Organization Committee

Prof. Dr. Hanan Al- Laithy
Dean of Faculty of Pharmacy

Authors

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“We aim to graduate distinguished talented pharmacists able to compete in the work field. The faculty helps our students to explore different aspects of college life besides an enriching academic plan as it is important to establish a healthy balance between both. I am proud to say that our students have not only excelled academically but have shown outstanding skills in competitions, events participation, conferences and awareness campaigns.

Our staff is a fundamental asset of the faculty, their achievements reflect directly on our performance as a whole. They invest their time, effort and care to our students. Moreover, their contribution in the scientific field is marked through many publications in reputable scientific journals. We have witnessed many promotions throughout the departments in a short period of time, their devotion to their students and work is greatly appreciated.

We believe that a great career is built on a history of contributions as unique as the person who achieved them so it is with great pleasure I present this book as a tribute to the achievements of our faculty.”
Acknowledgments

On Behalf of MSA University, we would like to thank the following respectable pharmaceutical companies for their generous contributions to our faculty activities. We are indeed grateful to you for your enthusiastic support.
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External Examiners and Guests Quotes

“MSA University is one of few universities that offer many training opportunities to its students which is crucial to prepare them for the work field”

Dr. Amr Naggar
Head of Clinical Pharmacy Department
Araby Hospital & Maadi Military Hospital

I commend MSA for providing professional training to its students, not only do these students learn theoretical basics but they can apply their knowledge in real life situations.

Dr. Mohammed Farouk
Head of Clinical Pharmacy & Clinical Nutrition Department
Moallemeen Hospital

I thank MSA for hosting such an important conference highlighting the latest in the field of pharmacology.

Prof. Dr. Mohey Mazar
Dean of Faculty of Pharmacy-BUE
Member of the Board of Directors of ESPET

It was a pleasure having MSA students as trainees in our pharmacies. They were dedicated young pharmacists always willing to learn more.

Dr. Walaa Attia
Manager of Abo Ali Pharmacies
Training is an important aspect of learning, so by allowing these students to be exposed to practical experience will make them standout in the competitive work field.

Egyptian plans to fight antimicrobial resistance by different ways and everyone should be a part of that plan. Community service by MSA students and awareness effort should be a model for others to follow.

It is great how MSA organizes conferences with distinguished speakers that share their knowledge with the students, raising their awareness and surely will lead to innovative graduates keen on research and a bright careen in the work field pharmacological searches.

The conference held in MSA is an important event as it raises awareness amongst students about the importance of medical input and pharmaceutical revolution in improving human health and treating challenging diseases.
I think MSA is a great university, it offers its students many opportunities, both in terms of their education and career development.

Dr. Katerina Lalatsa
Lecturer of Pharmaceutics & Drug delivery Greenwich University

The quality and the actual methodologies the students are applying, the results they are getting, the possibility of publishing in international journals, and most of them actually do. These are all very good qualities that are reflected on the development of these students. It reflects on the very good standards that are applied by the teaching teams, the university and their systems.

Dr. Samer El Daher
Head of the Sciences Department
Greenwich University

The academic staff in MSA are so keen to learn and see what other people are doing and to learn from other people examples and think how they can use it to improve themselves. Their commitment to their students is impressive.

Dr. Sally Alsford
Deputy Head of Educational Development Unit
Greenwich University

Because MSA has been very brave, I think MSA is going to be a leader in Egypt not only Cairo.

Dr. Melanie Thorley
Accessability Team Coordinator
Greenwich University
The EPSF-MSA students got the first place in the annual competition for the most important event PHocus for the second time in the international competition of the International Federation, where the student, Engy Emad El-Din Mohamed El-Sayyad, a student at the Faculty of Pharmacy in the second year, won first place in the competition between 74 students from 37 colleges of pharmacy in Egypt on the topic of the global epidemic Corona (COVID-19).
For the first time in EPSF-MSA History, one of our members have been elected as one of IPSF EMRO Regional Working Group for the position of Regional Secretary all over the Eastern Mediterranean Region’ countries who is Ebtehal Elsayed.
Extracurricular activities

Awareness Campaigns

EPSF-MSA Awareness Campaigns

The members of the Egyptian Union of Pharmacy Students EPSF-MSA inside and outside the university in the commercial markets, sports clubs and different villages including:

Blood Donation Campaigns

EPSF-MSA organized campaigns to raise the awareness about the importance of blood donation to 1000 people at Dar El-Tarbiah School (7/12/2020), Hossary Square (10 & 19/12/2020) and Mit nama village.
Pharmacy practice awareness campaign

PPAC is aimed at educating the general public, policy makers, and other health care professionals about the pharmacists' role as an integral part of the health care team.

Ramdan Supplies: Preparing & distributing 200 Ramadan bags.
Women’s health awareness campaign

An event related to women health either physical or psychological through discussing different topics, Osteoporosis, Domestic violence and harassment.
Members of SMC (Scientific Microbiology Club) organized a medical convoy in the Badrashin area from 2\textsuperscript{nd} to 10\textsuperscript{th} of February (2020) under supervision of Prof. Dr. Faten Baioumy to provide different societal services:

- Raise the awareness about the symptoms and treatments of virus C and Vitiligo
- Treating 150 cases of internal medicine
- Treating 150 cases of pediatrics
- Treating 150 cases of orthopedics
- Treating 150 cases of Ear, nose and throat (ENT) medicine
In 2020, pharmacy students participated in the campaigns aim to raise awareness of clinical nutrition in relation to many diseases even under COVID-19 pandemic circumstances, under supervision of biochemistry department staff on Facebook page “Health and Nutrition Tips”

Nutritional strategies to boost immunity and prevent infection
Clinical nutrition in iron deficiency anemia

Anemia disease
Caused by a lack of iron

Attention should be given to foods that contain iron, including lean meats, seafood, nuts, beans, bread, grains, and other cereal products. In addition to eating liver, beef, chicken liver and vegetables such as carrots, celery and onions.

Clinical nutrition in infants & allergies
In 2021, pharmacy students participated in the campaigns aim to raise awareness of clinical nutrition in relation to many diseases under supervision of biochemistry department staff. It also contributes to the role of the University’s students in community service.

Nutritional awareness campaign to prevent Alzheimer's disease
Nutritional awareness campaign to prevent various cancer types

Clinical Nutrition for women over 40-awareness campaign
In 2021, The 4th year students of the Faculty of Pharmacy, enrolled in cosmetics Course had a field trip to L’Oreal Egypt factory where they saw the new techniques in the manufacturing and packaging of different anti-aging creams and different shampoos and hair care products.

The aim of this visit was to make them understand the link between what is studied in theoretical part and the manufacturing and packaging process to the products that will be introduced to the market.
MSAMWHO is a simulation of the WHO where students take on the responsibilities of health officials in the field of international public health and policy.

In 2021, MWHO members have been invited by the University of Sheffield to participate in the International Conference “Strengthening Health Systems”. Since the success of that course, WHO Model has been able to receive an invitation to join the current conference from Sheffield Organization through an online platform. They are certified by the Sheffield Health Organization.
For the years 2020 and 2021, the two campaigns that were organized, the first aims to visit the Al-Quds House for orphans and people with special needs and the second one, organized to raise the awareness of the importance of vaccination against Corona and the side effects of each type listed in the Egyptian Ministry of Health and the World Health Organization, which was held on the campus of MSA University to limit the spread of the Corona virus and reduce the severity of symptoms associated with exposure.
In 2021, in pursuit of developing its students’ skills, faculty of pharmacy held a campaign under the supervision of MSAMWHO for levels four and five to Dr. Ehab Serag El-Den center for blood transfusion and plasma donation in AL-Agouza which is a part of the national project for plasma donation following the Egyptian president initiative which has started in the last July under the title of "العلاج جوائلاً", for manicuring and self-sufficiency of plasma derivatives.

Students also visited the blood bank to know the importance of plasma donation, steps of plasma donation, and the proper time for plasma donation represented by the department of the blood donation and its derivatization of platelets and the registration office to ensure the health state of the donator.
A campaign to raise awareness of the importance of vaccination against the Covid-19 virus at the Organo Factory in 6th of October City.
In 2020, Organizing a campaign to support the practice of pharmacovigilance in Egypt during the week of drug safety in coordination with the Community Service Committee and in cooperation with the World Health
The model of the Health Organization of MSA-WHO received an invitation to participate in a conference at Ain Shams University to discuss the unfair distribution of the Corona vaccine among the countries of the world and the international deals granted globally in light of the Corona pandemic.

**Fifth Annual Conference Discussed "Vaccination against COVID-19 and its Impact around the World"**
MSAMWHO held an international conference titled “Vaccination of Covid-19” to discuss Covid 19 history, the new variants of the virus, and the importance of the vaccination. Our main focus in the meantime is to spread awareness all over the world about this pandemic.
Pharmaceutics Department Scientific Day

In 2021, Within the framework of the Faculty of Pharmacy, to raise awareness of the Corona virus and its dangers, the students of the fourth year presented the activity of Biopharmaceutics and Pharmacokinetics (Department of Pharmaceutics) through three-dimensional models that explain in detail the negative effects of the Corona virus on drug kinetics and biological processes that occur inside the body and the risks of interactions that occur between drugs during treatment from the virus and their impact on the liver Kidney and lung, in addition to other important topics such as the effect of drug-drug interactions, food-drug interactions, environmental factors and smoking on drug kinetics within the body.
Organic Chemistry Scientific Day

In 2021, 2D representation of organic compounds are often used for simplicity. However, 3D models highlight important information that may be omitted by 2D representations such as shape of molecules, bond angles and stereoisomers, all of which are essential features that define a drug's physical and chemical properties in addition to its pharmacological profile.
Pharmacists in Frontlines: New Challenges and Innovative Solutions

Innovative solutions highlighted for the worldwide burden of the pandemic COVID-19, the risk of antibiotic resistance, the updates in pharmaco-manufacturing, pharmaco-vigilance and pharmaco-economics.

The conference devoted sessions about artificial intelligence as a tool of time saving and efficient targeting for the future drug discovery and drug design. Besides, the conference offered a variety of distinguished workshops in different advanced pharmaceutical fields.
Academic Events

Conferences

PHARMACISTS IN FRONTLINES
NEW CHALLENGES & INNOVATIVE SOLUTIONS
12-13
Dec. 2020

Agenda - Day 1
Saturday, December 12th, 2020

Opening Session

Welcome to the MSA University
Prof. Dr. Khairy Abdel Hamid
MSA University - President
10:30 - 11:00 GMT+2

Welcome to the Faculty of Pharmacy
Prof. Dr. Hanan El Laithy
Faculty of Pharmacy - Dean
10:30 - 11:00 GMT+2

Session 1

Antiviral siRNA delivery using recombinant proteins and exosomes
Dr. Simon Richardson
University of Greenwich, UK
11:00 - 11:30 GMT+2

Nanomedicines for brain diseases and cancers
Dr. Katerina Lalatsa
University of Portsmouth, UK
11:30 - 12:00 GMT+2
Academic Events

Conferences

Agenda - Day 1
Saturday, December 12th, 2020

Session 1
COVID-19 and AMR common challenges, threats, joint prevention and control activities
12:00 - 12:30 GMT+2
Dr. Omar Abouelata
World Health Organization (WHO), Egypt

Coffee break From 12:30 to 01:00 GMT+2

Session 2 - Artificial Intelligence
Machine learning methods in drug delivery
01:00 - 01:30 GMT+2
Prof. Dr. Rania Hathout
Ain Shams University, Egypt

Intelligent healthcare 1
01:30 - 02:00 GMT+2
Eng. Yousry Atim
Huawei, Egypt

Intelligent healthcare 2
02:00 - 02:30 GMT+2
Eng. Medhat Mahmoud
Huawei, Egypt
Agenda-Day 1
Saturday, December 12th, 2020

Session 2

Role of pharmacist in boosting health economy: New opportunities
02:30 - 03:00 GMT+2

Dr. Gihan Hamdy El-Sisi
HTA office, Egypt

Lunch break From 03:00 to 04:00 GMT+2

Workshops (in parallel sessions) 04:00 - 06:00 GMT+2

MS-based metabolomics applications in pharmacy
Mohamed Abd Allah Salem (PhD)

Genetic toxicology: A regulatory requirement in the discovery and development of new pharmaceuticals
Eman Gomaa (PhD)

Concomitant application of quality by design and artificial intelligence in drug delivery
Marwa Hamdi (PhD) and Omar El Kady (PhD)
Academic Events

Conferences

Agenda - Day 2

Sunday, December 13th, 2020

Session 1

COVID-19 Wave preparedness plan
11:00 - 11:45 GMT+2
Dr. Islam Anan
Acbsight Research Offices, Egypt

Safety monitoring for COVID-19 vaccines
11:45 - 12:30 GMT+2
Dr. Hedeer Rostom
International Society of Pharmacovigilance (ISoP), Egypt

Rameda pharmaceuticals: Providing innovative solutions to meet therapeutic needs and challenges
12:30 - 01:00 GMT+2
Dr. Hussien Azmy
Rameda Pharmaceuticals, Egypt

Polypharmacology: Multiple ligands - A challenge for the medicinal chemist
01:00 - 01:30 GMT+2
PD Dr Martin Frotscher
Saarland University, Germany

Coffee break From 01:30 to 02:30 GMT+2
Agenda - Day 2
Sunday, December 13th, 2020

Workshops (in parallel sessions) 04:00 - 06:00 GMT+2

Advanced technologies for stem cell research
Amira Abdelaim (PhD)

Gene expression (RNA Seq) analysis using R programming language
Zeinab Kamel

Introduction to structure-based drug design
Schrödinger

Marketing in pharmaceutical companies
Mostafa Awwad – AstraZeneca

AstraZeneca Schrödinger
Three research projects won the first three places at the 25th Dubai International Conference and Exhibition for Pharmaceuticals and Technology (DUPHAT 2020)
In the framework of continuous advancement related to the latest technology and developments related to Artificial Intelligence and other fields of study, Faculty of Pharmacy encouraged the staff members and students to be AI 900 certified.
Within the initiative supporting of the digital transformation of university staff and students in cooperation with - MSA University and IBM company & Under the auspices of the ministry of communications and information technology to increase the AI techniques literacy among university students and staff, **Dr. Nihal Elsayyad - Department of Pharmaceutics** passed the IBM AI Analyst-Mastery exam.

**Ass.Prof. Reham omar, Department of Pharmacognosy**, passed the exam of DP-900 exam of Microsoft: Official microsoft fundamentals of data engineering DP-900 course as part of implementing phase 4 of MSA AI and digital transformation strategy.
“Day one will lead you to One day”, was on the walls of MSA University, I read this quote on my first day and it was my main motivation to achieve what I am now; working in AstraZeneca. The different courses that I studied throughout the five years have built my capabilities to be unique and differentiated among the other graduates in the market. Now MSA graduates have a very strong reputation in pharmaceutical companies. Thanks to MSA for making me able to say “Am MSAian and proud”

"Choosing MSA as my University has been one of the best decisions I have ever made. It shaped me into becoming someone I aspired to be and led me to become a Trade Marketing Manager for Egypt+ for Bayer consumer Healthcare at such a young age. Studying pharmacy while attending extra-curricular activities helped me create a work balance that I still benefit from till this day. A lot of what I accomplished was because of MSA, thanks to MSA, and I will always be grateful."

"I clearly see that the five years I spent at MSA University were my preparation journey to my career specifically and generally in life. I appreciate the hard times and the good times that helped me gain more confidence in myself to reach where I am now."
"The Faculty of Pharmacy at MSA University was where I Excelled in Pharmaceutical courses that are given exclusively by MSA University. When I began my career as a medical representative at one of the biggest multinational companies, my level of skills and readiness was higher than my other colleagues, this helped me to differentiate myself from others and got me promoted because my experience during the university has already filled the gaps that one has when starting their own career. At MSA you get ready not to be the same but to be the BEST!"

I would like to thank MSA University for everything it taught me which led me now to be one of the best pharmacists at Novartis as I was ranked as one of the top 5 in my team. I graduated from the Faculty of Pharmacy (Class of 2019) and I am currently working at Novartis Pharmaceutical Company. The quality of Education at MSA University is incomparable when am compared with my colleagues. We (MSA graduates) are very well recognized among all employees in the wide sector of the pharmacy field as we can easily compete regionally, nationally, and internationally and still will be very recognized.
"On the first day I set foot in this place, my father told me: "If I were you, I would do my best to complete my career here." In fact, the environment at MSA University was great and everything helped me to learn and shine. Too many courses and activities related to the labor market built my capabilities and gave me the confidence to be unique and distinguished among all graduates. Years of fun and academic learning went by and guess what! Now I'm working in Abbott as a medical representative for cardiometabolic lines."

"MSA University was more like my home with a big family rather than my University. I was honored to be a student in the Faculty of Pharmacy with the great staff of doctors and T.As who helped us to be qualified enough to work in multinational companies with the most updated curriculum, summer internships which were provided by the University, and different student activities. I’m very proud to be one of MSA students, one of its great family members."
"I had the best chances and scores when I applied for my master’s degree at the University of Kent, and that was due to the high level of efficient professional and yet friendly level of Education at MSA University School of Pharmacy. I was always supported by all the Staff. We acted as one big family, and this family still supports me even after I had an opportunity abroad as a medical Advisor."

"It's like starting a race already a few meters at the lead. This is how you feel when you are compared to your peers in the job market. The way of teaching, projects, and assignments. Even the stress sometimes made me more than ready for many things in the professional life. They made people say “yes you are that much professional and well-prepared because you’re an MSA graduate”.

""
"It always seems impossible until it’s done."

Nelson Mandela