



M. H. Mohyeldin

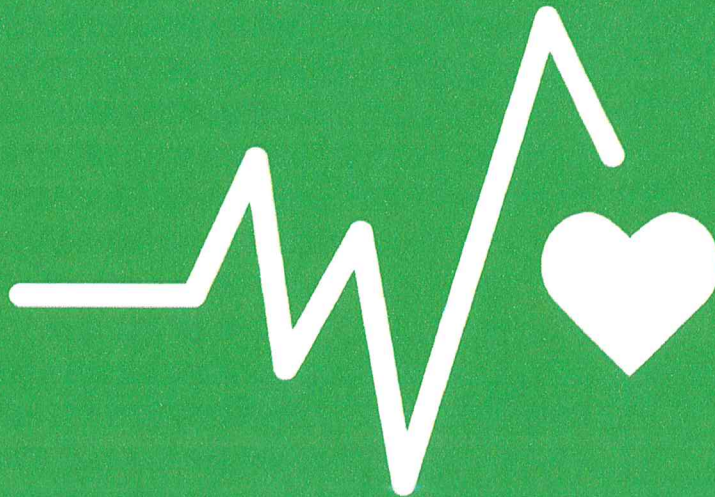


THE IMPACT RANKING

SDG3

GOOD HEALTH AND WELL-BEING

**3 GOOD HEALTH
AND WELL-BEING**



SDG 3 – Good Health

Major progress has been made in improving the health of millions of people, increasing life expectancy, reducing maternal and child mortality, and fighting against leading communicable diseases. Concerted efforts are required to achieve universal health coverage and sustainable financing for health, to address the growing burden of non-communicable diseases, including mental health, and to tackle antimicrobial resistance and determinants of health such as air pollution and inadequate water and sanitation. Pharos University has records in this regard including aid convoys, different health initiatives, conferences and seminars, activities of Pharos university clinics, local national and international cooperation and international research publications. Below is a summary of Pharos University achievements in the health sector.

3.1. Conferences / Workshops and Seminars:

- The faculty of Dentistry participated in the “AEEDC Cairo Education Conference and Exhibition” which was held at the Royal Maxim Palace Kempinski Hotel in the 5th Settlement – Cairo on 12-14 December. The AEEDC Cairo Education Conference and Exhibition is considered one of the highly specialized scientific and educational events dedicated to dentistry professionals in Egypt and the wider MENA region. It also discusses the most important issues and the latest developments in the field. The PUA dental students visited the AEEDC exhibition where they got apprised of the state-of-the-art dental equipment and materials. It is worth mentioning that PUA dental students presented many research papers in this conference.



<https://www.pua.edu.eg/a-visit-to-aeedc-education-cairo-conference-and-exhibition/>

- The faculty of Dentistry participated in the Egyptian Dental Exhibition (EDE 2020) on Thursday, 13 February 2020 in at Cairo International Convention Centre (CICC). The trip aimed at apprising the PUA delegation which included a number of faculty members, teaching assistants and students of different academic years of the state-of-the art equipment and technology in general and in the field of dentistry in particular.



<https://www.pua.edu.eg/the-faculty-of-dentistry-organized-a-trip-to-the-egyptian-dental-exhibition/>

- On 21 March 2019, the faculty of Pharmacy organized a workshop on "First Aid". The workshop addressed the general procedures of first aid for casualties and how to deal with exceptional cases for saving lives e.g. handling burns, Fainting and cases of artificial respiration



- The Faculty of Pharmacy and Drug Manufacturing at Pharos University organized a symposium entitled "OTC from A to Z" on Tuesday, 3 March 2020. The lecture was delivered by Dr. Magdy Shalash, the Director of El Taybey Academy for Pharmaceutical Training and Dr. Sally Ibrahim, the Head OTC Department at El Taybey Academy for Pharmaceutical Training. It is worth mentioning that the symposium discussed the following points: How the pharmacist deals with different cases of chronic Arthritis? How to dispense medicines without medical prescription and what are these OTC drugs? What are the cases that should be directly referred to a physician not a pharmacist? <https://www.pua.edu.eg/otc-from-a-to-z-symposium/od>

- In cooperation with Eva Pharma company, The faculty of Pharmacy organized a campaign on healthy nutrition. Within this event, a side activity was held to measure the percent of body fats and the body water content using "Inbody" devices. A lecture was delivered to raise the awareness of students on healthy food and nutritional healthy trends

- On 8 March 2019, the faculty of Pharmacy organized a to the local community in EZBET Al Fetaa on general health conditions campaign. The campaign included measuring the blood sugar level, body fats and how to avoid hypertension. The campaign included also awareness about cancer and potential occurrence.

- The Faculty of Pharmacy held its biannual Conference on Pharmacology in the spring semester of the academic year 2019-2020. The conference was carried out under the auspices of the president of the university, and is supported by several pharmaceutical companies and AUF agency of



2nd PUA International Conference
"Multidisciplinary Approaches in Pharmaceutical Sciences"
 Faculty of Pharmacy & Drug Manufacturing
 Pharos University in Alexandria, Alexandria, Egypt

ICMAPS 2020
 11th - 12th March

Under the patronage of
 Eng. Alaa Ragab
 Chairman of PUA Board of Trustees
 Prof. Mahmoud Mohy Eldin
 President of Pharos University
 Prof. Maged El-Ghazouly
 Dean of Faculty of Pharmacy & Drug Manufacturing
 Conference Chairman
 Prof. Soad Toaima
 Vice Dean for Graduate Studies & Research
 Conference Secretary General

France. The conference was attended by about 300 expert and researcher, where 102 scientific papers were presented, and published in the conference booklet after being reviewed. International attendees were from France, Finland, Sweden, and Canada. Selected scientific presentations in the conference included:

- Nutrition in Clinical Practice
- The Road from Pharmaceutical Sciences to Patient Care Approach
- Vaccine Nanotechnology; Frontiers and Challenges
- Antibiotic Resistance: A Global Crisis That Requires Out of- The-Box Solutions
- Advanced Therapeutic Approaches in Managing Diabetic Foot Ulcer
- Burden of Helicobacter pylori Infections and Associated Risk Factors among Cases of Iron Deficiency Anemia in Egypt
- Public Knowledge and Attitudes Towards Antibiotic Usage: A Cross-Sectional Study Among the General Public in Alexandria
- Cross Sectional Study: General Features of Food Allergy in Alexandria
- The Impact of Rising Drug Prices in Egypt
- The Future of Pharma from Evolution to Revolution.
- Documenting Mistakes in Governmental Hospital Pharmacies in Alexandria, Egypt

<https://www.pua.edu.eg/icmaps/>

- On 22 November 2019, the faculty of pharmacy organized a campaign on heart diseases and the relation between the function of the heart and the rest of the body organs. The campaign concentrated on the chronic heart diseases and how to deal with them and avoid them.
- The faculty of Physical Therapy organized a seminar entitled “Advanced Management of Spinal Cord Injuries” on Tuesday, 10 December 2019. The seminar’s keynote speaker was Dr. Mahmoud Yasser, a Spinal and Orthopedic Surgery Consultant who addressed the following points: The advanced treatment methods of spinal cord injuries. Showing examples of x-rays of people who had accidents. The role of physical therapy in following cases after surgery and helping in patients’ rehabilitation.

<https://www.pua.edu.eg/advanced-management-of-spinal-cord-injuries/>



- The faculty of Physical Therapy organized the 1st scientific forum of “Biomechanics” on Tuesday, 24 December 2019 in the Student Theater. The forum included 15 biomechanical models. These models showed a cross section of the body explaining the relation between the muscles and bones and its impact on the body mechanics. The models also showed the surfaces and axes that joints of the body move around. In addition, the representatives of each group of students talked about their projects and the materials used in this project. It is worth mentioning that the students took the principles of sustainable development into consideration by recycling old materials used in the design of previous models, including plastic spoons, empty cups, fiber and wood.



<https://www.pua.edu.eg/the-faculty-of-physical-therapy-hold-the-first-scientific-forum-of-biomechanics/>

- The Faculty of Applied Health Sciences Technology organized a symposium to raise the awareness of coronavirus on Tuesday, 10 March 2020. The symposium was delivered by Dr. Mohamed Salah El Din, an Assistant Professor of Biochemistry and Immunity in the Medical Laboratory Department. The symposium explained the modes of the coronavirus transmission, its symptoms and methods of protection.

<https://www.pua.edu.eg/the-faculty-of-applied-health-sciences-technology-organized-a-symposium-about-coronavirus/>



- Students of Medical Equipment Maintenance Department (Faculty of Applied Health Sciences Technology) have won the third place in the “Pandemic TechHack – Egypt 2020” Competition out of 40 participating ideas which was held on Tuesday, 15 April 2020. The competition is a part of “The Egyptian Virtual Hackathon Against Coronavirus” which is a national initiative to unite efforts and resources using technology and science to: Confront the epidemic.

Help reduce the spread of the virus in Egypt.

Find the technological solutions necessary for dealing with the resulting risks in the case of virus outbreak.

It is worth mentioning that this competition is one of the innovation and entrepreneurship competitions which are managed under the supervision of the Academy of Scientific Research and Technology, the U.S Embassy, the Egyptian Ministry of Health and Population and the American University in Cairo.



The participating students developed a Smart Coronavirus Mask “SCM” using a 3D design program. The SCM is for protection and early detection of COVID-19 and also sending the results to a mobile application that can automatically display and update the health status of the mask user.

<https://www.pua.edu.eg/pharos-university-won-the-third-place-in-pandemic-techhack-egypt-2020-competition/>

- The faculty of Mass Communication organized a symposium entitled “ The Role of Media in Combating Drug Abuse” on Tuesday, 3 December 2019. In the symposium the psychological and physical effects of drugs on the addict was discussed. The types of drugs and the general dangers of drug abuse and addiction and its psychological effects in particular were also highlighted. The following topics were discussed: the constructive and destructive roles of mass media in this issue, the procedures that should be followed in addressing this issue. At the last section of the symposium, freshmen presented some ideas of a campaign to be launched under the name of “Towards No Drug Abuse” accompanied by some videos.

<https://www.pua.edu.eg/the-role-of-media-in-combating-drug-abuse/>


3.2. Activities:

- The faculty of Pharmacy has established a specialized center for international publication consultation and nanotechnology in 2019. Since its opening, the center carried out about 200 research consultation including electronic ones. The manager of the center has signed 7 international MOUs for international publication, one of which is already published in the highest 5% ranked journals according to JCR. The MOUs are with:
 - Laboratory for Molecular Design of Pharmaceutics, Faculty of Pharmaceutical Sciences,
 - Hokkaido University Japan



- Department of Internal Medicine and Medical Specialties, University of Genoa, Genoa, Italy
 - Department of pharmaceuticals; faculty of pharmacy; Damanhur University
 - Department of pharmaceuticals; Alexandria university
 - <https://www.pua.edu.eg/continuing-education/international-publication-nanotechnology-consultation-center-incc/>
- PUA-Faculty of Pharmacy participates in the alliance with a subproject entitled “Galanthamine / Chitosan Complex Nanoparticles: Form Bench to Bedside”. The current project aims at conducting a complete pharmacokinetic/pharmacodynamic study in Alzheimer’s disease animal model; which should be the starting point of transforming this prototype nanoparticle system from bench to bedside, offering better patient compliance, therapeutic outcomes, and decreased galantamine dose; thus lower production cost.
<https://www.pua.edu.eg/continuing-education/international-publication-nanotechnology-consultation-center-incc/>
- The Nutrition Department at the *Faculty of Allied Medical Sciences* launched “Healthy Campus Initiative” on Tuesday, 9 April, 2019. This initiative aimed at highlighting the profound impact of nutritional knowledge in eradicating health illiteracy. According to the findings of the researches conducted last year which showed low health and nutrition literacy, the main objective of this study is to raise the students’ nutritional and health awareness through informing the students the basic nutrients, their sources and functions as well as promoting conscious eating habits by using models of dietary guidance systems and healthy eating; traffic light system and healthy eating pyramid.
<https://www.pua.edu.eg/the-faculty-of-allied-medical-sciences-launched-a-healthy-campus-initiative/>
- The Faculty of Pharmacy held an awareness campaign on Blood pressure and heart diseases, and Osteoporosis among students of Pharos University on 5/3/2019, 22/11/2019 and 30/11/2019 respectively. Blood pressure and Blood sugar levels were measured during the campaign and used to serve the awareness activity.
<https://www.pua.edu.eg/the-faculty-of-allied-medical-sciences-launched-a-healthy-campus-initiative/>
- The Faculty of Pharmacy has established a project entitled : Integrated Pharmaceutical Alliance (IPA); towards production of technology based Egyptian Pharmaceutical products. The alliance is funded by the Academy of Scientific Research and Technology under the Egypt Research and Technology Alliances (EG-KTA) Program. Its general objective is the integration of pharmaceutical industry with academia, public sectors and Non-Governmental Organization (NGO) to deepen local manufacturing in pharmaceutical industries and increase its competitiveness.

Integrated Pharmaceutical Alliance

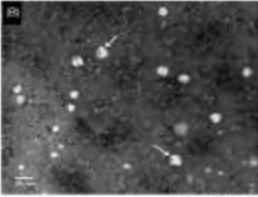
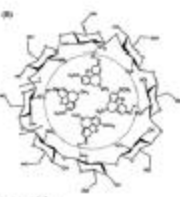


4- Pharos University in Alexandria (PUA)



Pharos University (PUA)
Faculty of Pharmacy & Drug Manufacturing
www.pua.edu.eg/ pharm@puu.alex.edu.eg

Dr. Maged El Ghazouly,
Dean & Prof. of Pharmacognosy, Faculty of Pharmacy
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- Production of Galantamine/ chitosan complex Nanoparticles

GH-loaded CE-AP2 nanoparticles (Pharos)



Integrated Pharmaceutical Alliance (IPA)



Applicant: 

Knowledge Partners:






Industrial Partners:




Private Sector:





ACKNOWLEDGMENT:
This alliance is funded by the Academy of Scientific Research and Technology under the "Egypt Research and Technology Alliances (EG-RTA) Program" <http://www.asrt.gov.eg/>






The alliance constitutes from different partners;

- 4 academic partners : German university(GUC), Pharos University in Alexandria (PUA) National Research Center (NRC), Arab Academy of Science, Technology and Martinme
 - 5 industrial partners : (El-Nasr, Memphis, Health Tech & ATOS),
 - 2 from public sectors
 - (NODCAR & Vacsera) and one NGO (Misr el Kheir)
- PUA-Faculty of Pharmacy participates in the alliance with a subproject entitled “Galanthamine / Chitosan Complex Nanoparticles: Form Bench to Bedside”. The current project aims at conducting a complete pharmacokinetic/pharmacodynamic study in Alzheimer’s disease animal model; which should be the starting point of transforming this prototype nanoparticle system from bench to bedside, offering better patient compliance, therapeutic outcomes, and decreased galantamine dose; thus lower production cost.

- The faculty of Dentistry sent an aid convoy teemed with dental personnel and supplies, to Al Hadayah Nursing Home on Wednesday, 26 February 2020. The PUA dental staff examined more than 100 male and female patients of the residents of the nursing home and provided them with free of charge treatment. The PUA dentists also gave the residents some tips of how to take care of their teeth. They also gave them toothpastes and tooth brushes as gifts from the faculty of Dentistry.

<https://www.pua.edu.eg/a-medical-aid-convoy-to-al-hadayah-nursing-home/>



- The faculty of Pharmacy and Drug Manufacturing launched a campaign to raise awareness about vitamin D on Tuesday, 10 December 2019 in the foyer of the faculty. This was held in cooperation with the faculty scientific committee. During the campaign, a number of leaflets that had many information about Vitamin D and its importance, were distributed. A group of the faculty students also introduced the faculty administrative staff and students of different faculties to the importance of Vitamin D, how to monitor its level in the body, the symptoms of its deficiency and the risks of increasing in its level in the body.

<https://www.pua.edu.eg/why-do-you-need-vitamin-d/>



- The faculty of Pharmacy and Drug Manufacturing organized a field trip to El Miri Hospital for the fourth-year students. The aim of the trip was to introduce the students to the clinical pharmacy applications in the hospital. The students visited the oncology department where chemotherapy drugs are prepared for patients, the radiotherapy department, the dialysis unit and the Total Parenteral Nutrition (TPN) Unit. The supervisors of these departments explained the role of hospital pharmacist in different departments and the procedures followed to ensure the quality of pharmacy services as well as the preventive measures to ensure occupational health in different departments.



<https://www.pua.edu.eg/a-field-trip-to-el-miri-hospital/>

- The faculty of Physical Therapy organized a trip to the National Institute of Neuromotor System on Thursday, 19 December 2019. The trip aimed to provide the students with the opportunity to identify different cases of mobility impairment, how to treat and follow them up. Firstly, the students took a tour in the institute to visit the neurological rehabilitation unit, the orthopedic unit and the pediatrics unit. Then, they went to the physical therapy building and visited the hydrotherapy department; a section which the institute is distinguished by all over Egypt. At the end of this tour, the students were introduced to the Splints and Artificial Limbs Factory and their different manufacturing phases.



<https://www.pua.edu.eg/a-trip-to-the-national-institute-of-neuromotor-system/>

- The faculty of Physical Therapy, in cooperation with Sonaa Al-Hayat student club, organized a visit to Mohamed Ragab Nursing Home on Tuesday, 10 December 2019. The students spent quality time with the residents and did many activities with them. At the end of the visit, the students distributed gifts, including mus'hafs, rosaries and decorated colored cups.



<https://www.pua.edu.eg/a-visit-to-mohamed-ragab-nursing-home/>

- The Faculty of Applied Health Sciences Technology organized a field trip for the students of the third and fourth year classes to El Shatby University Hospital for Children. This was held on Wednesday, 26 February 2020. During the visit, Associate Prof. Maha Youssef, the Head of the Hematology Unit escorted the delegation in a tour around the hospital different departments, including the Endocrinology Department, the Gastroenterology Department, the Hematology Department, the Dialysis Unit and the Reception. At the end of the visit, the delegation visited the university blood bank where the students were acquainted with the blood transfusion process, the apheresis technology and the apparatus used in it.



<https://www.pua.edu.eg/a-field-trip-to-el-shatby-university-hospital-for-children/>

- The Faculty of Applied Health Sciences Technology organized a campaign to raise the awareness of the faculty students about vitamin (D) deficiency on Tuesday, 10 March 2020. The campaign shed light on the importance of vitamin (D), its nutritional sources, the causes of its deficiency and deficiency tests. During the campaign, food and drinks rich with vitamin (D) were distributed.

<https://www.pua.edu.eg/raising-awareness-of-vitamin-d-deficiency/>



- The faculty of Tourism and Hotel Management made a video in Spanish for giving moral support to coronavirus patients in Egypt and Spain and urging them to stay home. A session was held on Saturday, 25 April 2020 to display the video which is considered a practical application of the course of “Spanish as a Second Language”.

<https://www.pua.edu.eg/a-video-for-supporting-coronavirus-patients-in-egypt-and-spain/>

Video link:

https://www.youtube.com/watch?reload=9&v=02UzstHuHs&feature=emb_title

- The faculty of mass communication produces a short film on a film called “Devetsia” demonstrating the environmental resources on land, water resources, desert ecosystem services regarding natural health treatments, and ecotourism in sustainable cities.
- <https://www.youtube.com/watch?v=sQrc2ufKFC4&list=PLsZ1HNiwxSAPBp9Ff74mHK1NbRVLcP-52&index=2>

3.3. MOUS with hospitals for Students Training :

- In 2019, the faculty of Pharmacy have signed several MOUS for cooperation between Pharos University and hospitals and pharmaceutical companies in Egypt with the aim of students training for the completion of their graduation these hospitals are:

Hospital Name with signed agreements	No of students	Company name	No of students
Mostafa Kamel Hospital	102	Pharco company	20

Alexandria University Hospital	102	Egyptian Pharmaceutical Company	16
Ras El Tin Hospital	71	El Burg for pharmaceutical industrial	15
Ministry of health hospitals	41	Seif Pharma	15
El Salama Hospital	40		
57357 Hospital Cairo	20		
57357 Hospital Tanta	71		
Tanta Center for cancer	10		
International center for Cardiology (ICC)	10		
Alexandria Vascular center AVC	10		
San Mary Hospital- Alex	12		
Zamzam Hospital - Alex	2		

3.4. Cooperation in Health Sector: Cooperation with Hospitals, NGOs and Private sector

- Pharos University cooperates with governmental and private national hospitals that belongs to the Ministry of Health in Alexandria and Beheria governorates. Training of students of the faculties of Pharmacy, dentistry, Applied health sciences and technology , and physical therapy are held in such hospitals.

List of governmental and Private hospitals in Alexandria and Beheria Governorates that cooperated with Pharos University for t students' raining and internships

Hospital Name	Purpose
Armed Forces Hospital- Mustafa Kamel	Internships
Naval Forces Hospital	Internships
General Military Hospital	Internships
Institute of Medical research hospital	Training and internships
Faculty of Medicine Hospital of Alexandria University	Training and research
America Hospital	Training
Ahmed Maher Hospital	Students Projects
Abou Kir Hospital	Training
Gomhoria Hospital	Training
El Qasr El Ainy Hospital	Training
Dekernis Hospital	Training
Police Hospital	Training
Abou Homous Hospital	Training
Wenget Hospital	Training
El Menshawy Hospital	Training
57375 Hostital	Students activities
Burg El Arab Hospital	Students activities

- Cooperation with Ministers and governmental agencies

Pharos university cooperates with ministries and national directorates in the health

List of Ministries and National Directorates in the health sector that Pharos University cooperated with for implementing Students' community projects.

Institute of Cultural Affairs	Students Projects
Education Directorate – Alexandria Governorate, Ministry of education	Community service projects
Education Directorate – Beheria Governorate, Ministry of education	Community service projects
Health Directorate – Ministry of Health	Community service projects
Cairo University	Research
Alexandria University	Research
Al Azhar University	Research Project
Menia University	Research Project
Academy of Science and Technology	Research Project
High Institute of Public Health	Research Project

- Pharos University cooperates with NGOs for implementing Students' community projects. Below is the List of NGOs that Pharos University Cooperates with for Community Service Projects

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Egyptian Network for Research Ethics Committees	Research Project
Naba'a Al Hayat Foundation	Community service projects
Mojeeb Al Salayen Foundation	Community service projects
Al Staqrar Foundation	Community service projects
Kafalat Al Yateem Foundation at Fata neighborhood	Community service projects
Al Qalaa for Community Development.	Community service projects
Eleen ElGaria association	Community service projects
Abdel Kadr Association	Community service projects
Tarek Charity Association (Mustafa Kamel)	Community service projects
Abu Masoud Suburb (Amiria)	Community service projects
Ayadi Mostakbal medical center (NGO)	Training
Omda Development Association (NGO)	Students Projects
Association of community based rehabilitation for disabled children (NGO)	Students Projects
Red Crescent Association (Mohandeseen)	

- Cooperation with Private sector

Private sector is an important sector that Pharos university is keen to cooperate with for different purposes, mainly for meeting, conferences and workshops. Such meetings allow the recognition of new trends in the local and regional market, and allow meeting the market needs. Below is the List of private sectors That Pharos University Cooperates with

Company name	Type of cooperation
Eva Pharma	Participation in Conference

Innova Pharma	Participation in Conference
Hygint Pharmaceutical company Ltd.	Participation in Conference
Goweily Academy	Workshops
Andalusia Hospital (Private Hospital)	Students activities
El Yousr Hospital (private Hospital)	Students Projects
Fawzy Moaaz Hospital (Private Hospital)	

- International Cooperation in the field of Health:

Pharos University received a high-ranking delegation of the *KTH Royal Institute of Technology* on Thursday, 26 September 2019. The delegation was comprised of Prof. Stefan Ostlund, the Vice President for Global Relations at the KTH Royal Institute of Technology and Prof. Albania Nissan, the KTH-PUA Joint Program Leader. The visit included meetings with the aim of establishing cooperation between the two parties in the field of Pharmacy. Prof. Stefan Ostlund praised the research concerning facilities at the faculty of Pharmacy and Drug Manufacturing and gave approval to start cooperation in the field of research between the faculty and the KTH Institute. Table 12 is the list of International MOUs established with European universities in the health sector.

<https://www.pua.edu.eg/a-kth-high-ranking-delegation-in-a-visit-to-pharos-university/>

Table 12. List of International MOUs established with European Universities in the Health sector.

Dentistry	The University of Naples Federico II, Italy
Pharmacy	Aston University, Birmingham, UK
	Kingston University, London, UK
	The University of Naples Federico II, Italy KTH Royal Institute of Technology
	JAMK University f Applied Sciences
	School of Pharmacy, University of Eastern Finland
	AUF)Agence Universitaire de la francophonie
	Kingston University
	Aston University
Physical therapy	Goethe' University , Frankfurt, Germany

3.5. Clinics

- The Faculty of Dentistry clinics

The Faculty of Dentistry has 7 clinics to serve the treatment of patents all are located in the first and ground floors to make accessible to patients. <https://www.pua.edu.eg/faculty-of-dentistry/dental-clinic/>. These clinics include the Comprehensive Care Case (CCC) which is open for students and public. The CCC program started since 2014 under the supervision of the faculty dean and is considered the graduation project of the senior students; where each 2 students work together on a single patient treating him/her from the start till the end under the supervision of the professors of different departments. Through this program, senior students acquire the knowledge, skills, and a widen horizon to make a comprehensive treatment plan for any patient with vision, confidence, and skill. Also this program is contributing in community service for all the disadvantaged patients mainly those who are unable to pay. The actual cost of

treatment of each individual case is ranging from a Minimum of 30,000 L.E to a Maximum of 100,000 L.E. but through this Program; these patients are receiving an excellent treatment totally Free of charge. Since the start of this program 500 cases were given a complete dental care for free. The pictures below shows some results before and after treatment of CCC



- This service is provided free for dental treatment. Below is a summary of the number of patients that were treated in the academic year 2019
- Patients visiting the dental clinic of PUA during the Academic year 2019-2020

month	New patients	Follow-up patients	CCC treatment	Total
8/2019	0	582	1427	2009
9/2019	114	339	970	1411
10/2019	923	1043	1527	3418
11/2019	779	910	1756	3445
12/2019	1995	1335	4119	7499
1/2020	463	74	426	963
2/2020	1136	708	649	2493
3/2020	677	1046	1413	3162
8/2020	0	0	373	373
Total	6087	6038	12660	24773

- The average patients /month = 2752.5
- Outpatients clinics for postgraduates' studies

Month	No. of cases	Number of new cases	total
8/2019	16	6	22
9/2019	9	20	29

10/2019	24	12	36
11/2019	16	7	23
12/2019	13	16	29
1/2020	10	5	15
2/2020	9	6	15
3/2020	4	5	8
Total	101	77	177

- The average patients /month = 22.12

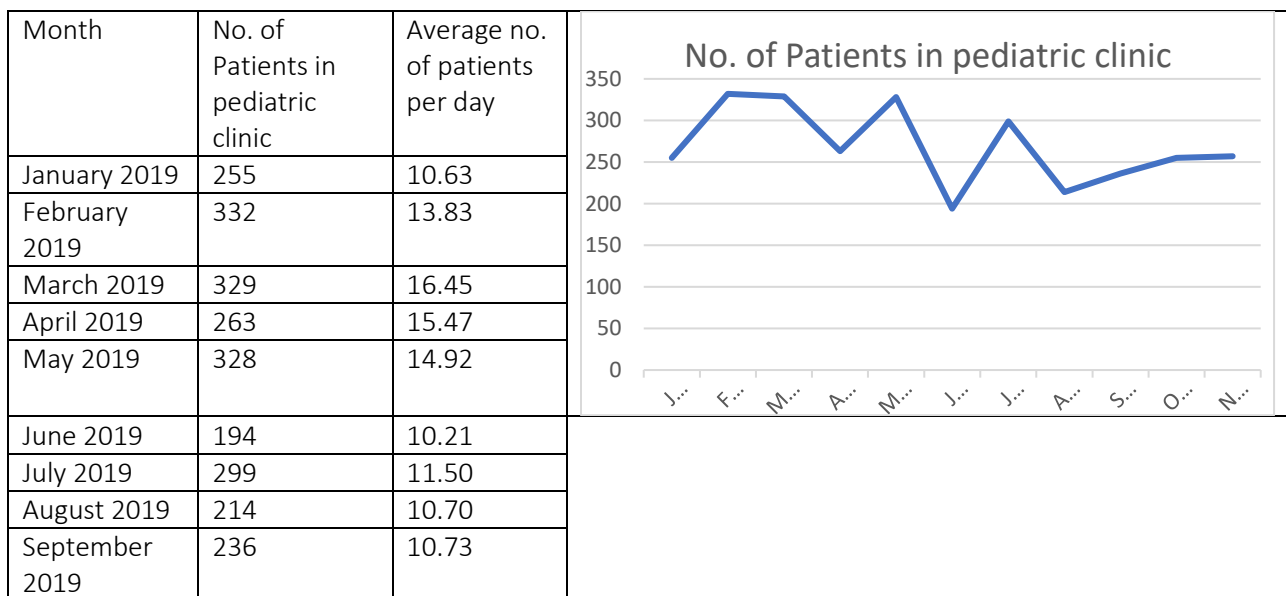
- Operations and Procedures

Month	PUA Cases	Private cases	Total
8/2019	-	6	6
9/2019	2	17	19
10/2019	-	8	8
11/2019	2	5	7
12/2019	3	16	19
1/2020	4	4	8
2/2020	2	5	7
3/2020	-	3	3
Total	13	64	77

- The average number of operations and procedures/month= 9.6

- The faculty of Physical therapy Clinics

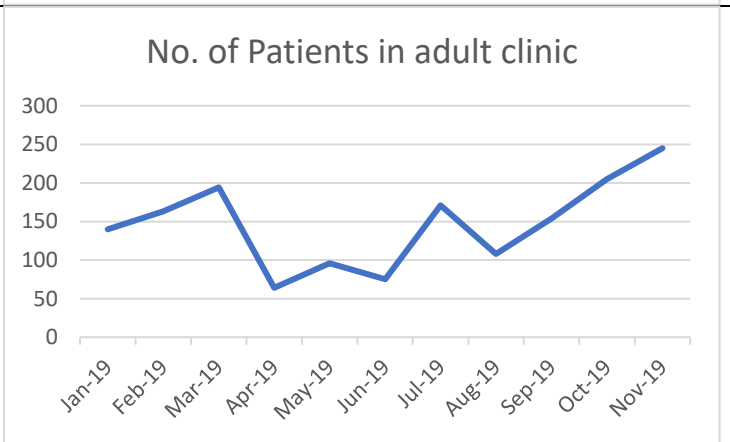
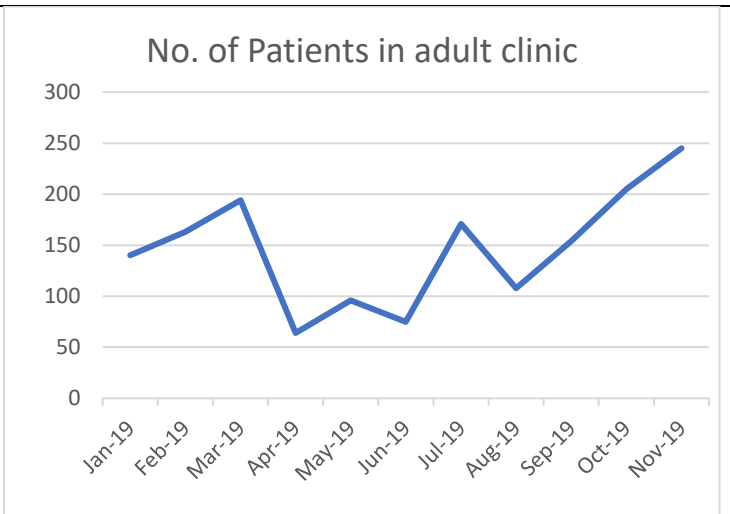
. The number of children patients in the academic year 2019-2020



October 2019	255	9	<p style="text-align: center;">Average no. of patients per day</p>
November 2019	257	10.71	
Total	2962		

The number of patients in adult clinic

Month	No. of Patients in adult clinic	Average no. of patients per day
January 2019	140	6.10
February 2019	163	6.79
March 2019	194	8.43
April 2019	64	4.0
May 2019	96	3.84
June 2019	75	3.41
July 2019	171	7.13
August 2019	108	5.68
September 2019	154	5.92
October 2019	205	8.2
November 2019	245	10.21
Total	1515	



3.5.3. The Faculty of Applied Health Sciences Technology provides the community with highly qualified specialists in different vital medical fields including nutrition, nursing and technologies of medical laboratories, medical equipment, radiology & medical imaging, optics, anesthesia & intensive care, and prosthodontic. Its facilities is provided in the link below.

<https://www.pua.edu.eg/allied-medical-sciences/facilities/>

3.6. International MOUs and mobilities-2019-2020

In the light of the academic staff exchange agreement held between Pharos University and the University of Eastern Finland, Dr. Samar El Ganainey, Dr. Mohamed Gamal Bekhiet and Dr. Mennatallah Ismail were awarded Erasmus+ scholarships funded by the European Union to be apprised of the latest developments in the realms of pharmacy and drug manufacturing, namely the state-of-the-art methods in teaching and scientific research

Name	Title	Faculty- PUA	Host university	Travel Dates
Samar ossama El-ganainy	Lecturer	Faculty of Pharmacy Pharmacology & Therapeutics Department	University of Eastern Finland (Finland).	24 April 2019 to 3 May 2019
Mennatallah Ahmed Ismail Ali	Lecturer	Faculty of Pharmacy Pharmacology & Therapeutics Department	University of Eastern Finland (Finland).	24 April 2019 to 3 May 2019
Mohamed Gamal Bekhiet	PhD student	Faculty of Pharmacy Pharmaceutical Chemistry Department	University of Eastern Finland (Finland).	1 March 2019 To 31 May 2019



- <https://www.pua.edu.eg/erasmus-sholarships-for-the-researchers-of-the-faculty-of-pharmacy-and-drug-manufacturing/>

- International Cooperation in the field of Health:

Pharos University received a high-ranking delegation of the *KTH Royal Institute of Technology* on Thursday, 26 September 2019. The delegation was comprised of Prof. Stefan Ostlund, the Vice President for Global Relations at the KTH Royal Institute of Technology and Prof. Albania Nissan, the KTH-PUA Joint Program Leader. The visit included meetings with the aim of establishing cooperation between the two parties in the field of Pharmacy. Prof. Stefan Ostlund praised the research concerning facilities at the faculty of Pharmacy and Drug Manufacturing and gave approval to start cooperation in the field of research between the faculty and the KTH Institute. Table 12 is the list of International MOUs established with European universities in the health sector.

<https://www.pua.edu.eg/a-kth-high-ranking-delegation-in-a-visit-to-pharos-university/>

Table 12. List of International MOUs established with European Universities in the Health sector.

Dentistry	The University of Naples Federico II, Italy
Pharmacy	Aston University, Birmingham, UK
	Kingston University, London, UK
	The University of Naples Federico II, Italy KTH Royal Institute of Technology
	JAMK University f Applied Sciences
	School of Pharmacy, University of Eastern Finland
	AUF)Agence Universitaire de la francophonie
	Kingston University
	Aston University
Physical therapy	Goethe' University , Frankfurt, Germany

3.7. Students' projects

Students of Pharos university were keen to share the SDG3 activities with their Bachelor Project as follows:

Project name	Summary
1. Smart health kit	(SDG 3) Ensure healthy lives and promote well-being for all at all ages. there is a need to provide e-Health services and there is a need for a comprehensive e-Health system that integrates patients, doctors, hospitals, and ambulances. In this project we developed a connected e-Health system that meets the end-to-end requirements especially for elderly people. The system can monitor the user via some sensors and notify the caring physician or call an ambulance in emergency situations. The system uses a special triggering algorithm in order to identify the appropriate action based on the sensed data and the age of the patient.

The Students of the Faculty of dentistry submitted their projects for the academic year 2019-2020, in the following Topics

Topic name
Prevalence of tobacco consumption among pharos university students
In vitro efficacy of cinnamaldehyde on streptococcus mutans strains compared to chlorhexidine
The antimicrobial effect of eugenol on lactobacilli species isolated from children saliva compared to chlorhexidine (in vitro study)
The effect of miswak and flouride toothpastes on streptococcus mutans, a comparative microbiological study .
Comparison of the antimicrobial effect of qarlic with lime and chlorhexidine mouth rinses against Streptococcus Sobrinus in children (in-vitro study)
The effect of curcumin and acacia nilotica extract on the healing of oral ulcers
A comprehensive dental health program among orphanage's children in Alexandria: assessment of their oral health status
Topical application of aloe vera and vitamin E on the induced ulcer on the tongue of rats :clinical and histological evaluation. Randomized controlled experimental study
Effect of curcumin on oral mucosa of diabetic rats
Effect of Smoking on Oral Mucosa (Cytological study)
Effect of diabetes on the tongue and buccal mucosa
Prevalence of oral habits in a group of children aged 6-12 years in Alexandria
The anti-bacterial and physical properties of soft liners containing propolis (in vitro study)
patient's perception of treatment outcomes and quality of life following implant treatment and conventional prosthodontic appliance .
Effect of cocos nucifera (coconut oil) incorporated into tissue conditioner on its tensile strength and anti fungal activity
Body mass index and dental caries experience among school children in Alexandria, EGYPT
Occupational hazards among dentists in alexandria
Knowledge, attitude and practice regarding tobacco cessation among health care professionals
Effect of education program on oral health among visually impaired patient
Antibacterial effectiveness of probiotic based on experimental against cariogenic bacteria "streptococcus mutans" and salivary parameters
Effect of garden cress in healing socket after extraction in rats
Effect of curcumin on alveolar bone healing in rats

3.7. Research Publications and collaboration in the health sector

1	A Novel Morphological Analysis of DXA-DICOM Images by Artificial Neural Networks for Estimating Bone Mineral Density in Health and Disease
	Mohamed, E.I., Meshref, R.A., Abdel-Mageed, S.M., Moustafa, M.H., Badawi, M.I., Darwish, S.H.
	Collaboration with Alexandria University
2	Co-targeting of endothelin-A and vitamin D receptors: a novel strategy to ameliorate cisplatin-induced nephrotoxicity
	Abdel Moneim, L.M., Helmy, M.W., El-Abhar, H.S
	Collaboration with Cairo University
3	Effect of using zirconia and metallic bar attachment overdentures on the supporting structures of mandibular edentulous ridge area (Randomized control trial) (2019) Indian Journal of Public Health Research and Development, 10 (9), pp. 1150-1155. 20)
	Debis, M.Z., Badr, A.I., Agamy, E.M., Mohamed, G.F.
	Collaboration with Minia University

4	Opportunistic parasitoses among Egyptian hemodialysis patients in relation to CD4+ T-cell counts: A comparative study
	Shehata, A.I., Hassanein, F., Abdul-Ghani, R.
	Collaboration with Alexandria University, and Sanaa University
5	Role of TGF-β1 and C-Kit Mutations in the Development of Hepatocellular Carcinoma in Hepatitis C Virus-Infected Patients: in vitro Study
	El-Houseini, M.E., Ismail, A., Abdelaal, A.A., El-Habashy, A.H., Abdallah, Z.F., Mohamed, M.Z., El-Hadidi, M., Cho, W.C.S., Ahmed, H., Al-Shafie, T.A.
	Collaboration with Kowloon Hong Kong China, Queen Elizabeth Hospital, GlycoMantra, Cairo University, Ain Shams University
6	Synthesis and biological evaluation of purine-pyrazole hybrids incorporating thiazole, thiazolidinone or rhodanine moiety as 15-LOX inhibitors endowed with anticancer and antioxidant potential
	Afifi, O.S., Shaaban, O.G., Abd El Razik, H.A., Shams El-Dine, S.E.-D.A., Ashour, F.A., El-Tombary,
	Collaboration with City of Scientific Research and Technological Applications, and Alexandria University
7	Synthesis and molecular docking study of some 3,4-dihydrothieno[2,3-d]pyrimidine derivatives as potential antimicrobial agents
	Shaaban, O.G., Issa, D.A.E., El-Tombary, A.A., Abd El Wahab, S.M., Abdel Wahab, A.E., Abdelwahab, I.A.
8	Professional boundaries.
	Elnaem, M.H., Hamdy, N.A.
	Collaboration with INTERNATIONAL ISLAMIC Institute of Malaysia
9	Shooting three inflammatory targets with a single bullet: Novel multi-targeting anti-inflammatory glitazones (2019) <i>European Journal of Medicinal Chemistry</i> , 167, pp. 562-582. Cited 5 times.
	Elzahhar, P.A., Alaaeddine, R., Ibrahim, T.M., Nassra, R., Ismail, A., Chua, B.S.K., Frkic, R.L., Bruning, J.B., Wallner, N., Knape, T., von Knechten, A., Labib, H., El-Yazbi, A.F, Belal, A.S.F.
	Collaboration with Alexandria university, American University of Beirut, Beirut, Lebanon, The University of Adelaide, Adelaide, South Australia, Fraunhofer Institute for Molecular Biology and , Faculty of Medicine, Goethe-University Applied Ecology
10	A combined treatment of curcumin, piperine, and taurine alters the circulating levels of IL-10 and miR-21 in hepatocellular carcinoma patients: A pilot study
	Hatab, H.M., Abdel Hamid, F.F., Soliman, A.F., Al-Shafie, T.A., Ismail, Y.M., El-Houseini, M.E.
	Collaboration with Ain Shams university , Cairo university
11	A new design for a chronological release profile of etodolac from coated bilayer tablets: In-vitro and in-vivo assessment.
	Georgy, K.R., Farid, R.M., Latif, R., Bendas, E.R.

	Collaboration with Future university, Cairo university
1 2	A novel investigation of statins myotoxic mechanism: effect of atorvastatin on respiratory muscles in hypoxic environment
	El-Ganainy, S.O., El-Mallah, A., Abdallah, D., Khattab, M.M., El-Khatib, A.S., Mohy El-Din, M.M.
	Collaboration with Alexandria University, Cairo University
1 3	A novel voltammetry offline coupled MALDI/TOF MS characterization of electrochemical reaction products and the voltammetric determination of febuxostat in human plasma
	El-Yazbi, F.A., Amin, O.A., Bakry, R., Khamis, E.F., El-Kimary, E.I., Younis, S.E.
	Collaboration with University of Innsbruck, Alexandria University
1 4	An Initial Demonstration of Polyester Monomer Coordination Properties: Synthesis and Biological Activity of Metal Complexes Derived from a New Nanosized Diol
	Elhousseiny, A.F., Hussien, H.M., Hassan, H.H.A.M.
	Collaboration with Alexandria University
1 5	Anionic versus cationic bilosomes as oral nanocarriers for enhanced delivery of the hydrophilic drug
	Terms and conditions Privacy policy
	Elnaggar, Y.S.R., Omran, S., Hazzah, H.A., Abdallah, O.Y
	Collaboration with Alexandria University
1 6	Assessment of Osteoimmunological Changes Following Orthognathic Surgery
	Soliman, S., Dehis, M., Ahmed, M., Kateeb, E.E.L.
	Pharos University
1 7	Astrocyte-Targeted Transporter-Utilizing Derivatives of Ferulic Acid Can Have Multifunctional Effects Ameliorating Inflammation and Oxidative Stress in the Brain
	Ahmed Montaser,¹ Johanna Huttunen,¹ Sherihan Abdelhamid Ibrahim,² and Kristiina M. Huttunen
	Collaboration with Eastern Finland
1 8	Clarithromycin resistance and genetic pattern of helicobacter pylori in a group of patients with peptic ulcer disease in alexandria, Egypt
	Alhammad, M.A., El-Kady, H., Hamed, Y.
	Collaboration with Universiti Teknologi PETRONAS, Alexandria university , Benghazi University
1 9	Clarithromycin resistance and genetic pattern of helicobacter pylori in a group of patients with peptic ulcer disease in alexandria, Egypt
	Alhammad, M.A., El-Kady, H., Hamed, Y.
	Collaboration with American University of Beirut, Alexandria university

20	Comparison of remineralization by fluoride varnishes with and without casein phosphopeptide amorphous calcium phosphate in primary teeth
	64) Salman, N.R., ElTekeya, M., Bakry, N., Omar, S.S., El Tantawi, M.
	Collaboration with Alexandria University
21	Comparison of the effects of short-duration wrist joint splinting combined with physical therapy and physical therapy alone on the management of patients with lateral epicondylitis.
	Kachanathu, S.J., Alenazi, A.M., Hafez, A.R., Algarni, A.D., Alsubiheen, A.M.
	Collaboration with Prince Sattam bin Abdulaziz University ,King Saud university
22	Controlled release Ibu-cryobarriers for the prevention of post-operative adhesions: In-vitro/in-vivo comparative study
	Ezzat, H.M., Elnaggar, Y.S.R., Abdallah, O.Y.
	Collaboration with Alexandria university
23	Correlation study of functional performance between diabetic and non-diabetic patients with knee osteoarthritis
	Hamed, A.M., Aboeleinen, M.H., Abdelgawad, H.A., Aboelazm, S.N
	Collaboration with Misr International University
24	Current strategies for different paclitaxel-loaded Nano-delivery Systems towards therapeutic applications for ovarian carcinoma: A review article
	Khalifa, A.M., Elsheikh, M.A., Khalifa, A.M., Elnaggar, Y.S.R
	Collaboration with Alexandria University
25	Dental management of a child with ectrodactyly ectodermal dysplasia cleft lip/palate syndrome: A case report
	Elhamouly, Y., Dowidar, K.M.L.
	Collaboration with Alexandria University
26	Design, synthesis and biological evaluation of novel α-acyloxy carboxamides via Passerini reaction as caspase 3/7 activators
	Salah Ayoup, M., Wahby, Y., Abdel-Hamid, H., Ramadan, E.S., Teleb, M., Abu-Serie, M.M., Noby, A.
	Collaboraton with Alexandria University, City of Scientific Research and Technological Applications
27	Design, synthesis and pharmacological evaluation of some substituted dihydropyrimidines with L-/T-type calcium channel blocking activities
	Teleb, M., Rizk, O.H., Zhang, F.-X., Fronczek, F.R., Zamponi, G.W., Fahmy, H.
	Collaboration with Institute, University of Calgary, Alexandria University, South Dakota State University
28	Diosmin Nanocrystal-Loaded Wafers for Treatment of Diabetic Ulcer: In Vitro and In Vivo Evaluation
	Atia, N.M., Hazzah, H.A., Gaafar, P.M.E., Abdallah, O.Y.

	Collaboration with Alexandria University, Arab Academy for Science, Technology and Maritime Transport
29	Dual VEGFR-2/PIM-1 kinase inhibition towards surmounting the resistance to antiangiogenic agents via hybrid pyridine and thienopyridine-based scaffolds: Design, synthesis and biological evaluation (2019) Bioorganic Chemistry, 92, art. no. 103189, .
	Rizk, O.H., Teleb, M., Abu-Serie, M.M., Shaaban, O.G.
	Collaboration with Alexandria University
30	Eco-Friendly Tadalafil Surfactant-Free Dry Emulsion Tablets (SFDETs) Stabilized by In Situ Self-Assembled Aggregates of Natural Oil and Native Cyclodextrins
	Badr-Eldin, S.M., Labib, G.S., Aburahma, M.H.
	Collaboration with Alexandria University, King Abdulaziz University
31	Effect of local administration of simvastatin on orthodontic tooth movement in rabbits
	AlSwafeeri, H., ElKenany, W., Mowafy, M., Karam, S.
	Collaboration with Alexandria University
32	Effect of using distal extension bar on the posterior ridge area in implant supported mandibular overdentures
	Abdel Hamid, S.M., Hamzawi, A.G., Agamy, E.M., Mohamed, G.F
	Collaboration with Minia University
33	Effect of visceral decongestion of true pelvis on primary dysmenorrhea
	Atef, A.M., Awad, M.A., Emara, H.M., Kamel, H.E.D.H.
	Collaboration with Alexandria University
34	Emergence of bla_{VEB} and bla_{GES} among VIM-producing Pseudomonas aeruginosa clinical isolates in Alexandria, Egypt
	Gaballah, A., Elbaradei, A., Elsheredy, A., Kader, O.
	Collaboration with Alexandria University
35	Enhanced production of di-(2-ethylhexyl) phthalate (DEHP) by Bacillus subtilis AD35 using response surface methodology (RSM)
	Lotfy, W.A., Hassan, S.W.M., Abd El-Aal, A.A., Ghanem, K.M.
	Collaboration with Alexandria University, and National Institute of Oceanography and Fisheries
36	Evaluating the therapeutic potential of one-carbon donors in nonalcoholic fatty liver disease

	Bakir, M.B., Salama, M.A., Refaat, R., Ali, M.A., Khalifa, E.A., Kamel, M.A.
	Collaboration with Alexandria University
37	Formulation strategies for achieving high delivery efficiency of thymoquinone-containing Nigella sativa extract to the colon based on oral alginate microcapsules for treatment of inflammatory bowel disease
	Samak, Y.O., Santhanes, D., El-Massik, M.A., Coombes, A.G.A.
	Collaboration with Queensland university, Monash university, Queen Elizabeth university
38	Improved oral bioavailability of the anticancer drug catechin using chitosomes: Design, in-vitro appraisal and in-vivo studies
	Ezzat, H.M., Elnaggar, Y.S.R., Abdallah, O.Y.
	Collaboration with Alexandria university
39	Improving hepatic mitochondrial biogenesis as a postulated mechanism for the antidiabetic effect of spirulina platensis in comparison with metformin (2019) Applied Physiology,
	Oriquat, G.A., Ali, M.A., Mahmoud, S.A., Eid, R.M.H.M., Hassan, R., Kamel, M.A.
	Collaboration with Amman university, Alexandria university , Aswan university
40	Insights on the use of nanocarriers for acne alleviation (2019) Current Drug Delivery, 16 (1), pp. 18-25. Cited 11 times.
	Amer, S.S., Nasr, M., Mamdouh, W., Sammour, O.
	Collaboration with Alexandria University
41	Lecithin Microemulsion Lipogels Versus Conventional Gels for Skin Targeting of Terconazole: In Vitro, Ex Vivo, and In Vivo Investigation
	Talaat, S.M., Elnaggar, Y.S.R., Abdalla, O.Y.
	Collaboration with Alexandria University
42	Liquid Chromatography-Mass Spectrometry for muconic, mandelic, hippuric and methylhippuric acids analysis in human urine as metabolites for fuel exposure
	Belal, S.F., Shaalan, R.A., Ragab, M.A.A., El-Attar, E.A., Agami, M.
	Collaboration with Alexandria University
43	Maxillary sinus floor elevation using hydroxyapatite nano particles vs tenting technique with simultaneous implant placement: A randomized clinical trial
	Khaled, H., Atef, M., Hakam, M.
	Collaboration with Cairo University

4	Mechanistic role of cAMP and hepatocyte growth factor signaling in thioacetamide-induced nephrotoxicity: Unraveling the role of platelet rich plasma
4	Keshk, W.A., Zahran, S.M.
	Collaboration with Tanta University
4	Mesoporous silica nanoparticles, a safe option for silymarin delivery: preparation, characterization, and in vivo evaluation
5	Nasr, S.S., Nasra, M.M.A., Hazzah, H.A., Abdallah, O.Y.
	Collaboration with Alexandria University
4	Micro- and nanotechnology approaches to improve Parkinson's disease therapy
6	Torres-Ortega, P.V., Saludas, L., Hanafy, A.S., Garbayo, E., Blanco-Prieto, M.J.
	Collaboration with Universidad de Navarra, Instituto de Investigación Sanitaria de Navarra
4	Reviewing two decades of nanomedicine implementations in targeted treatment and diagnosis of pancreatic cancer: An emphasis on state of art
7	El-Zahaby, S.A., Elnaggar, Y.S.R., Abdallah, O.Y.
	Collaboration with Alexandria University
5	Robust Chromatographic Methods for the Analysis of Two Quaternary Mixtures Containing Paracetamol, Codeine, Guaifenesin and Pseudoephedrine or Phenylephrine in their Dosage Forms (2019) Journal of Chromatographic Science, 57 (9), pp. 828-837.
0	El-Kimary, E.I., Khamis, E.F., Belal, S.F., Abdel Moneim, M.M
	Collaboration with Alexandria University
5	Simple mix-and-read assays for the determination of baclofen in pharmaceutical formulation
1	El-Yazbi, A.F., Guirguis, K.M., Bedair, M.M., Belal, T.S.
	Collaboration with Alexandria University
5	Simultaneous determination of methocarbamol and aspirin in presence of their pharmacopeial-related substances in combined tablets using novel HPLC-DAD method
2	El-Yazbi, F.A., Amin, O.A., El-Kimary, E.I., Khamis, E.F., Younis, S.E.
	Collaboration with Alexandria University
5	Structurally Diverse Histone Deacetylase Photoreactive Probes: Design, Synthesis, and Photolabeling Studies in Live Cells and Tissue
3	
5	Aboukhatwa, S.M., Hanigan, T.W., Taha, T.Y., Neerasa, J., Ranjan, R., El-Bastawissy, E.E., Elkersh, M.A., El-Moselhy, T.F., Frasor, J., Mahmud, N., McLachlan, A., Petukhov, P.A.
4	
	Collaboration with University of Illinois at Chicago, Tanta University, Alexandria University

5 5	Successful treatment of acute experimental toxoplasmosis by spiramycin-loaded chitosan
	Hagras, N.A.-E., Allam, A.F., Farag, H.F., Osman, M.M., Shalaby, T.I., Fawzy Hussein Mogahed, N.M., Tolba, M.M., Shehab, A.Y
	Collaboration with Alexandria University
5 6	Synthesis of hexagonal nanozinc by arc discharge for antibacterial water treatment, (2019) Surface Innovations, 8 (3), pp. 165-171. Cited 1 time, DOI: 10.1680/jsuin.19.00050
	Khalil, A.M., El-Khatib, A.M., El-Khatib, M.
	Collaboration with Alexandria University
5 7	Synthesis of some new C2 substituted dihydropyrimidines and their electrophysiological evaluation as L-/T-type calcium channel blockers
	Teleb, M., Rizk, O.H., Zhang, F.-X., Fronczek, F.R., Zamponi, G.W., Fahmy, H.
	Collaboration with South Dakota State University, University of Calgary, University of Calgary, Alexandria University
5 8	Synthesis, antibacterial evaluation, and DNA gyrase inhibition profile of some new quinoline hybrids
	Rizk, O.H., Bekhit, M.G., Hazzaa, A.A.B., El-Khawass, E.-S.M., Abdelwahab, I.A.
	Collaboration with Alexandria University
5 9	Telmisartan and captopril ameliorate pregabalin-induced heart failure in rats (2019) Toxicology, 428, art. no. 152310, . Cited 1 time.
	Awwad, Z.M., El-Ganainy, S.O., ElMallah, A.I., Khattab, M.M., El-Khatib, A.S
	Collaboration with Alexandria University and Cairo University
6 0	The possible antidiabetic effects of vitamin D receptors agonist in rat model of type 2 diabetes
	Abdel-Rehim, W.M., El-Tahan, R.A., El-Tarawy, M.A., Shehata, R.R., Kamel, M.A.
	Collaboration with Alexandria University
6 1	The role of $\alpha 7nAChR$ in controlling the anti-inflammatory/anti-arthritic action of galantamine
	Gowayed, M.A., Rothe, K., Rossol, M., Attia, A.S., Wagner, U., Baerwald, C., El-Abhar, H.S., Refaat, R.
	Collaboration with University of Leipzig, Germany, Cairo University
6 2	Torres-Ortega, P.V., Martínez-Valbuena, I., Martí-Andrés, G., Hanafy, A.S., Luquin, M.R.,
	90) Torres-Ortega, P.V., Martínez-Valbuena, I., Martí-Andrés, G., Hanafy, A.S., Luquin, M.R.,
	Collaboration with Universidad de Navarra, universität München, Instituto de Investigación Sanitaria de Navarra, Universidad de Navarra

63	Volatile organic compounds of biofluids for detecting lung cancer by an electronic nose based on artificial neural network
	Mohamed, E.I., Mohamed, M.A., Abdel-Mageed, S.M., Abdel-Mohdy, T.S., Badawi, M.I., Darwish, S.H.
	Alexandria university, October 6 university

3.8. Courses in Curricula

Faculty	Course name	Course code	SDG-relevancy	Topic
Applied Health Sciences Technology	Psychology	MGSY-201	3	Mental well being
Applied Health Sciences Technology	Infection Control	MLIC-401	3	Hygiene for good health
Applied Health Sciences Technology	Ethical and Legal Issues in Health Fields	MGME-101	3	Wellbeing and living standards
Pharmacy	Medicinal Chemistry I	(PCD 301) and (PCC 401)	3	diagnostic agents that treat different infections
Pharmacy	Public Health and Preventive Medicine	PMC 401	3	Society health and wellbeing
Pharmacy	Project in Pharmacognosy & Natural Products	PG E08	3	Sustainable use of natural resources
Pharmacy	Nutrition & Health	PL 416	3	Combating malnutrition , Society health and wellbeing
Pharmacy	Public Health	PM 305	3	Society health and wellbeing
Pharmacy	Home Health Care	PN E19	3	Wellbeing of women health at home to reduce inequalities
Pharmacy	First Aid and Basic Life Support (BLS)	PLC 303	3	Society health and wellbeing
Pharmacy	Natural Cosmetics	PGD E01	3	Sustainable use of natural resources
Pharmacy	Herbal medicine	PGD E02	3	Sustainable use of natural resources
Pharmacy	Sustainability in Therapeutics	PLD E03	3	Sustainable use of natural resources
Pharmacy	Medicinal Chemistry II	(PCD 302) and (PCC 403)	3	pharmacological aspects of medicinal and pharmaceutical agents that belong to different categories
Pharmacy	Drug Design	(PCD 401) and (PCC E02)	3	Essentials of pharmaceutical chemistry and metabolism.

				Development of prodrugs, soft drugs, hard drugs
Pharmacy	Analysis of food & flavours	(PCD E02) and (PCC E03)	3	classification of flavouring agents and chemesthetic compounds found in food, their chemistry and methods of analysis.
Artificial Intelligence	Bioinformatics Programming and Scripting	DS307	3	Medical data handling
Artificial Intelligence	Biomedical Imaging	DS407	3	Medical data handling
Tourism	Current issues in food service (Elective)	HM 336	3	Healthy food for wellbeing, consumption reduction
Tourism	Safe Food Service Management	HM 434	3	Healthy food for wellbeing, consumption reduction
Dentistry	Dental clinic management & infection control	CD 312	3	Human health protection and control of infection in dental clinics
Physical Therapy	Public Health	PTBA 216	3	Good health of society particularly for poor
Physical Therapy	Psychology of Handicapped	PTBA 217	3	Psychic problem and treatment
Physical Therapy	Clinical Psychology	PTBA 337	3	Treatment sessions of Psychic patients
Physical Therapy	Woman Health Physical Therapy	PTWH 446	3	Women health and treatment