

# Faculty of Pharmacy



University

October University for

Modern Sciences and Arts

Established by Dr. Nawal El Degwi in 1996

## Faculty Achievements

2020 - 2021



**The Best British Higher Education in Egypt**

Validated by



**2020 - 2021**

## Organization Committee

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

### Authors

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Biochemistry Department

**A.L Souha Hosam**  
Analytical Chemistry Department

## Dean's Word



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

**"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

## External Examiners and Guests Quotes



**Dr. Yasser El Sayed**

EPICO Labs

Training is an important aspect of learning, so by allowing these students to be exposed to practical experience will make them stand out 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.



**Dr. Omar Abo El Atta**

WHO Office



**Prof. Dr. Nadia Zakhary**

Professor of Biochemistry  
Former Minister of Scientific Research

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 career 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



**Prof. Dr. Hussein Khaled**

Professor of Medical Oncology  
Former Minister of Higher Education

## External Examiners and Guests Quotes



**Dr. Katerina Lalatsa**

Lecturer of Pharmaceutics & Drug  
delivery Greenwich University

I think MSA is a great university, it offers its students many opportunities, both in terms of their education and career development.

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



**Dr. Sally Alsford**

Deputy Head of Educational Development Unit  
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

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



**Dr. Melanie Thorley**

Accessibility Team Coordinator  
Greenwich University



## Extracurricular activities

### EPSF - MSA



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)**



## PHocus Competition



## Extracurricular activities

**EPSF - MSA**



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.



## Extracurricular activities

### Awareness Campaigns

#### EPSF-MSA Awareness Campaigns

#### 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.



## Extracurricular activities

### Awareness Campaigns

#### EPSF-MSA Awareness Campaigns

#### Women's health awareness campaign

An event related to women health either physical or psychological through discussing different topics, Osteoporosis, Domestic violence and harassment.



## Extracurricular activities

### Awareness Campaigns

#### SMC Awareness Campaigns



Members of SMC (**Scientific Microbiology Club**) organized a medical convoy in the Badrashin area from 2<sup>nd</sup> to 10<sup>th</sup> 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



## Extracurricular activities

### Awareness Campaigns

#### Nutrition Awareness Campaigns

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"

<https://www.facebook.com/Health-and-Nutrition-Tips-1677583739187048>







### Nutritional strategies to boost immunity and prevent infection
















UNIVERSITY of GREENWICH

MSA  
University  
October University for  
Modern Sciences and Arts  
Established by the State of Egypt in 1992

## ROLE OF NUTRITION IN

<p>Prevention of Respiratory Tract Infections</p>  <ul style="list-style-type: none"> <li>• Vitamin C</li> <li>• Vitamin D</li> <li>• Omega 3</li> <li>• Zinc</li> </ul>	<p>Prevention of Urinary Tract Infections</p>  <ul style="list-style-type: none"> <li>• Cranberry Sauce</li> <li>• High Fiber Diet</li> <li>• Lactobacilli Rich Food</li> </ul>
<p>Prevention of GIT Infections</p>  <ul style="list-style-type: none"> <li>• Glutamine</li> <li>• Arginine</li> <li>• Probiotics</li> </ul>	<p>Prevention of Covid-19</p>  <ul style="list-style-type: none"> <li>• Vitamin C</li> <li>• Vitamin D</li> <li>• Zinc</li> </ul>

NATURAL STRATEGIES TO BOOST IMMUNITY AND PREVENT INFECTION

<p>VITAMIN A</p>  <p>Carrot</p>  <p>Mango</p>	<p>VITAMIN B</p>  <p>Avocado</p>  <p>Sweet Corn</p>
 <p>Sweet Potatoes</p>  <p>Broccoli</p>	 <p>Tuna</p>  <p>Mushroom</p>
<p>VITAMIN C</p>  <p>Pineapple</p>  <p>Orange</p>  <p>Strawberry</p>  <p>Kiwi</p>	<p>VITAMIN D</p>  <p>Lean Meat</p>  <p>Dairy Products</p>  <p>Cereals</p>



## Clinical nutrition in iron deficiency anemia

**Anemia disease  
Caused by a lack of  
iron**

**IRON**

**Foods rich in iron**

**Home Remedies  
For  
Anemia**

**Foods rich in iron**

**IRON**

**Attention should be eating 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.**

October university of Modern Science & Arts



## Clinical nutrition in infants & allergies

LET'S KNOW MORE ABOUT

### INFANTS NUTRITION

**INFANT'S NORMAL NUTRITION:**

**From birth to 6 months:** Breastfeeding is the only source with vitamin D supplement.

**From 6 to 8 months:** breast feeding, mashed fruits, yoghurt, iron fortified cereals.

**From 8 to 12 months:** Mashed fruits and vegetables, pasteurized cheese by cutting cheese into small pieces, mashed beans, finely chopped meats, Scrambling eggs.

prepared by:  
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### MOST COMMON FOOD ALLERGIES:

**Cow's milk protein allergy**

Food causes this allergy:  

- ✓ Ingestion of cow milk by the powder of breastfeeding baby
- ✓ Usage in formula for bottle feeding babies.

Tips to avoid this allergy:  

- ✓ Extensively hydrolyzed formulas (EHF)
- ✓ Rice protein-based EHF
- ✓ Amino acid-based formula (AAF)
- ✓ Soy-protein formulas.

**Iron Rich Foods**

- Red meats
- White, black and kidney beans
- Lentils
- Chickpeas
- Barley
- Rice
- Fortified cereals
- Spinach, swiss chard
- Tofu, edamame
- Eggs
- Chicken, turkey

**Wheat allergy**

Food causes food allergy:  

- ✓ Breads
- ✓ Cakes and muffins
- ✓ Pasta
- ✓ Cookies
- ✓ Breakfast cereals
- ✓ Couscous

Tips to avoid wheat allergy:  

- ✓ The combination of wheat free flours is used for baking.
- ✓ Grains such as barley, oat, corn or rye instead of wheat are used.

**Herbal medicine for infants:**

**Commonly used:**

- Chamomile, lavender, fennel: mainly for colic.
- Calendula: topically for eczema.
- Thyme: for flu.

**Precautions:**

Seizures occur when infants < 6 months have taken herbs. Allergic reactions occur

Interactions with drugs.

instead of eggs



## Extracurricular activities


### Awareness Campaigns


#### Nutrition Awareness Campaigns

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






**Alzheimer's Disease and its nutrition**  
Faculty of Pharmacy  
Biochemistry department

Prepared by:  
Aman Baki-195237  
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Ammar Asghar Muzammil-195411


#### Introduction


- Alzheimer's is the most common cause of dementia as it is responsible for 60-80% cases of dementia.
- It is a neurological disorder that leads to shrinkage in the size of the brain and cause the brain cells to die.
- Patients with Alzheimer's will suffer from memory loss, having a hard time to focus and think especially in numbers.
- They will have poor decision making and have some noticeable behavioral changes such as: social withdrawal, depression, mood swings, and aggressiveness and even delusions.



#### Nutrition for Alzheimer's

- Leafy Greens**  
Kale, collard greens, spinach, and Swiss chard
- Nuts**  
Pecans, almonds, walnuts, cashews, and peanuts are loaded with healthy fats, magnesium, vitamin E, and B vitamins that promote very well cognition.
- Omega-3s**  
Olive oil, flax seeds, and fatty fish like tuna, salmon, and mackerel.
- Cruciferous Vegetables**  
Broccoli, cauliflower, Brussels sprouts, and other are high in B vitamins and carotenoids which is known to reduce levels of homocysteine — an amino acid linked to cognitive decline, brain atrophy, and dementia.
- Spices**  
Spices like cumin, and cinnamon offer numerous benefits for memory and brain health.
- Seeds**  
Like flax seeds and pumpkin seeds are known to decrease the cognitive decline due to the antioxidants, zinc and Vitamin E and choline it contains.
- Berries**  
Such as blackberries that rich in anthocyanin that inhibits the progression of brain damage induced by free radicals and also it contains antioxidants.





#### Nutrition Risk Factors

- Processes meats and red meats.
- Candy, sweets and desserts.
- Increased excessive alcohol drinking.
- Saturated fatty acids.
- Fast foods with high amount of calories.
- Refined grains.
- Foods rich in high cholesterol.
- Foods with refined sugars.
- Foods with high salt content.

#### References

- Wells, J. 2017. *Healthy Diet Plan for Seniors with Alzheimer's Disease*. [online] Home Care Assistance of Douglas County. Available at: <https://www.douglascountyhomecareassistance.com/healthy-diet-for-seniors-with-alzheimers/>
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- Muski, A. 2019. *11 diet tweaks that could cut your Alzheimer's risk*. Mayo Clinic. Available at: <https://www.mayoclinic.org/diseases-conditions/alzheimers-disease/in-depth/11-simple-diet-tweaks-cut-alzheimers-risk/art-20342313>

# Extracurricular activities

## Awareness Campaigns

### Nutrition Awareness Campaigns



### Nutritional awareness campaign to prevent various cancer types



#### Clinical nutrition of cancer patients

#### Overview of Nutrition in cancer care

- Good nutrition is important for cancer patients.
- Healthy eating habits are important during and after cancer treatment.
- A registered dietitian is an important part of the healthcare team.
- Cancer and cancer treatment may cause side effects that affect nutrition.
- Cancer and cancer treatment may cause malnutrition.
- Anorexia and cachexia are common causes of malnutrition in cancer patients.

#### Nutrition Assessment in Cancer Care

- The healthcare team may ask questions about diet and weight history.
- Counseling and diet changes are made to improve the patient's nutrition.
- The goal of nutrition therapy for patients who have advanced cancer depends on the overall plan of care.

- Weight changes over the past year.
- Changes in the amount and type of food eaten.
- Problems that have affected eating.

#### Treatment of Symptoms

- **Anorexia:**
  - Eat foods that are high in protein and calories.
  - Sip only small amounts of liquids during meals.
  - Try blended drinks that are high in nutrients.
- **Vomiting:**
  - Do not eat or drink anything until the vomiting stops.
  - Drink small amounts of clear liquids after vomiting stops.
  - Eat or drink small meals every day instead of large meals.
- **Dry mouth:**
  - Moisturize with water, gummy, or saliva chewing.
  - Eat foods and drinks that are very sweet or tart to help make more saliva.
  - Sip water throughout the day.
  - Do not eat foods that can burn your mouth.
- **Taste Changes:**
  - Eat poultry, fish, eggs, and cheese instead of red meat.
  - Eat meat with something sweet.
  - Try to eat your favorite foods, if you are not saturated.
  - Find creative, high-protein recipes.
  - Chew food longer to allow more contact with taste buds.

#### Types of nutrition support

- Nutrition support helps patients who cannot eat or digest food normally.
- Nutrition support can be given in different ways.
  - Enteral Nutrition.
  - Parenteral nutrition is also called tube feeding.
  - Parenteral nutrition carries nutrients directly into the blood stream.



### Clinical Nutrition for women over 40-awareness campaign



#### clinical nutrition for women over 40

**Vitamin B12 plays a major role in maintaining normal blood and brain functioning.**

**Calcium plays a major role in maintaining bone health, muscle contractions, nerve, heart functioning and prevention from osteoporosis.**

**Vitamin D plays a vital role in calcium absorption, deficiency in Vitamin D increases the risk of diabetes, heart diseases, breast and colorectal cancers.**

**Magnesium stabilizes the blood pressure. It helps the body absorb calcium and promote the muscle, nerve and heart functions. Magnesium deficiency increases the risk of diabetes, inflammation, and heart disease.**

**Overweighting and obesity occur due to estrogen deficiency. The abdominal mass, fats and fracture risk increase while body muscles, collagen synthesis, bone mineral content and proteins decrease.**

**Omega 3 fatty acids aids in preventing heart disease, cognitive decline, lowering cholesterol levels, reducing the risk of stroke, and boosting the memory.**

**Healthy food and exercises are need to reduce obesity. Hormonal therapy could be taken at the lowest effective dose and for short duration of time to estrogen-induced diseases.**




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## Extracurricular activities

### Field trips

#### L'Oreal Egypt factory Field Trip

**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.



## Extracurricular activities

### MSA - WHO



**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.



**During the quarantine we were able to hold several online campaigns to increase the awareness for people about the new pandemic and how to face it; through several instructions and broad information to make them updated with every single new update the world had discovered about the COVID-19 ( March 2020 – July 2020)**



## Extracurricular activities

### MSA - WHO

### Awareness Campaigns

**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.



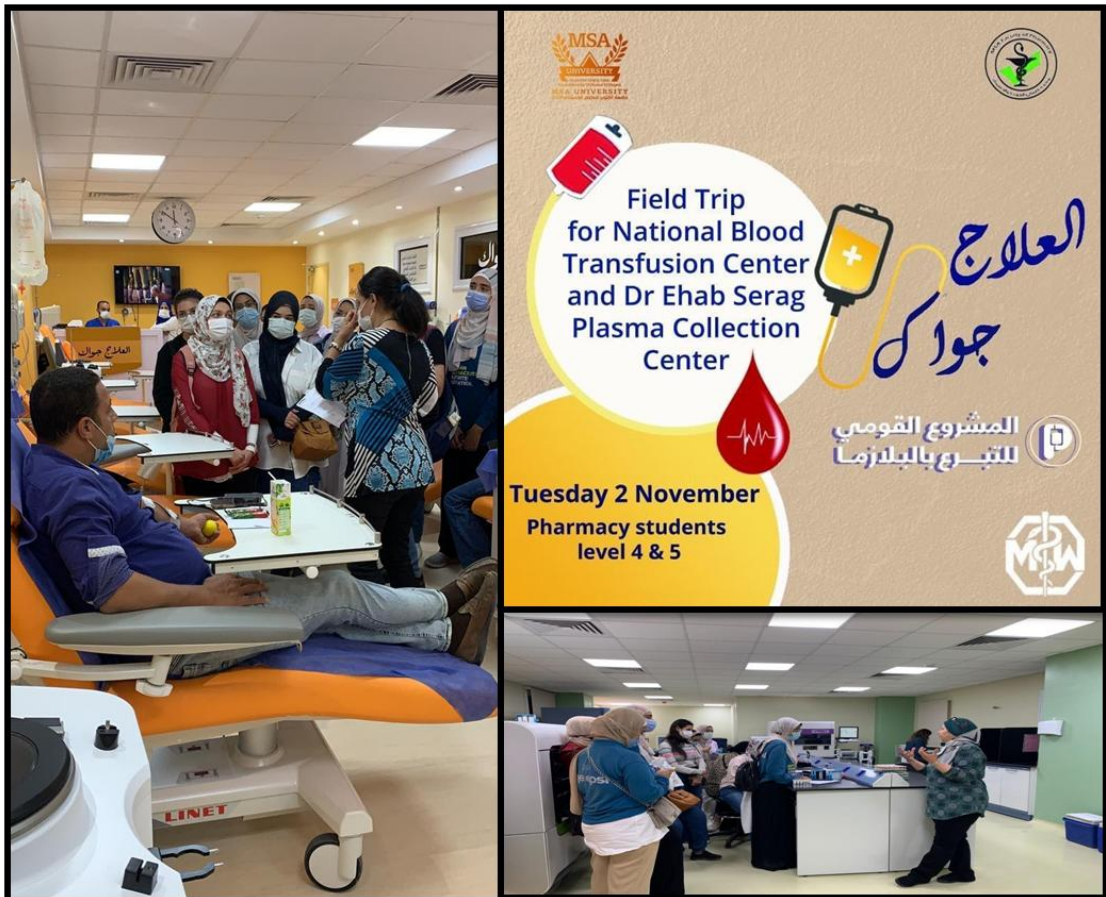
## Extracurricular activities

### MSA - WHO

### Awareness Campaigns

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 جوارك"**, 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



## Extracurricular activities

### MSA - WHO

### Awareness Campaigns

A campaign to raise awareness of the importance of vaccination against the Covid-19 virus at the Organo Factory in 6th of October City.



## Extracurricular activities

### MSA - WHO

### Awareness Campaigns

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





## Extracurricular activities

### MSA - WHO

#### Conferences

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"**



## Extracurricular activities

### MSA - WHO

### Conferences



#### MSA MWHO Second Annual international Conference 2021

Sunday, Monday 17 - 18<sup>th</sup> October, 2021

#### “Vaccination of COVID-19 and its impact worldwide”

This year's theme, where we will host prominent speakers to increase the awareness about COVID-19 pandemic and its vaccination and shed a light on the current updates regarding the global issue



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.



## Academic Events

### Scientific Day

#### 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.

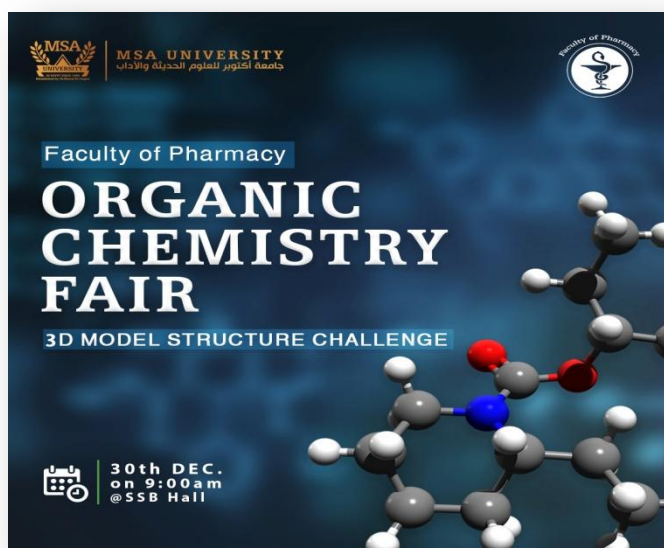


## Academic Events

### Scientific Day

#### 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.



## Academic Events

### Conferences

#### **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 pharmaceutical 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.

**MSA UNIVERSITY**  
FACULTY OF PHARMACY

# PHARMACISTS IN FRONTLINES

## NEW CHALLENGES & INNOVATIVE SOLUTIONS

**12-13 Dec. 2020**

zoom

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

 Prof. Dr. David M. Aronoff Vanderbilt University Medical Center United States of America	 PD Dr. Martin Frotzcher Bairland University Germany	 Dr. Simon Richardson University of Greenwich United Kingdom	 Dr. Katerina Lalitas University of Portsmouth United Kingdom	 Dr. Hazem E. Haasan Regeneron Pharmaceuticals United States of America	 Dr. Omar Abousetta World Health Organization (WHO) Egypt	 Dr. Islam Anen Founder and CEO of Accaight research Egypt
 Prof. Dr. Rania Hathout Ain Shams University Egypt	 Dr. Hussien Azmy Ramada Pharmaceutical Company Egypt	 Dr. Gihan Hamdy El-Sial Managing Director, HTA Office, President of ISO9001 Egypt Chapter, Middle East and North Africa Egypt	 Dr. Hadeer Rostom Pharmacovigilance Egypt	 Engineer Youary Atim Huawei Egypt	 Engineer Medhat Mahmoud Chief digital transformation officer, Huawei Egypt	

zoom AstraZeneca SCHRODINGER rameda HUAWAI

## Academic Events

### Conferences




# PHARMACISTS IN FRONTLINES

## NEW CHALLENGES & INNOVATIVE SOLUTIONS

12-13

Dec.2020

### Agenda-Day 1

Saturday, December 12<sup>th</sup>, 2020

Opening Session

	<p style="font-weight: bold; font-size: 16px;">Welcome to the MSA University</p> <p style="font-weight: bold; font-size: 14px;">Prof. Dr. Khairy Abdel Hamid MSA University -President</p>	<p style="font-weight: bold; color: green; font-size: 14px;">10:30 - 11:00 GMT+2</p>
	<p style="font-weight: bold; font-size: 16px;">Welcome to the Faculty of Pharmacy</p> <p style="font-weight: bold; font-size: 14px;">Prof. Dr. Hanan El Laithy Faculty of Pharmacy - Dean</p>	<p style="font-weight: bold; color: green; font-size: 14px;">10:30 - 11:00 GMT+2</p>
<p style="background-color: white; border-radius: 10px; padding: 5px; display: inline-block;">Session 1</p>		
	<p style="font-weight: bold; font-size: 16px;">Antiviral siRNA delivery using recombinant proteins and exosomes</p> <p style="font-weight: bold; font-size: 14px;">Dr. Simon Richardson University of Greenwich, UK</p>	<p style="font-weight: bold; color: green; font-size: 14px;">11:00 - 11:30 GMT+2</p>
	<p style="font-weight: bold; font-size: 16px;">Nanomedicines for brain diseases and cancers</p> <p style="font-weight: bold; font-size: 14px;">Dr. Katerina Lalatsa University of Portsmouth, UK</p>	<p style="font-weight: bold; color: green; font-size: 14px;">11:30 - 12:00 GMT+2</p>



## Academic Events

### Conferences

#### Agenda-Day 1

Saturday, December 12<sup>th</sup>, 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



## Academic Events

### Conferences

#### Agenda-Day 1

Saturday, December 12<sup>th</sup>, 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 Goma (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 13<sup>th</sup>, 2020

**Session 1**

	<b>COVID-19 Wave preparedness plan</b> <b>Dr. Islam Anan</b> Accsight Research Offices, Egypt	<b>11:00 - 11:45</b> GMT+2
	<b>Safety monitoring for COVID-19 vaccines</b> <b>Dr. Hadeer Rostom</b> International Society of Pharmacovigilance (ISoP), Egypt	<b>11:45 - 12:30</b> GMT+2
	<b>Rameda pharmaceuticals: Providing innovative solutions to meet therapeutic needs and challenges</b> <b>Dr. Hussien Azmy</b> Rameda Pharmaceuticals, Egypt	<b>12:30 - 01:00</b> GMT+2
	<b>Polypharmacology: Multiple ligands - A challenge for the medicinal chemist</b> <b>PD Dr Martin Frotscher</b> Saarland University, Germany	<b>01:00 - 01:30</b> GMT+2

**Coffee break From 01:30 to 02:30 GMT+2**



## Academic Events

### Conferences

#### Agenda-Day 2

Sunday, December 13<sup>th</sup>, 2020

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



Advanced technologies for stem cell research

Amira Abdeldaim (PhD)



Gene expression (RNA Seq) analysis using  
R programming language

Zeinab Kamel

SCHRÖDINGER.

Introduction to structure-based drug design

Schrödinger

AstraZeneca

Marketing in pharmaceutical companies

Mostafa Awwad – AstraZeneca



## Academic Events

### Conferences

Three research projects won the first three places at the 25th Dubai International Conference and Exhibition for Pharmaceuticals and Technology **(DUPHAT 2020)**



## Academic Events

### Awards

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.



## Academic Events

### Awards

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.

## Alumni's Quotes

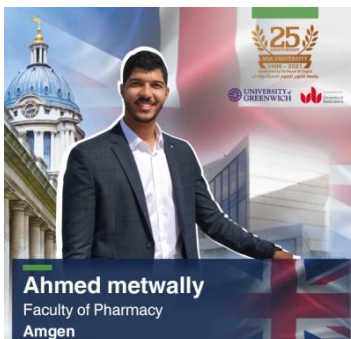


# The Alumni



“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 Alumni

"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.



# The Alumni



"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."







# The Alumni

"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".



## Faculty of Pharmacy

*"It always seems impossible until it's done."*

**Nelson Mandela**