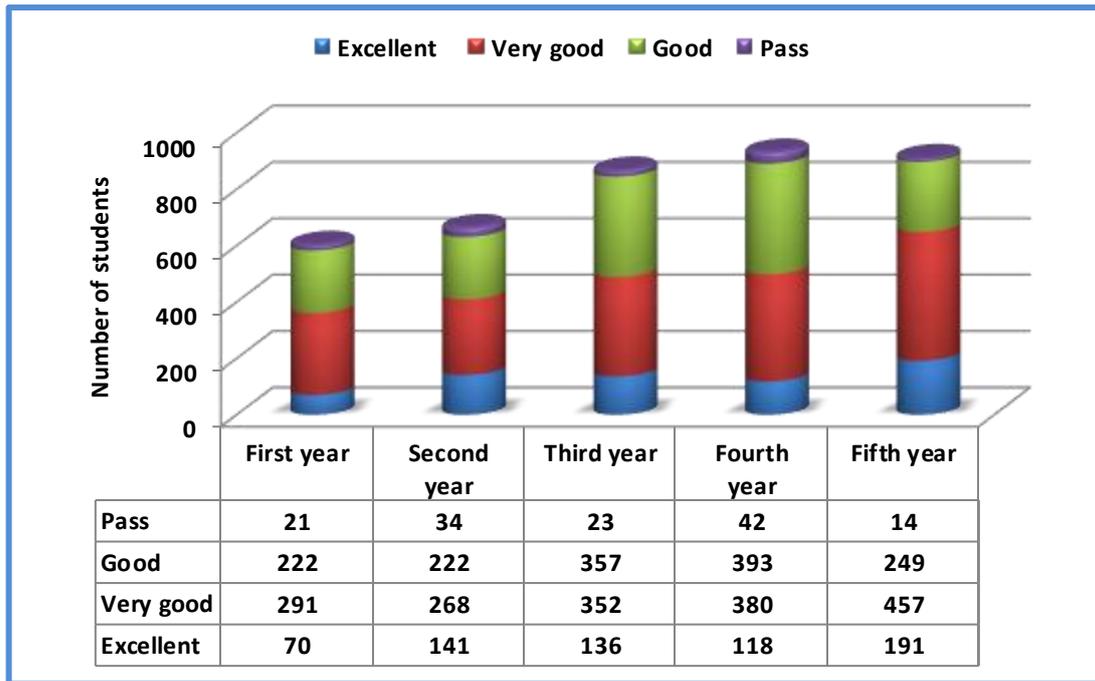


Figure 10. Statistics of students grades in different levels (Bachelor of pharmacy).

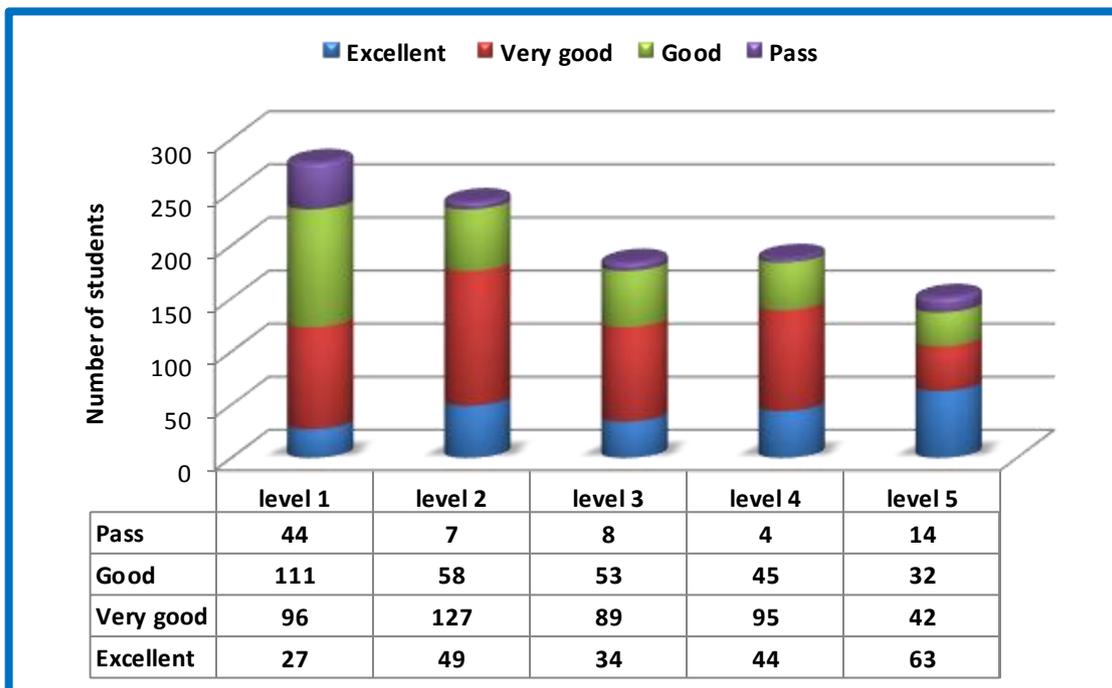


Figure 11. Statistics of students grades in different levels (Bachelor of pharmacy, Clinical Pharmacy).

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.

11. Media Coverage:

11.1. Newspapers:

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

➤ **Kashkool (29 Sep. 2018) :**

President of Zagazig University and the Governor of Sharkia participate in the graduation ceremony of the Faculty of Pharmacy

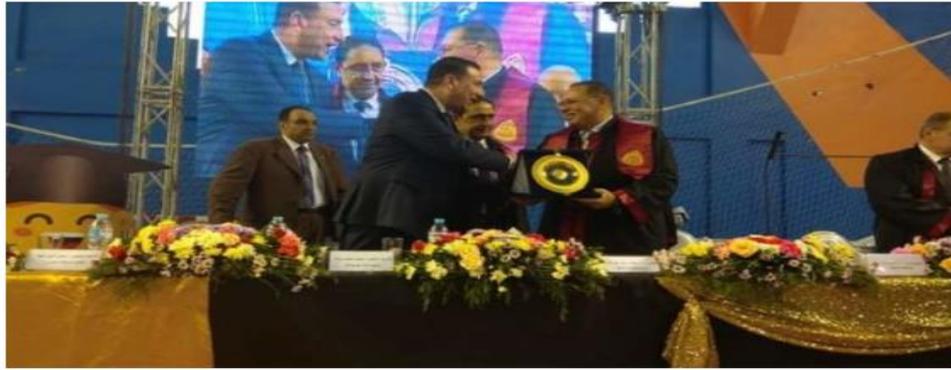


➤ Dr News Web

The Chairman of pharmacist syndicate in Egypt attends the graduation ceremony of the 40th batch of Zagazig Pharmacy.



الرئيسية « أهم الأخبار » بالصور.. نقيب الصيادلة يشهد حفل تخرج الدفعة 40 من صيدلة الزقازيق



بالصور.. نقيب الصيادلة يشهد حفل تخرج الدفعة 40 من صيدلة الزقازيق

➤ Veto Gate (2 March 2019):

The Zagazig Pharmacy Students' Union participates in organizing the "100 Million Health Campaign" in Sharkia.



➤ **Kashkool (2 March 2019):**

The Zagazig Pharmacy Students' Union participates in organizing the "100 Million Health Campaign" in Sharkia.



➤ **Sharkawy news (27 MARCH, 2019):**

The eighth student scientific conference:



➤ Almsaa Alaraby (11 April, 2019):

Faculty of Pharmacy organizes its eighth scientific conference on 20 April/2019.

المساء العربي
ورئيس التحرير
عمر عوض

البيترول والثروة المعدنية اخبار عاجلة مصر النهرية اخبار عربية ودولية اخبار المحافظات اخبار الرياضة
مقالات ووجهات نظر مال واعمال موافق وطرائف مناسبات وتعماني نواب وبرلمان وأحزاب ونقابات مطبخ
عيادة المساء العربي استشارات بريد القراء مسلسلات وافلام وبرامج دين وحياء أدب وثقافة وشعر تكا

صيدلة الزقازيق تنظم مؤتمرها العلمي الثامن ٢٠ أبريل الجاري

22:52:45 2019-04-11

مشاركة أعجبني Tweet



➤ Alakhbar (17 April, 2019):

Recognition Ceremony for outstanding students, faculty of pharmacy, Zagazig University.

استراتيجية صناعة الدواء في مصر في مؤتمر علمي بجامعة الزقازيق



د. محمد بركة

رئيس المؤتمر أنه سيتم مناقشة الاتجاهات الحديثة في علاج مرض التهاب الكبدى الوبائى والأضرار الناجمة عن استخدام مضادات الفيروسات الكبدية. وأحدث التقنيات والأبحاث العلمية فى مجال الصيدلة والتصنيع الدوائى والكيمياء الدوائية والحيوية وعلوم المناعة.

الشرقية - سناء عنان:

يقعد بجامعة الزقازيق السبت المقبل مؤتمر علمي حول «استراتيجية صناعة الدواء ومستقبل التعليم الصيدلى فى مصر».. تنظم المؤتمر كلية الصيدلة بالجامعة تحت رعاية الدكتور خالد عبد البارى رئيس الجامعة والدكتور محمد محمود بركة عميد الكلية.

يشهد المؤتمر الدكتور ماهر الدمياطى رئيس لجنة قطاع الدراسات الصيدلانية ورئيس الجامعة الاسبق ولقيف من أساتذة الصيدلة وأمراض الباطنة من الجامعات المصرية وعدد من المستثمرين المهتمين بصناعة الدواء وشركات الأدوية.

وصرح الدكتور محمد بركة بأن المؤتمر يناقش الجديد فى مجال صناعة الدواء والتعليم الصيدلى فى مصر والمستقبل المرتقب لصناعة الدواء ودور البحث العلمى فى إيجاد حلول لمشاكل تلك الصناعة. واضافت الدكتورة حنان النحاس

➤ Sharkawy news (30 April, 2019):

Recognition Ceremony for outstanding students, faculty of pharmacy, Zagazig University



The screenshot shows the Sharkawy News website. The header includes the site name 'شركاوي نيوز' and 'الشرقبة بحرون الشباب'. A navigation bar lists categories like 'الرئيسية', 'مشروع تخرج', 'بلييس', 'اخبار مصر', 'مدريات', 'بلييس', 'صوت الجامعة', and 'شركة'. A red banner below the navigation bar reads 'القبض على تشكيل عمالي لسرقة المشغولات الذهبية بكفر صقر'. The main article title is 'بالصور... حفل المتميزين في كلية الصيدلة جامعة الزقازيق' (Photos... Ceremony for outstanding students in the Faculty of Pharmacy, Zagazig University). The article is dated 'في: أبريل 30, 2019'. Below the title is a large photograph of a group of students and faculty members in a classroom setting, some holding certificates.

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➤ AlmssaNews (1 May, 2019):

Faculty of pharmacy, Zagazig University Celebrating the new Students' Union and recognize outstanding students.



The screenshot shows the AlmssaNews website. The header features logos for '46 سنة نصر أكتوبر' (46th Anniversary of October Revolution), 'شبكة المساء نيوز الدولية' (International Evening News Network), and 'AlmssaNews The Trusted news'. A navigation bar includes categories like 'الرئيسية', 'عرب وعالم', 'الشارع السياسي', 'حوادث وقضايا', 'مقالات واراء', 'مال واعمال', 'تكنولوجيا', and 'اهل'. The main article title is 'بالصور احتفالية بصيدلة الزقازيق لتنصيب اتحاد الطلاب وتكريم المتميزين في الأنشطة الطلابية' (Photos of a ceremony in the Faculty of Pharmacy, Zagazig University, celebrating the new Students' Union and recognizing outstanding students in student activities). The article is dated '1 مايو 2019'. Below the title is a photograph of a group of students sitting at a table in a classroom, some holding certificates.

Activate Win
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➤ Alwatan (22 July, 2019):

Dean of faculty of Pharmacy, Zagazig University reports details of the program "pharm D"



➤ Akhbar Alyoum Gate (13 June, 2019):

“The use of bacteria as a treatment instead of antibiotics” Graduation project prepared by 5th year students in Zagazig Faculty of pharmacy.



11.2. Facebook:

[Mubasher.Pharmacy@Messenger](#) (No of followers = 22,722)

12. Academic Staff Achievements:

12.1. Medicinal chemistry department:

a. Publications:

1. 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. Crespo, I.; Giménez-Dejoo, J.; Porté, S.; Cousido-Siah, A.; Mitschler, A.; Podjarny, A.; Pratsinis, H.; Kletsas, D. ; Parés, X.; Ruiz, F., Metwally, K.; Farrés, J. Eur. J. Med. Chem., 152, 160-174 (2018). 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).
2. Inhibitors of aldehyde dehydrogenases of the 1A subfamily as putative anticancer agents: Kinetic characterization and effect on human cancer cells. Jiménez R., Pequerul R., Amor A., Lorenzo J., Metwally K., Avilés F., Parés X., Farrés J. Chem. Biol. Interact., 306, 123-130 (2019). Mahmoud M. Sebaiy and Christa L. Colyer. "Polymer Enhanced Capillary Transient Isotachopheresis 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).
3. Design, synthesis and microbiological evaluation of novel compounds as potential Staphylococcus aureus phenylalanine tRNA synthetase inhibitors. Samar S. Elbaramawi, Casey Hughes, Jennifer Richards, Arya Gupta, Samy M. Ibrahim, El-Sayed M. Lashine, Mohamed E. El-Sadek, Alex J. O'Neill, Mandy Wootton, James M. Bullard, Claire Simons. Egypt. J. Chem. 2018, (ISACHC 2018), 9-25.
4. Design, synthesis and biological evaluation of novel quinazoline-2,4- Diones conjugated with different amino acids as potential chitin synthase inhibitors. Nada A. Noureldin, Hend Kothayer, El-Sayed M. Lashine, Mohamed M. Baraka, Yanrong Huang, Bing Li, Qinggang J. European Journal of Medicinal Chemistry 152 (2018) 560-569.

5. 1,4-Dihydroquinazolin-3(2H)-yl benzamide derivatives as anti-inflammatory and analgesic agents with an improved gastric profile: Design, synthesis, COX-1/2 inhibitory activity and molecular docking study. Asmaa Sakra, Hend Kothayera, Samy M. Ibrahima, Mohamed M. Barakaa, Samar Rezqb. *Bioorganic Chemistry* 84 (2019) 76–86
6. Rapid RP-HPLC Method for Simultaneous Estimation of Some Antidiabetics; Metformin, Gliclazide and Glimepiride in Tablets. Mahmoud M. Sebaiy, Sobhy M. El-Adl, Mohamed M. Baraka, Amira A. Hassan. *Egypt. J. Chem.* 62, No.3. pp.1-12 (2019)
7. Spectrofluorometric Determination of Lisinopril dihydrate and Methyl- Dopa in Bulk and Pharmaceutical Formulation by Using Dansyl Chloride. Sobhy M. El-Adl, Mohamed El.Hossinny El-Sadek, Nariman M. Saeed. *J Pharm Pharmacol Res* 2018; 2 (1): 001-014.
8. Spectrophotometric Analysis of Azithromycin and Clarithromycin in Tablets and Human Plasma Using p-Chloranilic Acid. Sobhy M. El-Adl, Mohamed E. El-sadek & Marwa H. Hassan. *Analytical Chemistry letter*. 2019, 7, 3, 362-372.
9. Different techniques for overlapped UV spectra resolution of some co-administered drugs with paracetamol in their combined pharmaceutical dosage forms. Mahmoud M. Sebaiy, Sobhy M. El-Adl, Amr A. Mattar. *Spectrochim. Acta A Mol. Biomol. Spectrosc.* 224: 117429 (2020). <https://doi.org/10.1016/j.saa.2019.117429>.
10. Synthesis, In vivo and In silico Evaluation of Novel 2,3-Dihydroquinazolin-4(1H)-one Derivatives as Potential Anticonvulsant Agents" Hend Kothayer, Samy M. Ibrahim, Moustafa K. Soltan, Samar Rezq and Shireen S. Mahmoud. *Drug Development Research*, 2019 May;80(3):343-352.
11. Molecular modeling, spectrofluorimetric, and tandem mass spectrometric analysis reveal a competitive binding of Amlodipine and Rosuvastatin to plasma albumin: Insight into drug-drug interaction. Mohamed Saleh Elgawish, Moustafa K. Soltan, Mahmoud M. Sebaiy. *Microchem. J.* 149: (2019) <https://doi.org/10.1016/j.microc.2019.104014>
12. Developing a High Performance Liquid Chromatography (HPLC) Method for Simultaneous Determination of Oxytetracycline, Tinidazole and Esomeprazole in Human Plasma. Mahmoud M. Sebaiy, Wafaa S. Hassan, Mostafa E. Elhennawy. *J. Chromatogr. Sci.* 57(8): 724-729 (2019) <https://doi.org/10.1093/chromsci/bmz046>.

13. Developing a Highly Validated and Sensitive HPLC Method for Simultaneous Estimation of Oxytetracycline, Tinidazole and Esomeprazole in Their Dosage Forms. Mahmoud M. Sebaiy, Wafaa S. Hassan, Monir Z. Saad, Mohsen M. Zareh, Mostafa E. Elhennawy. *Austin J. Anal. Pharm. Chem.* 6(1): 1112 (2019).
14. Potential Role of Sulfur Nanoparticles as Antitumor and Antioxidant in Mice. *Der Pharmacia Lettre.* Faten Zahran, Mustafa Hammadi, Muayad Al-dulaimi, Mahmoud M. Sebaiy. 10(5): 7-26 (2018).
15. Introducing FDA Validation Guidelines for the Spectrophotometric Determination of Olopatadine Hydrochloride in Pure Form and Eye Drops. Mahmoud M. Sebaiy, Magda M. El-Henawee, Hisham E. Abdellatef, Mustafa Kh. Alshuwaili. *Der Pharmacia Lettre.* 10(1): 45-57 (2018).
16. "Methylene Bridge" to 5-HT Receptor Antagonists: Conformationally Constrained Phenylguanidines. Ahmed S Abdelkhalek, Genevieve S Alley, Osama I Alwassil, Shailesh Khatri, Philip D Mosier, Heather L Nyce, Michael M White, Marvin K Schulte, Małgorzata Dukat. *ACS Chem Neurosci* 2019 Mar 8;10(3):1380-1389.

b. Conference participation & attendance:

- Dr. Mohamed Baraka, 2nd ICPASU International Conference of the Faculty of Pharmacy, Ain Shams University 13-15 Nov2018. Novotel Cairo Airport hotel.
- Dr. Mohamed Baraka, Second International Pharma Conference Helwan University(2nd IPC 11-12Sep. 2018
- Dr. Mohamed Baraka, 5th National conference of National Authority for Quality Assurance and accreditation for Education 22- 23 April 2018 Cairo, Egypt.
- Dr. Mohamed Baraka, 2nd annual Arab International Pharmacy Conference 17-18 march 2018 at Hilton Heliopolis in Cairo, Egypt.
- Dr. Mohamed Baraka, Pharmacy Expo- Egypt 3-5 march 2018 at Fairmont Hotel in Cairo, Egypt.
- Dr. Mohamed Baraka, 10th National conference of Zagazig Faculty of Veterinary Medicine,Gardaka,12-15 Oct.2018.
- Dr. Mahmoud Sebaiy, Annual eighth Zagazig conference in Egypt on 20 April 2019 ‘’ Poster presentation’’.
- Dr. Ahmed Samy, Annual eighth Zagazig conference in Egypt on 20 April 2019 ‘’ Oral presentation’’.

c. *Training courses:*

- Dr. Mohamed Baraka, "Human Rights" workshop 19-9-2019
- Dr. Mohamed Baraka, "Requirements for administrative effectiveness to support sustainable development" Tiba Academy, 24-8-2019
- Dr. Mohamed Baraka. "OSPE and OSCE", 11-9-2019
- Dr. Mahmoud Sebaiy, HPLC & spectrophotometry, 15-7-2019

d. *Community service:*

- **Dr. Abdalla Alshanawany:** Visits of quality review and academic accreditation for different colleges in different universities.
- **Dr Mohamed Baraka:** Membership of the Pharmaceutical Society.
- **Dr Hend Kothayer:** Attendance of the youth conference in the administrative capital 2019
- **Dr Mahmoud Alsebaiey:** Supervisor of the Pharmacy Consulting Unit

12.2. Pharmaceutical Organic chemistry department:

a. *Publications:*

1. Synthesis of 2-Aryl- and 2-Haloarylbenzimidazole-N1-acetamido Conjugates and a Preliminary Evaluation of Their Antifungal Properties . Sherief M. Abdel-Wahab, Zakaria K. Abdelsamii, Hanan A. Abdel-Fattah, Abdallah S. El-Etrawy, Louise N. Dawe, Toreshettahally R. Swaroop, and Paris E. Georghiou. ChemistrySelect 2018, 3, 8106–8110.
2. Synthesis, antibacterial properties and 2D-QSAR studies of quinolonetriazole conjugates, Hassan M. Faidallah, Adel S. Girgis, Anand D. Tiwari, Hitesh H. Honkanadavar, Sean J. Thomas, Ahmed Samir, Atef Kalmouch, Khalid A. Alamry, Khalid A. Khan, Tarek S. Ibrahim, Amany M.M. AL-Mahmoudy, Abdullah M. Asiri, Siva S. Panda. European Journal of Medicinal Chemistry 143 (2018) 1524e1534

b. *Conference participation & attendance:*

- The 8th scientific conference- faculty of pharmacy-Zagazig university, 20/4/2019

d. Community service:

- Demonstrator Mohamed Mahmoud: Participation in a medical convoy in the tenth of Ramadan
- Visit of Students from Arab countries to the department **16/7/2019**.

12.3. Analytical chemistry department:

a. Publications:

1. A novel spectrofluorimetric method for determination of imatinib in pure, pharmaceutical preparation, human plasma, and urine”.Dalia W. Zidan, Wafaa S. Hassan, Manal S. Elmasry, Abdalla A. Shalaby. Luminescence.2018, 33,232–242.
2. “Utility of Cremophor RH 40 as a micellar improvement for spectrofluorimetric estimation of sorafenib in pure form,commercial preparation, and human plasma”.Dalia W. Zidan, Manal S. Elmasry,Wafaa S. Hassan, Abdalla A. Shalaby. Luminescence.2018, 33,326–335.
3. "High Performance Liquid Chromatographic estimation of pioglitazone hydrochloride and losartan potassium."Magda Mohamed Ayad ,HishamEzzatAbdellatef,Mervat Mohamed Hosny ,NaglaaAbdelSattarKabil, Main Group Chemistry 17(2018) 247-256.
4. “Development of Potentiometric Method for In Situ Testing of TerbinafineHCl Dissolution Behavior Using Liquid Inner Contact Ion-Selective Electrode Membrane” Mohamed K. Abd El-Rahman, Rania A. Sayed, Manal S. Elmasry, WafaaS. Hassan, AbadallaShalaby.Journal of The Electrochemical Society, 2018, 165 (3) B143-B149.
5. “Novel spectrophotometric and factor-based multivariate calibration-prediction techniques for determination of two inhibitors of hepatitis C-virus and hepatocellular carcinoma in pure, human urine, and human plasma” Dalia W. Zidan, Wafaa S. Hassan, Manal S. Elmasry,Abdalla A. Shalaby. SpectrochimicaActaPart A: Molecular and Biomolecular Spectroscopy, DOI : 10.1016/j.saa.2018.12.052
6. " Bioanalytical HPLC method development for simultaneous determination of valsartan and co-administered clopidogrelbisulfate and Fenofibrate in stroke prevention in raw materials, spiked human plasma and tablets".Gamal H. Ragab

- and Eman A. Bahgat. *Nova Biotechnologica et Chimica (Sciendo)*. 2018, 17(2):140-149.
7. " Spectrophotometric Microdetermination of Methyldopa and Etilerfrine Hydrochloride using Copper (II)-Neocuproine Reagent in Pure Form and Pharmaceutical Formulations". Afaf A Abdel-Monem and Eman A Bahgat. *Der Pharmacia Lettre (Scholars Research Library)*. 2018, 10(8): 17-32
 8. "Microdetermination of Carvedilol and Aripiprazole Using Haematoxylin Dye in Pure Form and Pharmaceutical Formulations Using Spectrophotometry." Afaf Aboul-kheir Abdel-monem and Eman Ahmed Bahgat. *International Research Journal of Pharmacy*. 2018, 9 (11):12-18.
 9. " Conductometric Determination of the Two Angiotensin-Converting Enzyme Inhibitors, Ramipril and Enalapril Maleate in Pure Form and in Tablets Using Phosphotungestic Acid". Afaf Aboul-Khier Abdel-Monem and Eman Ahmed Bahgat Assaf. *Innovare Journal of Medical Sciences*. 2018, 6 (1):1-5.
 10. "Development of bioanalytical HPLC method for simultaneous determination of the antialzheimer, donepezil hydrochloride and the antidepressant, citalopram hydrobromide in raw materials, spiked human plasma and tablets dosage form." G. H. Ragab and E. A. Bahgat. *Annales Pharmaceutiques Françaises (Elsevier)*. 2019, 77(2):112-120.
 11. "Development of HPLC Method coupled with Fluorescence Detection for Simultaneous Determination of Donepezil HCl and Trazodone HCl in Spiked Human Plasma and Tablets dosage forms "G. H. Ragab and E. A. Bahgat. Accepted for publication in *Annales Pharmaceutiques Françaises (Elsevier)*.
 12. "Conductometric Determination of Losartan Potassium Using Phosphotungestic Acid, Bromocresol Purple, Mercury (II) Chloride and Cupric Chloride as Reagents". Afaf Aboulkheir Abdelmonem and Eman Ahmed Bahgat. Accepted for publication in *Innovare Journal of Medical Sciences*.
 13. "Six Sigma quality approach for HPLC-UV method optimization", Ahmed M. Ibrahim, Hassan A.M. Hendawy, Wafaa S. Hassan, Abdalla Shalaby, Heba M. El-sayed, *Microchem. J.* 144(2019) 303-308. DOI: <https://doi.org/10.1016/j.microc.2018.09.023>.
 14. "Voltammetric method for simultaneous determination of ascorbic acid, paracetamol and guaifenesin using a sequential experimentation strategy", Ahmed M. Ibrahim, Hassan A.M. Hendawy, Wafaa S. Hassan, Abdalla Shalaby, Heba M.

El-Sayed, Microchem. J. 145 (2019) 428-434. DOI:
<https://doi.org/10.1016/j.microc.2018.11.010>.

15. " Response surface and tolerance analysis approach for optimizing HPLC method ", Ahmed M. Ibrahim, Hassan A.M. Hendawy, Wafaa S. Hassan, Heba M. El-Sayed, AbdallaShalaby, Microchem. J. 146 (2019) 220-226. DOI:
<https://doi.org/10.1016/j.microc.2019.01.007>.
16. " Data on validation using accuracy profile of HPLC-UV method", Ahmed M. Ibrahim, Hassan A.M. Hendawy, Wafaa S. Hassan, AbdallaShalaby, Heba M. El-Sayed, Data Brief 24(2019), 103877. DOI:
<https://doi.org/10.1016/j.dib.2019.103877>
17. "Determination of Atenolol and Trimetazidine in Pharmaceutical Tablets and Human Urine Using a High Performance Liquid Chromatography-Photo Diode Array Detection Method." AbdallaShalaby, Magda Y. El-Mamml, Omnia A. Ismaiel and Walaa El-Alfy, International Journal of Analytical Chemistry, vol. 2019, Article ID 9625849, 8 pages, 2019.

b. Conference participation & attendance:

- Attendance at The 8th scientific conference of pharmacy students, 19-3-2019
- Participation in The 8th scientific conference- faculty of pharmacy-Zagazig university, 27-3-2019

c. Training courses:

- "electronic exams" 14/10/2018
- " structured student assessment" 21/10/2018
- " how to write a course specification and course report"" 29/10/2018
- National Academic Standards for Pharmaceutical Education, 29/9/2018
- Quality standards in the teaching process, 13-14/1/2019

d. Community service:

Prof. Mervat Hosney: Vice Dean for Environmental Affairs and Community Service

12.4. Pharmacognosy department:

a. Publications:

- 1- Eman F Ahmed, Amany A Sleem, Fawkeya A Abbas, Azza M El-Shafae , Maher M El-Domiatty. Phytochemical Constituents, HPLC-PDA-ESI-MS/MS Profile and Bioactivities of Roots and Rhizomes of *Prosopis farcta* (Banks & Sol.) J. F. Macbr.), *The Natural Products Journal*, 2019, 9:1.
- 2- Wafaa H. B. Hassan, Mohamed Salaheldin. A. Abdelkader, Entesar El Senosy, SamihI. Eldahmy, In vitro Propagation and Essential Oils Composition with Cytotoxicity of *Daucuscapillifolius*Gilli (Apiaceae), *International Journal of Chem Tech 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- Ahmed M. Mustafa ,Samih I. Eldahmy,Giovanni Caprioli,Massimo Bramucci, Luana Quassinti,Giulio Lupidi,Daniela Beghelli,Sauro Vittori &Filippo Maggi.Chemical composition and biological activities of the essential oil from *pulicariaundulata* (L.) C. A. Mey. Growing wild in Egypt, *Natural Product Research*, 2018.
- 5- Samih I El-Dahmy, Afaf E Abdel-Ghani, Rasha A Attia and Doaa D Abouelenein.Chemical composition and biological activities of the essential oil of *Tanacetumsinaicum* Del. grown in Egypt,*Journal of Pharmacognosy and Phytochemistry*, 2019.
- 6- Tawfeek, N.; Sobeh, M.; Hamdan, D.I.; Farrag, N.; Roxo, M.; El-Shazly, A.M.; Wink, M. (2019). Phenolic Compounds from *Populusalba* L. and *Salix subserrata* Willd. (Salicaceae) Counteract Oxidative Stress in *Caenorhabditis elegans*. *Molecules* 24, 1999.doi.org/10.3390/molecules24101999.
- 7- Mahmoud M. Abdel-Aal, Azza M. El-Shafae, Maged M. Abou-Hashem, Abd El-monem M. Ateya and Mona Fekry. Bioguided screening for cytotoxic active constituents of *Cuminumcyminum* volatile oil, *Zagazig J. Pharm. Sci.*, 2018.
- 8- Samia S. Hafez, Wafaa H. B. Hassan, Dalia I. Hamdan* and Mai M. Karousa.FLORAL AND EXTRAFLORAL NECTARIES OF MORUS

MACROURA MIQ. (FAMILY. MORACEAE) CULTIVATED IN EGYPT, EJPMR, 2019.

- 9- Mansour Sobeh , Mona F. Mahmoud, Mohamed A.O. Abdelfattah, Haroan Cheng, Assem M. El-Shazly, Michael Wink(2018). A proanthocyanidin-rich extract from *Cassia abbreviate* exhibits antioxidant and hepatoprotective activities in vivo. *Journal of Ethnopharmacology* 213, 38-47.doi.org/10.1016/j.jep.2017.11.007
- 10- Sobeh M, Mahmoud MF, PetrukG,Rezq S, Ashour ML, Youssef FS, El-Shazly AM, Monti DM, Abdel-Naim AB and Wink M (2018). *Syzygiumaqueum*: 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
- 11- 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 (2018). Tannin-rich extracts from *Lanneastuhlmannii* and *Lannea humilis* (Anacardiaceae) exhibit hepatoprotective activities in vivo via enhancement of the anti-apoptotic protein Bcl-2. *Scientific Reports* 8:9343 | DOI:10.1038/s41598-018-27452-8
- 12- Ghareeb M.A., Sobeh M. ,Rezq S., El-Shazly A.M., Mona F.M., Wink M. (2018). HPLC-ESI-MS/MS profiling of polyphenolics of a leaf extract from *Alpinia zerumbet* (Zingiberaceae) and its anti-inflammatory, anti-nociceptive, and antipyretic activities in vivo. *Molecules*, 23(12),3238;https://doi.org/10.3390/molecules23123238
- 13- 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 (2019).
- 14- Sobeh M, Mahmoud MF, Hasan RA, Abdelfattah MAO, Osman S, Rashid H, El-Shazly AM, Wink M. (2019). Chemical composition, antioxidant and hepatoprotective activities of methanol extracts from leaves of *Terminalia bellirica* and *Terminalia sericea* (Combretaceae). *PeerJ*:e6322 DOI 10.7717/peerj.6322
- 15- Sobeh M.,El-Raey M., Rezq S., Abdelfattah M. O. A, Petruk G., Osman S., El-Shazly A. M., El-Beshbishyh H. A., Mahmoud M. F., Wink M. Chemical profiling of secondary metabolites of *Eugenia uniflora* and their antioxidant, anti-

- inflammatory, pain killing and anti-diabetic activities: A comprehensive approach. *Journal of Ethnopharmacology* 240 (2019) 111939
- 16- Fatma Abd-elkader Moharram, Amal Amin Al-Gendy, Siham Mostafa El-Shenawy, Bassant M. Ibrahim and Mohamed A. Zarka Moharram et al. Phenolic profile, anti-inflammatory, antinociceptive, anti-ulcerogenic and hepatoprotective activities of *Pimentaracemosa* leaves *BMC Complementary and Alternative Medicine* (2018) 18:208
- 17- 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; Volume 26, Issue 7, 2018, 1060-1067
- 18- 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 β -amyrinin 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.
- 19- 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*, 2019; 12, 377-387.
- 20- Hanan Al Youssef , Wafaa H. B. Hassan et al. Quantification of two biomarker compounds by a validated high-performance thin-layer chromatographic method from different extracts of *Pluchea dioscoridis* growing in Saudi Arabia 2019 *Journal of Planar Chromatography - Modern TLC* 32(3):243-249.
- 21- Efficacy of alcoholic extract of *Thymus vulgaris* on experimental Schistosomiasis: Histopathological and Histochemical study; *Life Science Journal* 2019;16(5)
- 22- Therapeutic efficacy of *Thymus vulgaris* and *Myristica fragrans* (nutmeg) ethanolic extracts against toxoplasmosis in murine model; *J. Egypt. Soc. Parasitol. (JESP)*, 49(1), 2019: 73- 79.
- 23- Yin, Z.; Lu, J.; Meng, S.; Liu, Y.; Mostafa, I.; Qi, M. and Li, T. (2019) Exogenous melatonin improves salt tolerance in tomato by regulating photosynthetic electron

flux and the ascorbate-glutathione cycle. Journal of plant interactions. 14, 453-463.

b. Conference participation & attendance:

- Attendance of The 8th scientific conference- faculty of pharmacy-Zagazig university, 20/4/2019
- The First National Conference of Pharmaceutical Sciences - Drug Development - from lab to user, faculty of pharmacy- Menoufia university, 11-12/8/2018

c. Training courses:

- Strategic Planning for Higher Education
- National Academic Standards for Pharmaceutical Education, 26/9/2018

d. Community service:

- **Prof. Maher Aldommiaty:** Chairman of the Pharmaceutical Studies Sector Committee
- **Prof. Assem Alshazly:** reviewer at the National Authority for Quality Assurance and Accreditation
- **Dr. Rasha Adel:**
 - Director of the Training and Continuous Education Unit of the Faculty of Pharmacy Consulting Center
 - Member of the Environment Committee for 2018-2019
 - Participation in the convoys of the project of the development of the village of Tel Rosen - Belbeis Center - Sharkia and adopted by the University of Zagazig by giving a lecture on “the medical and therapeutic uses of plants and herbs” on **9/7/2019**
 - Supervising the ideal student competition 2018-2019
 - Coordinator of the Social Committee and trips of the Students Union 2018-2019

12.5. Pharmacology department:

a. Publications:

- 1- Hesperidin protects against stress induced gastric ulcer through regulation of peroxisome proliferator activator receptor gamma in diabetic rats, Shimaam.Elshazly, DaliaM.Abd El Motteleb, Islam A.A.E-H.Ibrahim, 8/2018, Chemico-Biological Interactions.

- 2- Beta-caryophyllene protects against diet-induced dyslipidemia and vascular inflammation in rats: Involvement of CB2 and PPAR- γ receptors Dareen A. Youssef, Hassan M. El-Fayoumi, Mona F. Mahmoud, 10/2018, *Chemico-Biological Interactions*
- 3- PPAR gamma agonist, pioglitazone, rescues liver damage induced by renal ischemia/reperfusion injury, Shima Elshazly, Eman Soliman, 10/2018, *Toxicology and Applied Pharmacology*.
- 4- Menthalongifolia alleviates experimentally induced angina via decreasing cardiac load Ahmad S. Azhar, Hany M. El-Bassossy, Hossam M. Abdallah. 10/2018, *Food Biochemistry*.
- 5- Beta-caryophyllene alleviates diet-induced neurobehavioral changes in rats: The role of CB2 and PPAR- γ receptors, Dareen A. Youssef, Hassan M. El-Fayoumi, Mona F. Mahmoud, 11/2018, *Biomedicine & Pharmacotherapy*
- 6- Enhanced calcium entry via activation of NOX/PKC underlies increased vasoconstriction induced by methylglyoxal Basma G. Eid, Alaa T. Abu-Sharib, Hany M. El-Bassossy, Khadijah B. Alama, Sergey V. Smirnov, 11/2018, *Biochemical and Biophysical Research Communications*
- 7- HPLC-ESI-MS/MS Profiling of Polyphenolics of a Leaf Extract from *Alpinia zerumbet* (Zingiberaceae) and Its Anti-Inflammatory, Anti-Nociceptive, and Antipyretic Activities In Vivo, Mosad A. Ghareeb, Mansour Sobeh, Samar Rezaq, Assem M. El-Shazly, Mona F. Mahmoud and Michael Wink, 12/2018, *Molecules*
- 8- Glycyrrhizic acid and silymarin alleviate the neurotoxic effects of aluminum in rats challenged with fructose-induced insulin resistance: possible role of toll-like receptor 4 pathway Noura M. Ali, Amr A. A. Mahmoud, Mona F. Mahmoud & Hassan M. El-Fayoumi, 1/2019, *Journal Drug and Chemical Toxicology*
- 9- Chemical composition, antioxidant and hepatoprotective activities of methanol extracts from leaves of *Terminalia bellirica* and *Terminalia sericea* (Combretaceae) Mansour Sobeh, Mona F. Mahmoud, Rehab A. Hasan, Mohamed A.O. Abdelfattah, Samir Osman, Harun-or Rashid, Assem M. El-Shazly, Michael Wink 2/2019 *PeerJ — the Journal of Life and Environmental Sciences*
- 10- Renal Oxidative Stress and Inflammatory Response in Perinatal Cyclosporine-A Exposed Rat Progeny and its Relation to Gender Hany M. El-Bassossy, Mohammed A. Hassanien, Abdulhadi Bima, Fatma M. Ghoneim, and Ayman Zaky Elsamanoudy, 3/2019, *Journal of Microscopy & Ultrastructure*

- 11- Albiziaanthelmintica: HPLC-MS/MS profiling and in vivo anti-inflammatory, pain killing and antipyretic activities of its leaf extract Mansour Sobeh,Samar Rezq,Omar M.Sabry,Mohamed A.O.Abdelfattah,Mohamed A.ElRaey,Walaa A.El-Kashak,Assem M.El-Shazly, Mona F.Mahmoud, Michael Wink, 4/2019,Biomedicine & Pharmacotherapy
- 12- Chemical profiling of secondary metabolites of Eugenia uniflora and their antioxidant, anti-inflammatory, pain killing and anti-diabetic activities: A comprehensive approach, Mansour Sobeh,Mohamed El-Raey,Samar Rezq, Mohamed A.O.Abdelfattah,Ganna Petruk,Samir Osman,Assem M. El-Shazly, Hesham A.El-Beshbishy, Mona F.Mahmoud, Michael Winka,5/2019,Journal of Ethnopharmacology
- 13- Cinnamaldehyde protects from methylglyoxal-induced vascular damage: Effect on nitric oxide and advanced glycation end products Mayada Mohammed Tarkhan Khadijah Saeed Balamsh Hany Mohammed El-Bassossy,5/2019,Food Biochemistry
- 14- Characterization of phenolic compounds from Eugenia supra-axillaris leaf extract using HPLC-PDA-MS/MS and its antioxidant, anti-inflammatory, antipyretic and pain killing activities in vivo Nesrine M. Hegazi, Mansour Sobeh, Samar Rezq, Mohamed A. El-Raey, Malak Dmirieh, Assem M. El-Shazly, Mona F. Mahmoud & Michael Wink 7/2019 Scientific reports
- 15- Effects of diosmin and crocin on metabolic syndrome-associated cardiovascular complications in ratsRania El-Fawal,Hassan M. El Fayoumi&Mona F. Mahmoud,7/2019, Naunyn-Schmiedeberg's Archives of Pharmacology
- 16- AjwaNanopreparation Prevents Doxorubicin-Associated Cardiac Dysfunction: Effect on Cardiac Ischemia and Antioxidant Capacity,Soad Al-Jaouni,, Seham Abdul-Hady,Hany El-Bassossy,7/2019,Integrative Cancer Therapies

b. Conference participation & attendance:

- Connecting minds **11-2-2019** Participation by 4 oral presentation and one lecture.

12.6. Biochemistry department:

a. Publications:

1. Elseweidy MM, Elswefy SE, Younis NN, Tarek S. Contribution of aorta glycosaminoglycans and PCSK9 to hyperlipidemia in experimental rabbits: the role of 10-dehydrogingerdione as effective modulator. *Molecular biology reports*. 2019;46(4):3921-8.
2. Elseweidy MM, Mohamed HE, Elrashidy RA, Atteia HH, Elnagar GM, Ali AE. Potential therapeutic roles of 10-dehydrogingerdione and/or pentoxifylline against calcium deposition in aortic tissues of high dietary cholesterol-fed rabbits. *Molecular and cellular biochemistry*. 2019;453(1-2):131-42.
3. Elseweidy MM, Elswefy SE, Younis NN, Tarek S. The modulation of PCSK-9 and GAGs by 10-dehydrogingerdione and pentoxifylline in hyperlipidemic rabbits. *Natural product research*. 2018:1-6.
4. Elseweidy MM, Mohamed HE, Elrashidy RA, Atteia HH, Elnagar GM. Inhibition of Aortic Calcification by Policosanol in Dyslipidemic Rabbits Is Enhanced by Pentoxifylline: Potential Role of PCSK9. *Journal of cardiovascular pharmacology and therapeutics*. 2018;23(6):551-60.
5. Elseweidy MM, Amin RS, Atteia HH, El-Zeiky RR, Al-Gabri NA. New Insight on a Combination of Policosanol and 10-Dehydrogingerdione Phytochemicals as Inhibitors for Platelet Activation Biomarkers and Atherogenicity Risk in Dyslipidemic Rabbits: Role of CETP and PCSK9 Inhibition. *Applied biochemistry and biotechnology*. 2018;186(4):805-15.
6. Elseweidy MM, Askar ME, Elswefy SE, Shawky M. Nephrotoxicity Induced by Cisplatin Intake in Experimental Rats and Therapeutic Approach of Using Mesenchymal Stem Cells and Spironolactone. *Applied biochemistry and biotechnology*. 2018;184(4):1390-403.
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Alzheimer disease in rats. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*. 2018;107:1166-74.

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

11. Arafa MH, Atteia HH. Protective Role of Epigallocatechin Gallate in a Rat Model of Cisplatin-Induced Cerebral Inflammation and Oxidative Damage: Impact of Modulating NF-kappaB and Nrf2. *Neurotoxicity research*. 2019.

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14. Arafa MH, Atteia HH. Genetic polymorphisms of cytochrome P450 2D6 (CYP2D6) are associated with long term tramadol treatment-induced oxidative damage and hepatotoxicity. *Toxicology and applied pharmacology*. 2018;346:37-44.

15. Hasan AA, von Websky K, Reichetzedder C, Tsuprykov O, Gaballa MMS, Guo J, et al. Mechanisms of GLP-1 receptor-independent renoprotective effects of the dipeptidyl peptidase type 4 inhibitor linagliptin in GLP-1 receptor knockout mice with 5/6 nephrectomy. *Kidney international*. 2019;95(6):1373-88.

16. Zhang X, Dong Y, Sun G, Hasan AA, Tian M, Zeng S, et al. Paternal Programming of Liver Function and Lipid Profile Induced by a Paternal Pre-Conceptional Unhealthy Diet: Potential Association with Altered Gut Microbiome Composition. *Kidney & blood pressure research*. 2019;44(1):133-48.

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18. von Websky K, Hasan AA, Reichetzedder C, Tsuprykov O, Hoher B. Impact of vitamin D on pregnancy-related disorders and on offspring outcome. *The Journal of steroid biochemistry and molecular biology*. 2018;180:51-64.

19. Ou Q, Jacobson Z, Abouleisa RRE, Tang XL, Hindi SM, Kumar A, et al. Physiological Biomimetic Culture System for Pig and Human Heart Slices. *Circulation research*. 2019;125(6):628-42.

20. Mohamed TMA, Ang YS, Radzinsky E, Zhou P, Huang Y, Elfenbein A, et al. Regulation of Cell Cycle to Stimulate Adult Cardiomyocyte Proliferation and Cardiac Regeneration. *Cell*. 2018;173(1):104-16 e12.

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. *Cell*. 173(1):104-116.e12

b. Conference participation & attendance:

- Attendance of The 8th scientific conference- faculty of pharmacy-Zagazig university, 19/3/2019
- Attendance of The 8th student scientific conference- faculty of pharmacy-Zagazig university, 27/3/2019

c. Training courses

- E-learning, Faculty and Leadership Development Center, Zagazig University, 22-24 / 7 / 2018
- Basics of bioinformatics, Faculty and Leadership Development Center, Zagazig University, 29-30/ 7 / 2018
- Scientific writing and reference management by endnote, Faculty and Leadership Development Center, Zagazig University ,7 -8 / 8 /2018
- International publication of scientific research, Faculty and Leadership Development Center, Zagazig University, 12-13/ 8 / 2018
- Use of technology in teaching, Faculty and Leadership Development Center, Zagazig University, 14-15/ 8 / 2018
- Strategic Planning, Faculty and Leadership Development Center, Zagazig University,21-22/1/2019
- Ethics of scientific research, Faculty and Leadership Development Center, Zagazig University,23-24/1/2019
- Manage the research team, Faculty and Leadership Development Center, Zagazig University,19-20/2/2019

- Use global databases and manage and organize scientific references and avoid plagiarism, Faculty and Leadership Development Center, Zagazig University, 9-10/7/2019

d. Community service:

- Prof. Sahar Al-Swaifi: Visits as quality reviewer and academic accreditation for different faculties in different universities.
- Ass. Prof. Nahla Younis: Supervisor of the Laboratory of Molecular Biology and a member of the Committee on Environmental Affairs and Community Service.

12.7. Microbiology & Immunity department:

a. Publications:

1. Relationship between Sap prevalence and biofilm formation among resistant clinical. Kadry A. A, El-Ganiny A. M, El-Baz A. M., 11/2018, African Health Sciences
2. Factors affecting Salmonella-based combination immunotherapy for prevention of type 1 diabetes in non-obese diabetic Hussein MI, Du W, Mbongue J, Lenz A, Rawson J, Kandeel F, Ferreri K., 11/2018, Vaccine.
3. Glyceryl trinitrate blocks staphyloxanthin and biofilm formation in Staphylococcus aureus, Hisham A Abbas, Ahmed M El sherbini, Moutaz A Shaldam, 1/2019, African Health Sciences
4. Repositioning secnidazole as a novel virulence factors attenuating agent in Pseudomonas aeruginosa, Moustafa M Saleh, Hisham A Abbas, Momen M Askoura, 2/2019, Microbial pathogenesis.
5. Zinc oxide nanoparticles inhibits quorum sensing and virulence in Pseudomonas aeruginosa, Moustafa M Saleh, Sadeq Refa't A, Hemat K Abdel Latif, Hisham Abbas, Momen Askoura, 2/2019, African Health Sciences
6. Reversal of New Onset Type 1 Diabetes by Oral Salmonella-Based Combination Therapy and Mediated by Regulatory T-Cells in NOD Mice, Jacques C. Mbongue Jeffrey Rawson, Pablo A. Garcia, Nelson Gonzalez, Jacob Cobb, Fouad Kandeel, Kevin Ferreri, Mohamed I. Hussein, 2/2019, Frontiers in immunology

7. Competition in the chaperone-client network subordinates cell-cycle entry to growth and stress, David F Moreno, Eva Parisi¹, Galal Yahya, Federico Vaggi, Attila Csikasz-Nagy , Mart´ Aldea, 4/2019, Life science alliance
8. Elimination of multidrug-resistant *Proteus mirabilis* biofilms using bacteriophages
Salwa Gomaa, Fathy Serry, Hemmat Abdellatif, Hisham Abbas 6/2019, Archives of Virology
9. Impact of specific inhibitors on metallo- β -carbapenemases detected in *Escherichia coli* and *Klebsiella pneumoniae* isolates, Hisham A Abbas, Ashraf A Kadry, Ghada H Shaker, Reham M Goda, 7/2019, Microbial pathogenesis
10. Extended spectrum β -Lactamase production and the Co-existed antibiotic resistance among the clinical isolates of *Escherichia coli* and *Klebsiella pneumoniae*, Ashraf A. kadry, Amira M. El-Ganiny, Wafaa E. El-Arab, May A. El-Anrawy, 9/2019, Journal of Chemical, Biological & Physical Sciences
11. Study on increased antimicrobial resistance among bacteria isolated from ICUs Zagazig University Hospitals Shaimaa Ibrahim Nazeih ; Fathy Serry; Hisham Abbas June 2019, Zagazig Journal of Pharmaceutical Sciences

b. Conference participation & attendance:

- Attendance of The 8th scientific conference- faculty of pharmacy-Zagazig university, April 2019, 3 posters and one oral presentation

c. Training courses

- Course and program specifications and courses and evaluation of learning outcomes for faculties and institutes of higher education, QA unit, Zagazig University, 1-3/8/ 2019 & 29-31/8 /2019
- Self-evaluation for faculties and institutes of self-education, QA unit, Zagazig University, 1September 2019
- TOFEL Review Course 30/8/2019-23/9/2019
- National Academic Standards for Pharmaceutical Education, faculty of pharmacy, 26/9/2018
- Scientific writing of researches and references using Endnote, , Faculty and Leadership Development Center, Zagazig University, 19 -20/ 2 /2019 & 14-15 / 5 /2019

- International publication of scientific research, Faculty and Leadership Development Center, Zagazig University, 24-25/ 2 / 2019 & 21- 22/5/2019
- Effective presentation skills, Faculty and Leadership Development Center, Zagazig University, 10-11 / 3 / 2019 & 8-9 /9/ 2019.
- Time and meetings management, Faculty and Leadership Development Center, Zagazig University, 24-25/3/2019
- Credit Hours System, Faculty and Leadership Development Center, Zagazig University, 2-3/4/2019
- Exam systems and student assessment, Faculty and Leadership Development Center, Zagazig University, 3-4/7/2019
- Prepare competitive research funding projects, Faculty and Leadership Development Center, Zagazig University, 9-10/7/2019
- Preparation of university lecturer, Faculty and Leadership Development Center, Zagazig University, 27/7-1/8/2019

c. Community service:

- Participation in medical convoys (Ass. Lecturer, Noor Hassan Al-Kashef and demonstrator Iman Mahmoud Gharib on Sunday, 11-11-2018)
- Participation in awareness campaigns in the village of Rosen-Belbeis (Ass. Lecturer Noor Hassan Al-Kashef in a seminar entitled “hepatitis” ,18-6-2019

12.8. Pharmaceutics department:

a. Publications:

- 1- Ibrahim T.M., Abdallah M.H., El-Megrab N.A. and El-Nahas H.M. “Transdermal ethosomal gel nanocarriers; a promising strategy for enhancement of anti-hypertensive effect of carvedilol”. *Journal of Liposome Research*. 2019; 29 (3): 215-228.
- 2- Ibrahim T.M., Abdallah M.H., El-Megrab N.A. and El-Nahas H.M. “Upgrading of dissolution and anti-hypertensive effect of Carvedilol via two combined approaches: self-emulsification and liquisolid techniques”. *Drug Development and Industrial Pharmacy*. 2018; 44 (6): 873-885.
- 3- Ibrahim T.M., Abdallah M.H., El-Megrab N.A. and El-Nahas H.M. “Self-emulsifying drug delivery formulations”. *Zagazig Journal of Pharmaceutical Sciences*. 2018; 27 (1): 1-21.

- 4- EmanGomaa, Amr S. Abu Lila, Azza A. Hasan, Fakh-eldin S. Ghazy. Preparation and characterization of intravaginal vardenafil suppositories targeting a complementary treatment to boost in vitro fertilization process, *European Journal of Pharmaceutical Sciences* 111 (2018) 113–120.
- 5- Amal M. Abd El Razek, Azza A. Hasan, Shereen A. Sabry, Mahmoud A. Mahdy, Eslam E. Hamed. Metoclopramide hydrochloride thermally sensitive rectal in situ gelling system, a novel out-patient treatment for vomiting in pediatric age, *Journal of Drug Delivery Science and Technology* 50 (2019) 9–17.
- 6- Amal M. Abd El Razek, Azza A. Hasan, Shereen A. Sabry, Mahmoud A. Mahdy, Eslam E. Hamed. Metoclopramide hydrochloride loaded oral wafers for postoperative care of children: in vitro and in vivo evaluation, *Am. J. PharmTech Res.* 9(02) 2019 188-207
- 7- Shereen Ahmed Sabry. Sodium Cromoglycate Mucoadhesive Buccal Patches: Design, Fabrication, In Vitro and In Vivo Characterization. *International journal of applied pharmaceutics*, 2018; 10 (2): 76-82.
- 8- Shereen Ahmed Sabry. 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*, 2018; 11 (7): 97-104.
- 9- Rabab A. Hussein, Amr S. Abu Lila, Marwa H. Abdallah, Hanaa A. El-ghamry. "Fast disintegrating tablet of Valsartan for the treatment of pediatric hypertension: In vitro and in vivo evaluation" *Journal of Drug Delivery Science and Technology* vol 43 pp 194–200 (2018)
- 10- Rabab A. Hussein, Amr S. Abu Lila, Marwa H. Abdallah, Eslam E. Hamed, Hanaa A. El-ghamry "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* vol 47 pp 395–403 (2018)
- 11- Dina M. Abdelnabi, Marwa H. Abdallah and Hanaa A. Elghamry. Buspirone Hydrochloride Loaded In Situ Nanovesicular Gel as an Anxiolytic Nasal Drug Delivery System: In Vitro and Animal Studies". *AAPS PharmSciTech* (2019) 20: 134.
- 12- Margrit M. Ayoub, Neveen G. Elantouny, Hanan M. El-Nahas and Fakh-eldin S. Ghazy. Review Article: A New Design Technique for Treatment of Chronic

Hepatitis-B. International Journal of Trend in Research and Development, Volume 6(3), May – June 2019 ISSN: 2394-9333.

- 13- 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 Sciences. 118. 2018.

b. Conference participation & attendance

- The 8th Scientific Conference of Faculty of Pharmacy, **20th Apr. 2019**, Faculty of Pharmacy, Zagazig University
- The Fifth FUE International Conference of Pharmaceutical Sciences. **28-30th Jan. 2019**. Faculty of Pharmacy, Future University.
- 2nd Annual Pharmacology Department Conference, **February 2019**, Faculty of Pharmacy, Zagazig University
- 6th International Conference organized by NAQAAE entitled: Quality Assurance in Education: International planning-Regional Implementation, **June 2019**. NAQAAE , Cairo, Egypt.
- controlled release society, **July 2019**, Spain

c. Training courses

- “Preparation of assistant lecture” **27 Jul.-1 Aug. 2019**, Faculty and Leadership Development Center, Zagazig University
- “Credit Hours System” **5-6 Feb. 2019**, Faculty and Leadership Development Center, Zagazig University
- “SPSS” **3-4 Feb. 2019** Faculty and Leadership Development Center, Zagazig University
- “International Publication of Scientific Research”, **27-28 Jan. 2019**, Faculty and Leadership Development Center, Zagazig University
- “Scientific Writing and References Management”, **20-21 Jan. 2019**, Faculty and Leadership Development Center, Zagazig University
- “E-Learning”, **13-14 Jan. 2019**, Faculty and Leadership Development Center, Zagazig University
- “Self-Evaluation of Higher Education Institutes”, **3-5 Jan. 2019**, National Authority for Quality Assurance and Accreditation of Education
- External audition- skills and secrets, **June 2019**, NAQAAE, Cairo, Egypt

- Self- Assessment for Faculties in Higher Education, **July 2019**. NAQAAE, Cairo, Egypt.
- Exam/ Questions Bank Preparation, **July 2019**. Zagazig University, Zagazig
- External Audition for Faculties in Higher Education, **August 2019**, NAQAAE, Cairo, Egypt
- 6th International Conference organized by entitled: Quality Assurance in Education: International planning-Regional Implementation, **June 2019**. NAQAAE, Cairo, Egypt.
- Workshop entitled: External audition- skills and secrets, **June 2019**, NAQAAE, Cairo, Egypt,.
- E-Portfolio and Assessment, **September 2018**, Faculty of pharmacy Zagazig university
- Structured student assessment, **October 2018**, Faculty of pharmacy Zagazig university

d. Community service:

- Participation in the medical visit to the village of Tel Rosan to increase health awareness entitled “Analgesics abuse” & “diarrhea in infants” **10/9/2019**
- Participation in the organization of the graduation ceremony for the batch No. 40 at Zagazig University Stadium on **14/10/2018**
- Participation in the electoral committees of the Sharkia Syndicate of Pharmacists
- pharmacovigilance lectures to the employees of NEXT PHARMA EGYPT Company during **2018-2019**

12.9. Pharmacy practice department:

a. Publications:

- 1- ABCB1 rs2032582 Genotype is not associated with LDL-c Reduction among Egyptians -----Research was published in International Journal of Trend in Research and Development (IJTRD)
- 2- Alaa A. Radwan, HanaaElghamry, Salem Eldeeb. ABCB1 rs2032582 Genotype is not Associated with LDL-c Reduction among Egyptians"International Journal of Trend in Research and Development, Volume 6(1), ISSN: 2394-9333.

b. Conference participation & attendance

- The 8th Scientific Conference of Faculty of Pharmacy, **20th Apr. 2019**, Faculty of Pharmacy, Zagazig University

c. Training courses:

- “SPSS” Faculty and Leadership Development Center, Zagazig University
- “International Publication of Scientific Research”, Faculty and Leadership Development Center, Zagazig University
- “The Use of global databases and management of scientific references and avoidance of plagiarism” Continuous Education and Training Unit
- “MICIT“ Continuous Education and Training Unit
- “Course writing scientific using Endnote” Faculty and Leadership Development Center, Zagazig University
- “Effective presentation skills” Faculty and Leadership Development Center, Zagazig University
- "electronic exams" **14/10/2018**, Faculty of pharmacy Zagazig university
- " How to write a course specification and course report”, **29/10/2018**, Faculty of pharmacy Zagazig university
- “structured student assessment” ,**21/10/2018**, Faculty of pharmacy Zagazig university
- Self- Assessment for Faculties in Higher Education, **18-20/10/2018**. QA unit, Zagazig Univrsity
- “Exam systems and student assessment” **10-11/7/2018** ,Faculty and Leadership Development Center, Zagazig University

d. Community service:

- Participation in the medical visit to the village of Tel Rosan to increase health awareness entitled “Analgesics abuse” & “diarrhea in infants” **10/9/2019**
- Participation in the organization of the graduation ceremony for the batch No. 40 at Zagazig University Stadium on **14/10/2018**

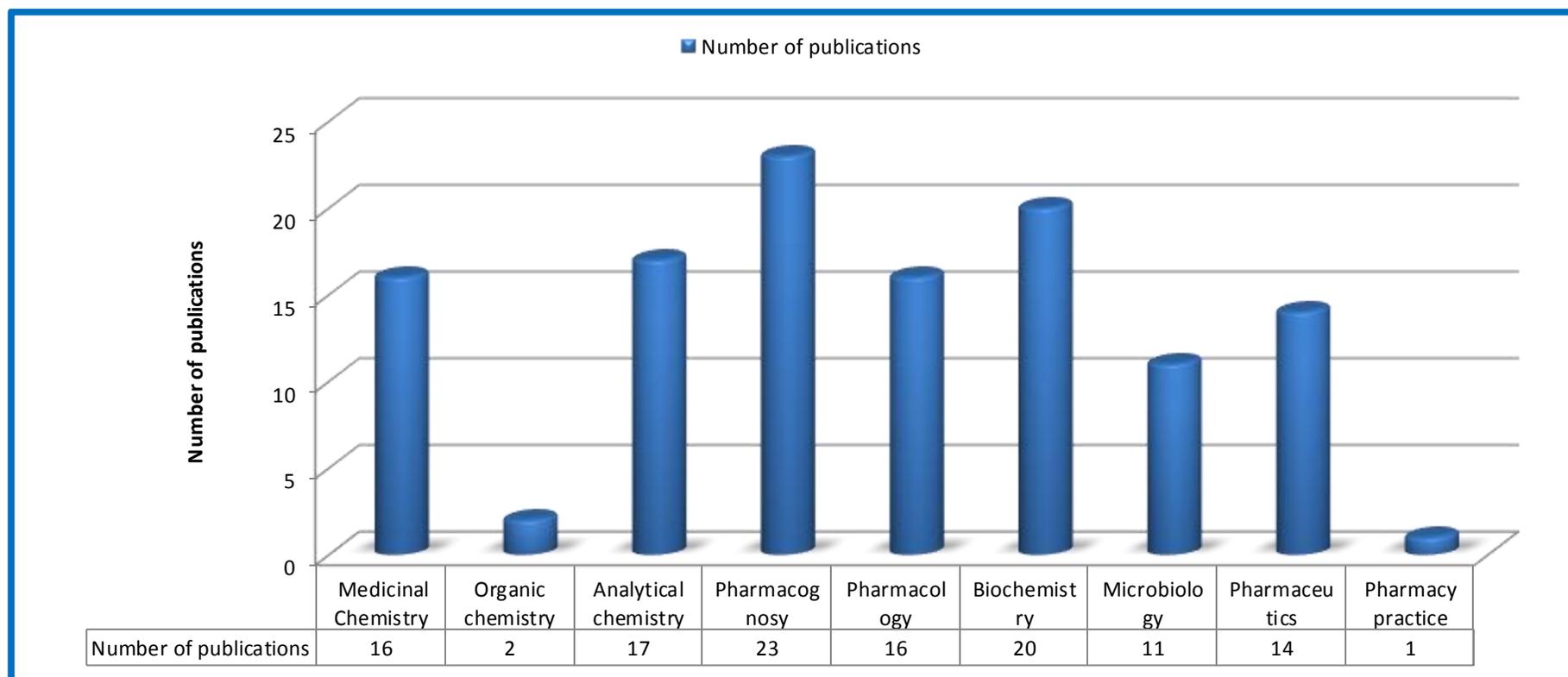


Figure 12: Distribution of publication activity between different departments in Faculty of Pharmacy.

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:

- Participation in the faculties league of football hold at Faculty of engineering, 22/10/2018
- Participation in the faculties league of table tennis hold at Faculty of Science, 27/10/2018
- Participation in the internal sports league of individual and group games, hold at Faculty of Sport education for girls, 3/11-19/12/2018.
- Faculty team achieved 1st place in Internal football league (male)
- Faculty team achieved 2nd place in Internal league (female)
- Faculty team achieved 3rd place in Internal football league (female)
- Faculty team achieved 3rd place in Internal handball league (female)
- Student/ Rawia Basiony won the 1st place in the Shot Put Internal league (female).
- Student/ Nehal Mamdouh won the 3rd place in the Shot Put Internal league (female).
- Student/ Ahmed Saied won the 3rd place in the Shot Put Internal league (male).
- Student/ Rawia Basiony won the 1st place in Javelin throw Internal league.
- Student/ Aya Mohsen won the 2nd place in Karate Internal league.
- Student/Moaz Samy won the 2nd place in Athletics 200 meters
- Faculty team achieved 1st place in Internal football quintet league (Western Sector Activities)
- Student/Marina Ashraf won 2nd place in chess league (Western Sector Activities)
- Student/Mariam Naguib won 2nd place in chess league (The Social Festival)
- Student/Eman Salam won 3rd place in chess league (The Social Festival)

- Sports Day in cooperation with the World Health Organization and the Institute of Leadership Development on Sunday 24/2/2019, and achievement of:
 - ✓ First place football quintet (male)
 - ✓ Second place volleyball (female)
 - ✓ Third place football quintet (female)

b. Social relations subunit:

- Blood donation campaign, 25-26/11/2018.
- Organization of graduation ceremony of batch 40 of Faculty of Pharmacy, Zagazig University, 29/9/2018.
- Participation in The Fourth Social Festival, Faculty of Art, 20/10-20/11/2018
- Participation in the celebrations of the glorious victories of 6th of October, the grand University ceremony hall, 27- 31/10/2018.
- Participation in the 6th Friendship Festival, General Administration of Student Welfare, 17/11- 22/11/2018.
- Organising a Trip to Dahab, 31/1-2/2/2019.
- Organizing the Faculty ideal student competition Sunday 28/2/2019 and the winners were:
 - ✓ Ideal male student: Mohab Ali Abdel-Kawy (2nd year)
 - ✓ Ideal female student: Marina Ashraf Fouad (5th year)
- Participation in the Social Research Competition in cooperation with Helwan University on “studying the effects of the divorce phenomenon on the family and the Egyptian society with a statement of its reasons and ways to avoid risk”. Student / Marina Ashraf Fouad participated and awarded 1st place in the competition.
- Announcement of the second Egyptian universities scientific conference under the auspices of Dr. Khaled Abdel Ghaffar, Minister of Higher Education entitled “Future Scientists 3”, 17-18 / 4/2019 to be held at Damietta University.
- Organising a trip to St. Catherine on a mid- year vacation.
- Organising a trip to Cairo and visit to Heliopolis factory on 20/10/2019

c. Art subunit:

- Participation in the competition of cultural activity (poetry - general information league), Faculty of Art, 21/10/2018
- Presentation of the play of the Faculty of Pharmacy (one-chapter) theatre competition entitled “cobbler king”, University Forums Hall, 15/12/2018
- Arabic calligraphy workshop from 24/2/2019 and for 15 days.
- Participation in the play of the three chapters presented on 24/4/2019 .
- Lectures to prepare students to practice different types of calligraphy to discover talents.
- Holding a Carnival for student activities includes (poetry - singing - religious singing - art gallery - painting drawing - chess competition - table tennis - entertaining games - wrestling - football skills - Playstation) as well as the work of a blood donation campaign for hospitals in Zagazig University and that day 25/3/2019

d. The cultural subunit:

- Holding the Book Fair on 17/11/2019
- Participation in the competition of cultural activity (poetry – general information league), faculty of Art, 21/10/2018 and achievement of:
 - ✓ Student/ Ibtesam Sabry Mohamed won the 1st place in poetry
 - ✓ Student/ Mariam Melad Naguib won the 3rd place in Lyric poetry
 - ✓ Student/ Abdalla Fayeze won the 2nd place in Religious singing
 - ✓ Student/ Iriny sedhom won the 2nd place in Wall Magazine
- Participation in the exploration of literary, cultural and religious talents (creativity 7), General Administration of Student Welfare, 13/10- 15/11/2018
- Participation in the religious competition for Holy Quran and hadith in the , 17-18 / 3/2019
- Holding a competition for cultural talents (geniuses) on 12/3/2019 and achievement of:
 - ✓ Student/ Ahmed Hazem Mohamed won the 1st place
 - ✓ Student/ Nehal Mamdouh won the 2nd place in
 - ✓ Student/ Hosney Ahmed Hosney won the 3rd place
- A course of “ photoshop – PowerPoint” -,16 / 2-21 / 2/2019
- Organising a trip to the book fair
- Holding a book exhibition in the faculty ,20 / 2-20 / 3/2019

e. Science and Technology subunit:

- Organization the 8th student scientific conference, 27/3/2019
- Organizing a trip to Hospital 5757 during March 2019
- Arranging a workshop entitled " Marketing public speaking", 4/4/2019 - 7/4/2019

f. The families' subunit:

- Organizing the Families Festival (Tug of war , arm wrestling, chess) at the faculty of pharmacy
- Participation in the refresher course for families, General Administration of Student Welfare, 4/11- 8/11/2018
- Participation in the competition of the Holly Quran and religious singing, Faculty of medicine, 22/11/2018 and achievement of:
 - ✓ Student/ Ahmed Fawzy Ragab won the 7th place
 - ✓ Student/ Mohamed Adel Ibrahim won the 8th place
- Organizing a symposium "Egypt: response and challenge", 26/2/2019
- Organizing a seminar on "constitutional amendments", 19/2/2019
- Participation in the annual festival of student families, 3-7/3/2019
- Arranging a "cinema day" , 25/2/2019
- Awarding the 2nd place in the public information competition students: (Ahmed Hazem Mohammed - Abdullah Ahmed Radwan - Mohab Ali Abdel Qawi

g. The scout subunit:

- Arranging a reception camp for new and old students, 24/9/2018.
- Hosting the Committee of Scout Friendship Festival for Faculty Scouts and University Scouts within the activities of the western sector, 18/11/2018
- Scout Clans Festival, Faculty of sports education of girls, 30/9/2018
- Organization of the Scout Festival for Faculty scouts and university scouts titled (Pharmacy gathering us) in the presence of 12 faculties on 27/2/2019 and under a full coverage of the fourth channel.
- Preparation for the participation in the Guide Scout Festival for the university faculties held at Faculty of Veterinary Medicine, 27 / 3-3 / 4/2019.

13.2. Environment 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.

Organization of different events:

- Arranging an orientation day for the newly admitted students, 22-9-2018.
- Orientation day in the presence of the faculty Administration and the President of the University and Vice Presidents of the University for education, students, graduate studies, research, community service and environment development, faculty staff members and new students, 24-9-2018.
- Organizing College beautification week to improve the faculty environment before the beginning of the academic year by the faculty students.
- The annual employment forum (job fair) sponsored by some pharmaceutical companies and Ultra Medical Laboratory and arranging training opportunities for pharmacy students in the summer vacation. 28-11-2018
- Participation of some pharmaceutical companies and the Sharqya pharmacy syndicate in the student scientific conference, March 2019
- Participation of some pharmaceutical companies and the Sharqya pharmacy syndicate in the scientific conference of the faculty, April 2019
- Annual Ramadan Iftar was hold in the college in the presence of a number of public and syndicate figures. 1/6/2019
- The General Conference of Faculty of Pharmacy, Zagazig University, 30/4/2019.
- A training program entitled “Marketing public speaking” organised by the Students’ society & support unit and under the supervision of the Vice Dean for Education and Student Affairs, 7/4/2019
- Awareness campaign in cooperation with the Ministry of Health entitled “Dissemination of the role of awareness and education to prevent infectious diseases and reduce the spread of hepatitis viruses”, March 2019
- Orientation of students about different fields of field training with the participation of pharmaceutical industry and a representative of the Drug Control Authority, 4-5-2019

- Active participation of the faculty in the development of the village of Rosen-Belbeis-Sharkia by giving weekly awareness seminars for three months till 15-9-2019:- “Hepatitis” , “Diabetes”, “Nutrition (food before medicine)”, “The use of medicinal herbs”, “The risks of using medicines without a prescription”, “The use of NSAIDs”, “Food and cancer prevention”, “Dangers of the use of preservatives”, “Proper nutrition for chronic disease patients”, “Water purification and clean drinking water”, “Diarrhoea in children”

Student visits:

- Training of A Jordanian student for one month at different departments of the faculty, 8-8-2018
- The visit of The English Language School Students and administrative staff to the faculty and educate students on some medical topics such as proper nutrition and optimal use of medicine and medicinal herbs, 7-3 -2019
- The visit of a number of Yemeni students to the faculty departments, EPICO, and Zagazig university hospitl in the framework of student exchange with Arab universities. July-August 2019

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.
- Training was conducted for students on the evacuation plan and the preparation of a report on 25-3-2019.
- Training course on security and safety measurments was conducted for administrators on 26-3-2019

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 |
|------------------------|---|---------------------------------------|-------------------------------------|------------------------|-----------|
| 22 | Assiss Prof. Gehan Balata | Students | 29/8/2018 | Drug management cycle | 1 |
| 29 | • Dr. Mahmoud Alsebaiey • Dr. Yasmine Ahmed Sharaf | Demonstrators & postgraduate students | 14/2/2019 21/2/2019 27/2/2019 | HPLC | 2 |
| 6 | Dr. Mahmoud Alsebaiey | Demonstrators & postgraduate students | 17/ 7/ 2019 | HPLC | 3 |
| 39 | Dr. samar Rizq | Students | 30/10/2018 | How to write C.V | 4 |

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:

- Kom hellin village, 3/7/2018
- Alalakma, 11-11-2018
- 10th of Ramadan, 28-11-2018
- Halyed & Shalaten , 11-2018
- Kafr Alshaweesh, 21-12-2018

Others:

- Organization of two Blood Donation Campaigns in cooperation with with Zagazig University hospitals. 25/11/2018 and 25/3/2019
- Faculty of Pharmacy students participated in a campaign of “100 million health” 3/3/2019 till the campaign ended.

13.3. Postgraduate studies & Research:

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

- Scientific Seminars organized to develop the capabilities of researchers:
 - ✓ Post graduate Students and Researchers Day, 3/2019
 - ✓ Zjps work shop, 17/9/2019
 - ✓ Workshop for students of the Faculty of Pharmacy to develop research skills, 24/9/2019
- The approval of the Supreme Council of Universities to amend the name of the Diploma of Biochemical Analysis to become a Professional Diploma in Biochemistry and Laboratory Analysis Ministerial Decree No. (1840) , 30/5/2019
- Approval of the faculty Council No. 736, 9/9/2019 on the application of the financial and administrative regulations for graduate studies in the faculty on the summer semester, Ministerial Decree No. (544) ,14/2/2019

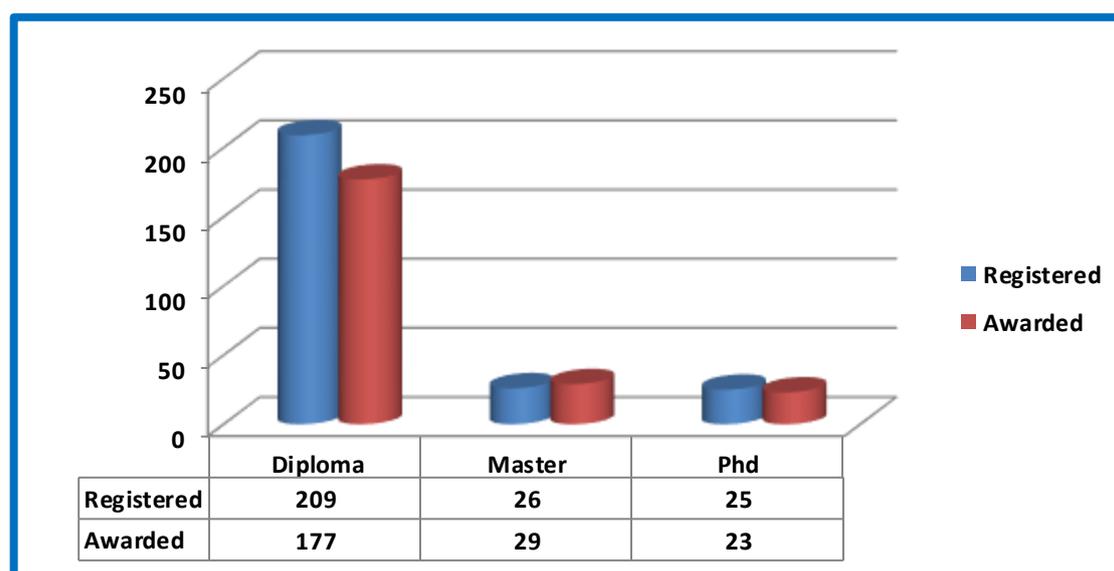


Figure 13: Number of registered students and awarded different postgraduate degrees including clinical pharmacy diploma, master and PhD degrees.

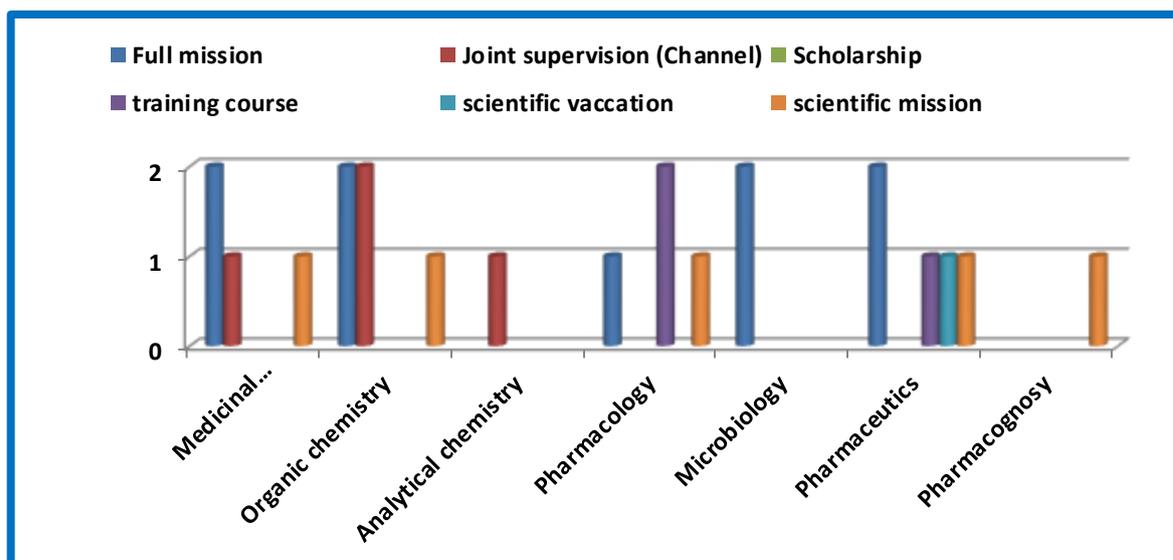


Figure 15: Number and distribution of postgraduate students in scholarships.

➤ *The faculty scientific journal:*

The Journal was uploaded to the Egyptian Knowledge Bank

➤ *Organization of The 8h Scientific Conference of Faculty of Pharmacy “New horizons in pharmaceutical research”, 20/4/2019:*

150 attendees, 6 oral presentations and 14 posters

Project management unit:

Conducted workshops:

- “Science & technology development fund (STDF) Grants & Criteria for successful application”, Prof. Dr: Hany El-Bassossy, 9/10/2018
- “Basic & applied research grants”, Prof. Dr: Hany El-Bassossy, 4/11/2018
- “Research support & technology development Grant (RSTDG)”, Prof. Dr: Hany El-Bassossy, 22/11/2018
- “STDF grants for Accredited Centers of Scientific Excellence” (STDF-ASCE), Prof. Dr: Hany El-Bassossy, 21/1/2019, 27/1/2019 and 4/2/2019

Submitted proposals:

- Prof. Hanan El Nahas, Kaempferol PLGA nanoparticles long acting natural remedy: A potential treatment for rheumatoid arthritis, Innovation Grants (September 2018).
- Dr. Samar Rizq, Implication of vitamin D3 in the protective effect of commonly used anti-diabetic drugs against metabolic syndrome or type 2 diabetes-induced complications Reintegration Grants (September 2018)
- Prof. Hany El-Bassossy, Novel antihypertensive pharmaceutical formula containing natural ingredients ready for clinical testing Innovation Grants (September 2018)
- Prof. Hany El-Bassossy, Cardio-protective pharmaceutical formula Leaders in Innovation Research Grant (November 2018)
- Dr Islam Ahmed Ibrahim, G-protein coupled receptors biased agonists and gene therapy: New promising treatments for the type 2 diabetes Basic and applied Grants (November 2018)
- Prof. Hany El-Bassossy, Pharmaceutical Sciences Research and Development Center Accredited Centers of Scientific Excellence (STDF-ASCE),(February 2019)

Running Projects:

- Prof. Hany El-Bassossy, Cardio-protective pharmaceutical formula Leaders in Innovation Research Grant, (November 2018).

Rewards of international publication (2018):

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.

| | First 10% | Q1 | Q2 | Q1 SJR | Citation | Chapter In Book |
|-----------------------------|-----------|----|----|--------|----------|-----------------|
| 1 st affiliation | 3 | 7 | 13 | 7 | | |
| 2 st affiliation | 1 | 10 | 3 | | 1 | 2 |

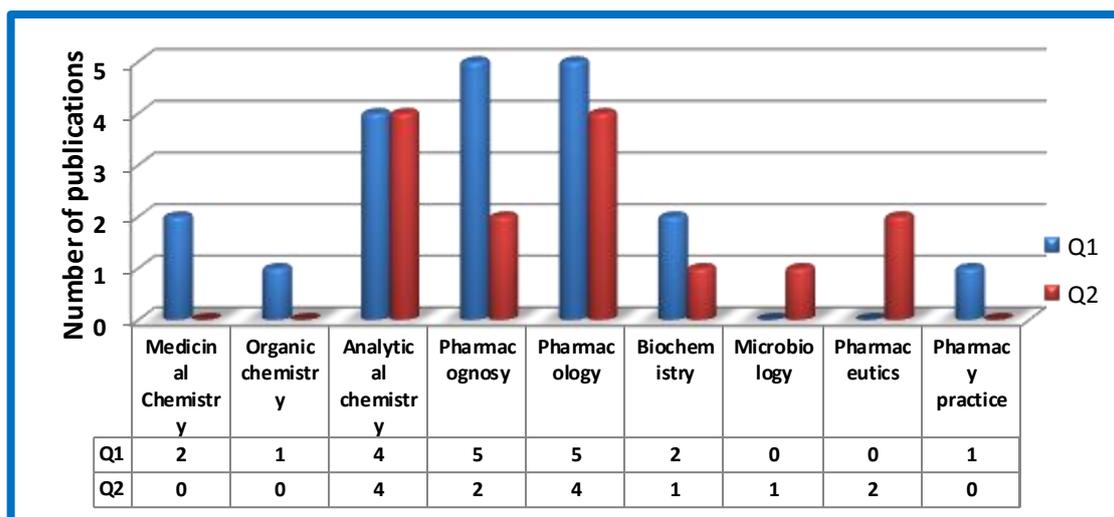


Figure 15: Distribution of international publication rewards among different departments.

14. Priorities for improvement:

- Infrastructure renewal of the departments
- Lack of adequate microscopes in the departments of microbiology and pharmacognosy.
- The need for well designed research labs equipped with modern equipment
- Increase the budget for research
- lack of the necessary chemicals for students and research
- Lack of furniture for faculty members and their assistants
- poor ventilation of laboratories
- Financial support for community service and environmental development activities is almost non-existent and activities are self-financing
- Development of programs with application of modern teaching methods

Appendix



Opening ceremony of the fourth floor in faculty of pharmacy for clinical pharmacy students under the patronage of Dr. Khaled Abdel Ghaffar, Minister of Higher Education, President of the University, Dr. Khaled Abdel Barry and the Secretary of the Supreme Council of Universities, Dr. Mohammed Latif.

صيدلة الزقازيق تكرم عميدها السابق

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Recognition ceremony of Faculty dean (Prof. Mohamed Barka) for his retiry.



Faculty Beautification Week



Orientation Day for the newly admitted students



Job Fair (28/11/2018)



Iftar Ramadan (1/6/2019)



Faculty of pharmacy participation in the development of village of Rosen-Belbeis-Sharkia

