

Mansoura University

Faculty of Pharmacy

Pharmacognosy Department



## Pharmacognosy Department Guide

**2021/2020**

## **Introduction**

The Department of Pharmacognosy, Faculty of Pharmacy, Mansoura University was established in 1970 under the direct supervision of the Department of Pharmacognosy, Faculty of Pharmacy, Cairo University. At the present time, the Department of Pharmacognosy is the largest scientific department in the Faculty of Pharmacy and teaches students from the first level to the Bachelor's degree. The department includes a large number of staff members and their assistants. The department also includes an administrative structure consisting of three secretaries, in addition to seven technicians and seven workers. The pharmacognosy department is located in Educational Building (A) on three floors (third, fourth and fifth) and includes six laboratories for students and six research laboratories in addition to two laboratories for biological studies.

The department teaches courses that include methods of collecting drugs of natural origin (plant, animal, marine organisms, microorganisms), storing them, separating their components, identifying them and preparing them for use in the formulation of pharmaceutical preparations, studying different methods of analysis and qualitative control of herbal preparations, as well as the foundations of herbal treatment as one of the methods of supplementary and alternative medicine. The department is also interested in improving the effectiveness of natural compounds with biological activities in terms of chemical and metabolic stability, as well as reducing the toxicity rate and side effects. The aforementioned improvement process is carried out by making some minor changes to the structure of the natural compound, using microbes or through chemical reactions. For this purpose, the department teaches various fields, including drug preparation for medicinal use, methods of evaluation, chemical and biological construction and the study extends to include some biological activities of natural products such as antioxidants, anti-cancers, enzymes (yeasts), vaccines and serums, as well as plant tissue culture, and a new laboratory for endophytes to produce natural products with a medicinal effect from it.

Through his studies in the department, the student is acquainted with the methods of cultivating medicinal plants to obtain the largest percentage of the active constituents, the methods used in the chemical and biological survey of medicinal plants, and the extent of the impact of the environment on the active constituents. The department also takes an active part in teaching clinical pharmacy programs, as the department teaches eight basic courses from the first to the fourth level, in addition to teaching elective courses. The department in this program is distinguished by allocating a special laboratory for practical study. In order to deepen the concept of integration in the study plan, the department participates through its core courses in addition to the areas of professional choice in teaching food analysis and methods of identifying drugs, toxins and stimulants. At the postgraduate level, the department offers a diploma, master's and PhD program in pharmaceutical sciences (Pharmacognosy), as well as advanced research programs aimed at preparing male and female students who contribute to the application of the scientific method for studying and exploiting medicinal plants and natural products available in the local environment.

We hope that God will help us to fulfill the department's mission in a manner worthy of the college and university's position.

Head of Department

**Prof. Mona Goda Zaghloul**

**The email of department**

**pharmacognosy.department@yahoo.com**

**Faculty Vision**

**To achieve leadership in education, research, and community service in all pharmaceutical domains, locally and regionally.**

### **Faculty Mission**

**The Faculty of Pharmacy, Mansoura Univ. is committed to progression and continuous development of the educational process, post-graduate studies, research programs and community service; aiming to graduate distinct pharmacists who assemble the needs of local and regional market, and researchers of competitive level, in the framework of academic standards and community values.**

### **Department Vision**

**Achieving distinctive position in the areas of education, research, and community services. Hence, improving the international ranking of faculty of pharmacy and university of Mansoura.**

### **Department Mission**

**Contributing to a distinctive educational institute and competitive graduates. Making a connection between academic research and community needs. Exploitation of natural resources and environmental wastes as sources in pharmaceutical industry.**

Head of Department

**Prof. Mona Goda Zaghloul**

# **Scientific and functional structure of the Department of Pharmacognosy**

## **1- The names of the heads of the pharmacognosy department**

- Prof. Dr. Ahmed Fouad Halim (Acting Head of the Department 1976 - 1981)

(Head of the Department 1981 -1986, 1989 - 1991, 1994 - 2001)

- Prof. Dr. Mohamed Safwat Atta Afifi (1986-1989, 2001-2002)
- Prof. Dr. Osama Mustafa Salama (1991 - 1994)
- Prof. Dr. Sayed Shaker Ahmed Mansour (2002 - 2005)
- Prof. Dr. Mohamed Mahmoud Abdel Fattah Amer (2005 - 2007)
- Prof. Dr. Farid Abdel Rahim Badria (2007 - 2010, August 2013 - July 2015)
- Prof. Dr. Ahmed Aboul Gheit Gohar (August 2010 - June 2013)
- Prof. Dr. Sahar Refaat Jadara (September 2015- until 31/7/2016)
- Prof. Dr. Mona Gouda Zagloul (13/2/2018 until now)

A photo of the staff members in the department



## 2- The teaching staff members

No	Name	occupation	Date of hiring	Notes
1	Prof. Ahmed Fouad Ahmed Ibrahim Halim	Emeritus prof.	18/2/2001	
2	Prof. Dr. Mohamed Farid Ibrahim Mohamed Lahloub	Emeritus prof.	17/1/2003	
3	Prof. Dr. Mohamed Mahmoud Abdel Fattah Amer	Emeritus prof.	7/6/2003	
4	Prof. Dr. Saleh Hassan Saleh Al-Sharqawi	Emeritus prof.	14/7/2009	
5	Prof. Dr. Sayed Shaker Ahmed Mansour	Emeritus prof.	27/7/2009	
6	Prof. Dr. Hassan Al-Radi Ali Saad	Emeritus prof.	18/5/2010	
7	Prof. Dr. Madiha Amin Hassan	Emeritus prof.	14/12/2010	
8	Prof. Dr. Ahmed Aboul Gheit Ahmed Gohar	Emeritus prof.	20/10/2012	
9	Prof. Ashraf Taha Mohamed Khalil	Emeritus prof.	17/6/2013	
10	Prof. Dr. Ahmed Mohamed Mohamed Khalil Zagloul	Emeritus prof.	15/7/2013	
11	Prof. Dr. Farid Abdel Rahim Abdulaziz Badria	Emeritus prof.	19/11/2015	
12	Prof. Dr. Galal Taha Maatouk Abdel Hai	Emeritus prof.	27/4/2017	Secondment
13	Prof. Dr. Atallah Fouad Ali Ahmed	Emeritus prof.	24/12/2016	Wife accompany
14	Prof. Dr. Khaled Abdel Atti Obaid	Professor	20/1/2004	Wife accompany
15	Prof. Mona Gouda Mohamed Zagloul	Professor and head of department	28/11/2007	
16	Prof. Dr. Ali Ali Hassan El-Gamal	Professor	26/5/2008	Wife accompany
17	Prof. Dr. Sahar Refaat Mustafa Gadra	Professor	30/3/2015	Secondment
18	Prof. Dr. Amani Mukhtar Ahmed Marzouk	Professor	27/1/2016	Secondment

19	Dr. El-Sayed Mahdi Marwan	Associate prof.	11/8/2011	
20	Dr. Hani Nashaat Mohamed Shawky Baraka	Associate prof.	30/4/2012	Secondment
21	Dr. Fatima Mohamed Abdul Rahman Abdul-Barr	Professor	28/8/2020	Secondment
22	Dr. Mahmoud Fahmy El Sebaei Mustafa	Associate prof.	28/2/2017	
23	Dr. Qadriya Fawzy Mohamed Ahmed Ibrahim	Associate prof.	19/7/2017	
24	Dr. Wael El-Sayed Mohamed Hussein Ibrahim	Associate prof.	27/1/2014	Scientific mission
25	Dr. Zien El Abidine Metwally Naim	Lecturer	25/3/2014	
26	Dr. Nadia Al-Baili Youssef Hashish	Lecturer	30/7/2008	Secondment
27	Dr. Amal Abdel Hamid Hassan Galalah	Associate prof.	23/1/2018	
28	Dr. Amal Ahmed Hamdi Atwa Salam	Associate prof.	23/1/2018	
29	Dr. Wiaam Nabil El-Sayed Ibrahim	Associate prof.	30/9/2017	
30	Dr. Ahmed Awad Zaki Bayoumi Awad	Associate prof.	29/10/2018	Secondment
31	Dr. Ahmed Adel Ashour Mohamed	Associate prof.	28/6/2019	Secondment
32	Dr. Fathi Abdel Mohsen Abdel Halim Behairy	Lecturer	27/5/2013	Wife accompany
33	Dr. Marwa Al-Sebaei Ali Abu Al-Layl	Associate prof.	24/2/2020	
34	Dr. Mona Farouk Metwally Al-Neqiti	Associate prof.	27/4/2020	
35	Dr. Amira Shawky Ahmed Musharraf Mira	Associate prof.	30/11/2020	
36	Dr. Asmaa El-Sayed Mohamed Sharif	Lecturer	28/12/2015	Secondment
37	Dr. Walaa Kamel Maati Muhammad Musa	Lecturer	26/4/2017	Baby care
38	Dr. Yhiya Yhiya Mohamed Amin Al-Diaasti	Lecturer	18/6/2017	
39	Dr. Amal Fathy Soliman Ahmed Shehata	Lecturer	28/8/2018	
40	Dr. Walaa Mohamed Safwat Saad Al-Din	Lecturer	29/10/2018	
41	Dr. Sarah Ahmed Abdullah Abu Zeid	Lecturer	29/10/2018	



42	Dr. Ahmed Al-Saeed Badir Ali Al-Barmawi	Lecturer	28/10/2019	
43	Dr. Iman Mohamed Mustafa Mohamed Hassanein Al-Attar	Lecturer	21/4/2020	
44	Dr. Iman Ezzat Abdel Hamid Hilal	Lecturer	19/5/2020	
45	Dr. Reham Mohamed Al-Saeed Hamed	Lecturer	22/12/2020	

### **3- Teaching staff assistants**

No	Name	Occupation	Date of hiring	Notes
1	Gehad Abdel Wahab Ibrahim Ali	Assistant lecturer	27/12/2018	
2	Walid Amir Sabri Musa Khalil	Assistant lecturer	27/12/2020	
3	Amira Abdullah Abdullah Al-Qattan	Assistant lecturer	24/2/2020	
4	Abdullah Mohamed Ali Heikal	Assistant lecturer	-----	
5	Noran Hussein Raafat Abdel Fattah	Assistant lecturer	-----	
6	Iman Ezz Abdel Moneim Abu Al-Enin	Demonstrator	2/11/2016	
7	Radwa Abdel Rahim Mustafa	Demonstrator	15/6/2018	
8	Nada Abdel Ghani Hefni Metwally	Demonstrator	15/6/2018	
9	Mahmoud Soliman Mohamed Mustafa	Demonstrator	2/3/2019	
10	Manar Munir Yousry Mohamed Hassan Askar	Demonstrator	15/6/2019	
11	Mai Majid Ahmed Kamel Daif	Demonstrator	15/6/2010	
12	Alaa Abdul Muti Al-Bahi Mohamed Salem	Demonstrator	15/6/2019	

## Statistics of faculty members and support staff

		On the job	Permissions	Total
Professor	Free	11	2	13
	worker	1	6	7
Assistant Professor	Free	1	---	1
	worker	7	5	12
Lecturer	Lecturer	8	5	13
Total faculty members		28	18	46
Support staff	Assistant Lecturer	3	---	3
	Demonstrator	7	2	9
Total support staff		10	2	12
Total (faculty members + support staff)		38	20	58

## Department workers

### Administrators

	Name	Notes
1	Mrs. Walaa Mahmoud Naguib Al-Zeftawi	childcare leave
2	Mr. / Ahmed Mohamed Syed Ahmed Abdullah	
3	Mrs. Basma Alaa El Din Abdel Jalil	

### Technicians

	Name	Notes
1	Mr. Saad El-Sayed Salem	Farm supervisor
2	Mr. Mohamed Jamil Mohamed	
3	Mr. Ahmed Abbas Ibrahim Abbas	
4	Mrs. Elham Rashad Sayed Ahmed	Full assignment

5	Mr. / Mohamed Hilal Abdel-Zaher	
6	Mrs. Azza El-Sayed Mohamed El-Baz	
7	Mrs. Zahira Alaa Sobh	

### Laborers

	Name	Notes
1	Mohamed Ali Ali Al-Shahat	
2	Mustafa Ibrahim Al-Sayed Laila	
3	Kamal Sobhi Ali Al Morsi	
4	Mohamed Farhat Al-Derini	
5	Ola Mansour Madin	
6	Hanan Mohamed Mohamed Salamah	
7	Sharifa Mohamed Yousry	

### Statistics of the department's employees

	On the job	Permissions	Total
<b>Administrators</b>	2	1	3
<b>Technicians</b>	7	---	7
<b>Laborers</b>	7	---	7
<b>Total</b>	16	1	17

## **The subjects taught by the department**

The department teaches drugs to the students of the College of Pharmacy in its five years, and this is through a plan developed commensurate with the development of the intellectual level of students each year and also based on giving a dose of basic sciences to achieve the goal of knowing the student with everything necessary to interact with the surrounding environment after his graduation.



**Student laboratories in Pharmacognosy Department**



**Chemical preparation laboratories of Pharmacognosy Department**

**1-Subjects taught by the department for the bachelor's degree**  
**(credit hour system)**

<b>Course Name</b>	<b>Course content</b>
Medicinal plants <b>PG 111</b>	The course includes the study of plant tissues, cell contents and classification of the plant kingdom.
Pharmacognosy 1 <b>PG 122</b>	The course includes an introduction to pharmacognosy and a study of examples of some parts of medicinal plants (leaves, flowers, bark and wood).
Pharmacognosy 2 <b>PG 213</b>	The course includes a study of examples of some parts of medicinal plants (seeds, fruits and herbs).
Pharmacognosy 3 <b>PG 224</b>	The course includes a study of examples of some parts of medicinal plants (underground parts), unclassified plants and materials extracted from animals.
Phytochemistry 1 <b>PG 315</b>	The course includes the study of the primary products of plant metabolism: active substances of natural origin (carbohydrates, glycosides, and tannins).
Phytochemistry 2 <b>PG 326</b>	The course includes the study of the primary products of plant metabolism: active substances of natural origin (alkaline compounds, volatile oils, products extracted from marine organisms and natural toxins).
Phytotherapy <b>PG 417</b>	The course includes studying the medicinal uses of herbs and studying the quality control of these plants.
Pharmaceutical nutritional materials <b>PG 518</b>	The course includes the classification of foodstuffs into: (nutritional supplements, vitamins and minerals, flavonoids, phenols, carotenoids, functional and medical foods).
Bitechnology	The course includes a study of an introduction to plant tissue culture (the tools and methods

**PG 519**

used) and a study of examples of natural medicines produced through plant tissue culture.

**2- Subjects taught by the department for the bachelor's degree (Pharm D)**

- Medicinal plants **PG111**
- Pharmacognosy 1 **PG122**
- Pharmacognosy 2 **PG 213**

**1- Subjects taught by the department for the bachelor's degree (regulation of the academic year)**

• **Third level (Phytochemistry)**

In it, the chemical nature of the active substances from various medicinal plants mentioned in the pharmacopoeia, methods of separating and identifying them chemically and studying their pharmacological effect and the degree of toxicity are studied.

• **Fourth level (Phytotherapy)**

Here comes the applied role of what has been previously studied, where the methods of separating secondary materials from medicinal plants are studied and identified by different methods, and then studying their composition, chemical structure and methods of synthesis in plants, and then comes the role of biotechnology to produce the desired materials and increase the percentage of their formation in the concerned plants or prepare derivatives of them using biotechniques.

**2- Subjects taught by the department in the clinical pharmacy program**

1- Medinal plants ( <b>PG101</b> )	2- Phytochemistry 1 ( <b>PG404</b> )
3- Pharmacognosy 1 ( <b>PG202</b> )	4- Phytochemistry 2 ( <b>PG505</b> )
5- Pharmacognosy 2 ( <b>PG303</b> )	6- Quality control of herbal drugs ( <b>PG606</b> )
7- Phytotherapy ( <b>PG807</b> )	8- Alternative medicine ( <b>PE8</b> )

**3- Subjects that the department supervises**

The department supervises the teaching of English at the first level.

**4- Formation of examination committees for the pre-doctoral for the first semester 2020/2021 in accordance with the regulations for postgraduate studies 2014 in the credit-hour system as follows: -**

<b>PhD</b>	
1- Biotechnology and genetic engineering I	Prof. Dr. Ahmed Aboul Gheit Gohar Dr. Amal Fathy Soliman
2- Applications to derive the structural structure of natural products	Dr. Zine El Abidine Metwally Naim Dr. Eman Ezzat Abdel Hamid Hilal

**5- Formation of pre-master's and doctoral teaching committees for the second semester 2020/2021 in accordance with the Graduate Studies Regulations 2014 with the credit-hour system as follows: -**

<b>Masters</b>	
<b>Course Name</b>	<b>The Commission</b>
Modern applications of chromatographic methods of natural products	Prof. Dr. Ahmed Mohamed Zaghloul Dr. Qadriya Fawzy Mohamed Dr. Mona Farouk Metwally Al-Naqiti
Applications of advanced spectroscopic methods	Ass. Prof. Dr. Marwa El Sebaei Ali Dr. Reham Mohamed Al-Saeed Hamed
Biological tests	Prof. Dr. Farid Abdel Rahim Badria Dr. Sarah Ahmed Abdullah Abu Zeid
Herbal medicine	Prof. Dr. / Mr. Shaker Mansour Dr. Zine El Abidine Metwally Naim
<b>PhD</b>	
Biotechnology and genetic engineering II	Prof. Dr. Ahmed Aboul Gheit Gohar Dr. Amal Fathy Soliman
Discovery and design of medicines from natural products	Dr. Amal Abdel Hamid Hassan Galalah Dr. Amal Ahmed Hamdi Atwa Salam

**Awards received by the faculty members in the department**

**1- University Award for Scientific Excellence**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Prof. Dr. Ahmed Mohamed Zaghloul	Professor	2000/2001	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Professor	2007	Pharmacognosy

**2- Various international and international awards**

<b>Name</b>	<b>The prize</b>	<b>Its date</b>	<b>Scientific Field</b>
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Prof. Dr. Farid Abdel Rahim Badria	Al-Khwarizmi International Prize in Medical Sciences	2001	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Distinguished Arab Scientists Award	2003/2004	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Gold Medal from the World Intellectual Property and Patent Organization (WIPO) - America - as the best Egyptian inventor in the field of pharmaceutical and medical sciences	2011	Pharmacognosy

### **3- State Incentive Award**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Prof. Dr. Saleh Hasan Al-Sharqawy	Professor	1995	Biological Sciences
Prof. Dr. Farid Abdel Rahim Badria	Professor	1996	Biological Sciences (Pharmacognosy)

### **4- State Prize for Scientific Excellence**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Prof. Dr. Farid Abdel Rahim Badria	Professor	2001/2002	Pharmacognosy
Mr. Dr. / Khaled Abdel Atty Obaid	Professor	2001/2002	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Professor	2007	Pharmacognosy

### **5- Medal of Excellence, first class**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>
Prof. Dr. Farid Abdel Rahim Badria	Professor	1997



#### **6- University award for best thesis (PhD)**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Prof. Osama Bashir Abdel Halim	Professor	1994/1995	Pharmacognosy
Prof. Dr. Ali Ali Hassan El-Gamal	Professor	1998/1999	Pharmacognosy
Dr. Sahar Refaat Mostafa Gedara	Professor	2003/2004	Pharmacognosy
Dr. Fatima Mohamed Abdul Rahman Abdul-Barr	Ass. Professor	2011	Pharmacognosy

#### **7- The University Award for Best Thesis (Masters)**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Dr. Sahar Refaat Mostafa Gedara	Professor	1995/1996	Pharmacognosy
Dr. Amal Ahmed Hamdi Atwa Salam	Lecturer	2006/2007	Pharmacognosy

#### **8- University Incentive Award**

<b>Name</b>	<b>Occupation</b>	<b>Its date</b>	<b>Scientific Field</b>
Prof. Dr. Mohamed Farid Ibrahim Mohamed Lahlob	Professor	1989/1990	Pharmacognosy
Prof. Dr. Saleh Hasan Al-Sharqawy	Professor	1991/1992	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Professor	1997	Pharmacognosy
Prof. Dr. Farid Abdel Rahim Badria	Professor	2007	Pharmacognosy
Dr. Amani Mukhtar Ahmed Marzouk	Ass. Professor	2009	Pharmacognosy
Dr. Hani Nashat Mohamed Shawky Baraka	Ass. Professor	2011	Pharmacognosy
Dr. Mahmoud Fahmy El Sebaei	Professor	2015	Pharmacognosy
Dr. Weaam Nabil El-Sayed Ibrahim	Ass. Professor	2018/2019	Pharmacognosy

### 9- University Appreciation Award

Name	Occupation	Its date	Scientific Field
Prof. Dr. Ahmed Fouad Ahmed Halim	Professor	1995	Pharmacognosy

### 10- The names of the faculty members who have obtained patents

Name	Occupation	Number of Patents	Scientific Field
Prof. Dr. Farid Abdel Rahim Badria	Professor	18	Pharmacognosy
Dr. Fathy Abdel Mohsen Behairy	Lecturer	1	chemistry of natural products
Dr. Mahmoud Fahmy El Sebaei	Lecturer	1	Pharmacognosy

### The names of the faculty members and their assistants who attended conferences - scientific visit - training courses During the year 2019 to 2020 in the Department of Pharmacognosy

No.	The name	Title of Conference/Training Course	Organization / venue
1	Prof. Dr. Farid Abdel Rahim Badria	The International Conference ICFAM (Indonesian Society on Functional Medicine Advances) establishes the "Third Annual Education and Career Development of Medicine"	February 23 to March 5, 2019, in Jakarta - Indonesia
2	Prof. Dr. Hassan Al-Radi Ali Saad	14th International Conference on Chemistry and its Role in Development ICCRD 14	Mansoura University-Hurghada, Egypt, March 25-28,2019
3	Prof. Dr. Mona Gouda Zagloul	2nd International Conference of pharmaceutical science (MU-PHARM,2019)	9 <sup>th</sup> -12 <sup>th</sup> April 2019, Faculty of Pharmacy - Mansoura University and AinSokhna

4	Prof. Dr. Wiam Nabil El-Sayed Ibrahim	2nd International Conference of pharmaceutical science (MU-PHARM,2019)	9 <sup>th</sup> -12 <sup>th</sup> April 2019, Faculty of Pharmacy - Mansoura University and AinSokhna
		Egypt - Japan Multidisciplinary Science Forum "Natural Products and Discovery of New Drugs and Agrochemicals"	Alexandria Library, inviting three Japanese professors and one British professor (15, February 2020)
5	Prof. Madiha Amin Hassan	2nd International Conference of pharmaceutical science (MU-PHARM,2019)	9 <sup>th</sup> -12 <sup>th</sup> April, 2019, Faculty of Pharmacy - Mansoura University and AinSokhna
6	Dr. Mona Farouk Metwally El-Neketi	2nd International Conference of pharmaceutical science (MU-PHARM,2019)	9 <sup>th</sup> -12 <sup>th</sup> April, 2019, Faculty of Pharmacy - Mansoura University and AinSokhna

### **Masters and PhD theses awarded during the year 2019 to 2021**

No.	Student name	Title	Type	Supervisors
1	Ahmed El-Said Bedir El- Bermawi	Bioactive natural products from family Solanaceae and endophytic fungi from desert plants	PhD	Prof. Dr. Ahmed Fouad Halim (main supervisor) Prof. Dr. Shaker Mansour Dr. Qadriya Fawzy Muhammad
2	Eman Mohamed Mostafa Elattar	Utilization of click chemistry in developing some new natural product analogue	PhD	Prof. Dr. Hassan Al-RadyAli Saad Prof. Dr. Farid Abdel Rahim Badria (main supervisor) Dr. Amal Abdel Hamid Hassan Galala

3	Iman Ezzat Abdel-Hamed Helal	Investigation of some unorganized drugs as a potential source of biologically active compounds	PhD	Prof. Dr. El-Sayed Shaker Mansour (main supervisor) Prof. Dr. Ahmed Mohamed Zaghloul Dr. Marwa Elsbaey Ali
4	Reham Mohamed Al- Saeed Hamed	Bioactive compounds from selected antiviral and cytotoxic plants	PhD	Prof. Dr. Ahmed Mohamed Zaghloul (main supervisor) Prof. Dr. Madiha Amin Hassan Tawfek Dr. Ahmed Awad Zaki
5	Menna Tallah Ibrahim Ahmed Awed El- shorbagy	Rosemary : A potential natural source for diverse bioactive compounds	Master (external)	Prof. Dr. Mohamed Farid Ibrahim Lahloub (main supervisor) Dr. Hani Nashaat Baraka Dr. Marwa Elsbaey Ali
6	Aisha Maher Gabr Nadar	Chemical and biological study of some natural resins and their derivatives	Master (external)	Prof. Dr. Mohamed Farid Ibrahim Lahloub Prof. Dr. Madiha Amin Hassan Tawfek Prof. Dr. Farid A. Badria Dr. Amal A, Galala
7	Rowida Mahmoud Omar	Isolation and characterization of bioactive compounds from natural sources with some enzyme inhibitory activities	Master (external)	Prof. Dr. Farid A. Badria (main supervisor) Dr. Amal A, Galala
8	Amira Abdalla Abdalla Elkattan	Olive : A Chemical and Biological Stud	Master	Prof. Dr. Ahmed A. A. Goher Prof. Dr. Mohamed M. A. Amer Dr. Zain-Elabdin M. Naeem
9	Mahrous HeshamElsayed Mahrous	Use of citrus fruit peels for production of chemicals and pharmaceutica	Master (external)	Prof. Dr. Saleh Hassan Elsharkawy (main supervisor) Prof. Dr. Fathy Kandeel Elfiky Dr. Ahmed Ashour

10	Walid Amir Sabry Moussa	Phytochemical investigation of Polyalthia longifolia, Annonaceae	Master	Prof. Dr. Saleh Hassan Elsharkawy Prof. Dr. Ashraf Taha Khalil (main supervisor) Dr. Mahmoud Fahmy Elsebai
11	Abdullah Mohammed Ali Mohammed Haikal	Investigation of Bioactive Compounds from Wild Plants Belonging to Family Lamiaceae .	Master	Prof. Dr. Ahmed Abu EL-Ghait Ahmed Gohar Prof. Dr. Madiha Amin Hassan Tawfek (main supervisor) Dr. Mona Farouk M. M. El- Neketi

## **Research plan for the department of pharmacognosy**

The exploitation of various natural resources (vegetable - animal - microbial and their products) to obtain natural products to use these products in the treatment of diseases that spread in the Egyptian environment by following scientific protocols.

### **1- Natural Products Chemistry Research**

- Antioxidants
- Hepatic cirrhosis inhibitors
- Antimicrobial and antiparasitic
- Anti-cancer agents
- Blood thinners to prevent blood clots
- Treatment of iron overload in hepatocytes
- Improving the performance of the gastrointestinal tract
- Anti-inflammatory
- Alzheimer's disease treatment/discovery of cholinesterase inhibitors
- Obesity treatment
- Microwaves are used to extract active substances from plants
- Natural synthesis of nanoparticles using medicinal extracts
- Drug Design of Bioactive Natural Products
- Extraction of natural products from marine

### **2- Biotechnology research:**

- Conducting biological experiments simultaneous with the chemical separation (Bio-guided fractionation) to ensure the effectiveness of the compounds previously identified.
- Preparation of derivatives from natural materials by chemical or biological transformations.
- Increasing the concentration of the active constituents in plants or natural sources using modern techniques (tissue culture and cloning)
- The use of natural compounds that improve the performance of disease-causing genes or reduce the harmful effect on genes
- Optimal exploitation of natural products as raw materials for the preparation of compounds or derivatives thereof of economic value
- The use of agricultural and medicinal plant waste to produce valuable compounds
- Chemical and biological studies of plant endophytes

## **Research Teams of the Pharmacognosy Department**

### **The research team for biological transformation and maximizing the utilization of natural waste**

- 1- Prof. Dr. Saleh Hassan Al-Sharqawi
- 2- Prof. Madiha Amin Hassan
- 3- Prof. Mona Gouda Zaghloul

### **The research team for plant tissue culture and genetic engineering**

- 1- Prof. Dr. Ahmed Aboul Gheit Gohar

### **The research team for extraction and isolation of bioactive natural products from endophytes**

- 1- Prof. Dr. Amal Abdel Hamid Galalah
- 2- Prof. Dr. Mahmoud Fahmy El Sebaei
- 3- Dr. Mona Farouk Metwally El-Neketi

### **The Research team for the cultivation and development of medicinal plants chemistry**

- 1- Prof. Dr. Shaker Mansour
- 2- Prof. Dr. Ashraf Taha Khalil
- 3- Dr. Zine El Abidine Metwally Naim
- 4- Dr. Qadriya Fawzy Muhammad

### **The research team for the economics of medicinal and aromatic plants**

- 1- Prof. Dr. Ahmed Fouad Halim
- 2- Prof. Dr. Mohamed Mahmoud Amer
- 3- Dr. Marwa Elsbaey Ali

### **The research team for narcotic substances**

- 1- Prof. Mohamed Farid Ibrahim Lahlob
- 2- Prof. Dr. Hassan Al-Radi Ali Saad
- 3- Dr. Amal Ahmed Hamdi Atwa Salam

### **The research team for Pharmaceutical drug design of natural compounds**

- 1- Prof. Dr. Ahmed Mohamed Zaghloul

### **Liver Research Team**

- 1- Prof. Dr. Farid Abdel Rahim Badria

### **The research team for the natural synthesis of nanoparticles using medicinal plant extracts**

- 1- Prof. Dr. Farid Abdel Rahim Badria

**The research team: Separation, characterization, and biological evaluation of substances that have an effect on the secretion of cellular chemical carriers (cytokines) from plants**

- 1- Prof. Dr. Farid Abdel Rahim Badria
- 2- Prof. Mohamed Hossam El Din Zaghloul Abdel Hafez - Professor of Clinical Pathology - Faculty of Medicine - Mansoura University

**The research team for extraction of natural products from marine**

- 1- Prof. Dr. Mohamed Farid Ibrahim Mohamed Lahlob
- 2- Prof. Ashraf Taha Khalil
- 3- Prof. Dr. Tarek Ahmed Abdel Aziz Mohamed - Department of Invertebrates - National Institute of Marine and Fisheries Sciences - Hurghada - Red Sea

**Fields of research and study**

**1- Chemical studies of medicinal plants**

In these studies, the active substances are separated and identified from some plants with medicinal uses and plants that are mentioned in folk medicine

**2- Botanical studies**

In these studies, the morphological and anatomical characteristics of medicinal plants are determined so that researchers can identify plants in their various forms

**3- Biological studies**

In these studies, a comprehensive biological screening of the effectiveness is carried out, whether for whole or fractionating plant extracts or for separated substances in their pure form, which contributes to the discovery of some biological activities and new drugs, such as:-

- a. Anti-cancer drugs
- b. Anti-parasites and anti-microbial
- c. Antioxidants
- d. Anti-inflammatories
- e. Anti-diabetes
- f. Diseases of the digestive system such as antacids, stomach ulcers, cirrhosis of the liver, and its various pathological conditions
- g. Urinary system disinfectants and solvent for urinary calculi



### 1- The department's research projects for the year 2020/2021

1	nothing
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### 2- Patents for the year 2020/2021

1	nothing
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### 3- The published books for the year 2020/2021

NO.	Authors	The title of the book
1	nothing	

### Department seminars and conferences during the period from 2019-2020

#### 1- Annual Scientific Conference For the department 2019/2020

The conference was scheduled to be held in the second week of April 2020 under the title:

#### **Virus is a hazard**

But it has been postponed due to the coronavirus pandemic

## Supervision on theses

- Theses in the department that have not yet been discussed

N	Researcher's name	Thesis title	Enrollment date	Registration Date	Supervisors	Degree and specialization
1	Noran Hussein Rafat Abdel Fattah	Phytochemical and biological study of <i>Lactuca serriola</i> L.		19/9/2017	Dr. Ahmed Fouad Ahmed Halim	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences  Pharmacognosy
					Dr. Hassan-Elrady Ali Saad (Principal Supervisor)	
					Dr. / Fatima Mohammed AbdulRahman AbdulBar	
2	Gehad Abdul Wahab Ibrahim Ali	Phytochemical and biological study of leaves of <i>Helichrysum bracteatum</i> (Everlasting flower)		7/11/2019	Dr. Mohammed Farid Ibrahim Mohammed Lahlob	Faculty of Pharmacy/Pharmacognosy/ PhD in Pharmaceutical Sciences  Pharmacognosy
					Dr. / Amal Ahmed Hamdi Atwa Sallam	
					Dr. Walaa Mohammed Safwat Saadeddine	

3	Iman Ezz Abdel Moneim Abu Al Aish	Phytochemical and biological study of aerial parts Marrubium alysson L F:Lamiaceae		26/6/2020	Dr. Elsayed Shaker Mansour (Principal Supervisor)	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences Pharmacognosy
					Dr. Mohammed Farid Ibrahim Mohammed Lahlob	
					Dr. Amal Fathi Suliman Ahmed Shehata	
4	Nada Abd El , Ghani Hanafi Al Mutwali	Production of chemicals and pharmaceuticals from date palm tree wastes		16/2/2020	Dr. Saleh Hassan Al-Sharqawi (Principal Supervisor)	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences Pharmacognosy
					Dr. Elsayed Mahdi Marwan Mohammed	
					Dr. Mona Farouk Metawali Mohammed Al-Naqiti	
5	Mahmoud Suleiman Mohamed Mustafa	Phytobiological study of Saussurea Costus roots		4/5/2020	Dr. / Mona Gouda Mohammed Zaghloul (Principal Supervisor)	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences Pharmacognosy
					Dr. Weaam Nabil Elsayed Ibrahim	
					Dr. Walaa Mohammed Safwat Saadeddine	
6	Radwa Abd El , Rahim Mustafa Mohammad Ali	Chemical and biological study of Cassia fistula		18/5/2020	Dr. Ashraf Taha Mohammed Khalil (Principal Supervisor)	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences Pharmacognosy
					Dr. Zien El Abdeen Metwally Mustafa Naeem	
					Dr. Weaam Nabil Elsayed Ibrahim	
7	Manar Monir Yusry Mohammed Hassan Askar	Phytochemical study of Syzigium cumini (Eugenia jambolana) belonging to family Myrtaceae		29/4/2020	Dr. Qadriyah Fawzi Mohammed Ahmed Ibrahim	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences Pharmacognosy
					Dr. / Mona Gouda Mohammed Zaghloul (Principal Supervisor)	
					Dr. / Marwa Elsbaey Ali	
8		Bioactive compounds from some agro-wastes		5/5/2020	Dr. Mohammed Mahmoud Abdel Fattah Amer	Faculty of Pharmacy/Pharmacognosy/

	Mai Magid Ahmed Kamel Dhaif				Dr. / Amal Abd El-Hamid Galala	Master of Pharmaceutical Sciences  Pharmacognosy
					Dr. Sarah Ahmed Abdullah Abu Zaid	
9	Alaa Abd El- Muti Al-Bahi Mohammed Salem	Production of valuable compounds from wastes of Washingtonia filifera (Arecaceae) growing in Egypt		24/1/2021	Dr. Saleh Hassan Al-Sharqawi (Principal Supervisor)  Dr. Elsayed Mahdi Marwan Mohammed  Dr. Amira Shawky Ahmed Mera	Faculty of Pharmacy/Pharmacognosy/ Master of Pharmaceutical Sciences  Pharmacognosy

### Theses that have not yet been discussed (from outside the department)

M	Researcher's name	Title of Al-Rasala	Enrollment date	Registration date	Supervisors	Degree and specialization
1	Darren Ibrahim Shalabi Mohammed Suleiman	Phytochemical and biological investigation of adhatoda vasica nees	15/1/2013	26/11/2014	Dr. Ahmed Abul Gheit Gohar (Principal Supervisor)  A.D. / Sahar Rifaat Gadara  Dr. Fatima Mohammed AbdulRahman AbdulBar	Faculty of Pharmacy/Pharmacognosy/Master of Pharmaceutical Sciences Pharmacognosy
2	Mai Salah Mahmoud Hindawi	Chemical and Biological study of Cuscuta campstris Yunck.		12/7/2016	Dr. Mohammed Farid Ibrahim Mohammed Lahlob  Dr. Mohammed Mahmoud Abdel Fattah Amer (Principal)  Dr. Zien El Abdeen Metwally Mustafa Naeem	Faculty of Pharmacy/Pharmacognosy/Master of Pharmaceutical Sciences Pharmacognosy
3	Ghada Mahmoud Mohamed El, Sayed Abdul Wahab	Biologically active compounds of the genus Paralymanalia and Vallozia Nagra		3/4/2016	Dr. Mohammed Farid Ibrahim Mohammed Lahlob  Dr. Ashraf Taha Khalil (Principal Supervisor)	Faculty of Pharmacy/Pharmacognosy/Master of

					Dr. Tarek Ahmed Abdulaziz Mohammed	Pharmaceutical Sciences Pharmacognosy
4	Sara Ibrahim Adel Mohammed Ahmed Abu Al- Majd	A study on Venedium fasteosum		2/3/2017	Dr. Mohammed Mahmoud Abdul Fattah Amer	
					Dr. Ahmed Mohamed Zaghloul (Principal Supervisor)	Faculty of Pharmacy/Pharmacogno sy/Master of Pharmaceutical Sciences Pharmacognosy
					Dr. Amal Ahmed Hamdi Atwa Sallam	
5	Sarah Munir Hamed Ahmed Fouda	Chemical and biological study of some plants belonging to the Milky Family (Euforbiasi)		15/8/2017	Dr. Elsayed Shaker Mansour (Principal Supervisor)	Faculty of Pharmacy/Pharmacogno sy/Master of Pharmaceutical Sciences Pharmacognosy
					Dr. / Mona Gouda Mohammed Zaghloul	
					Dr. / Amani Mukhtar Marzouk	
6	Ghada Mahmoud Ahmed Abbas	A study on Cynara scolymus as a potential source for bioactive compounds		19/9/2017	Dr. Mohammed Farid Ibrahim Mohammed Lahlob	Faculty of Pharmacy/Pharmacogno sy/PhD Pharmaceutical Sciences Pharmacognosy
					Dr. Ahmed Abul Gheit Ahmed Gohar (Principal Supervisor)	
					Dr. / Fatima Mohammed Abdul Rahman Abdul Bar	
					Dr. Amal Ahmed Hamdi Atwa Sallam	
7	Khalid Ahmed Ali Ali Sayed	Investigation of bioactive compounds from plants belonging to family oleaceae		21/8/2019	Dr. Mohammed Farid Ibrahim Mohammed Lahlob (Principal Supervisor)	Faculty of Pharmacy/Pharmacogno sy/PhD Pharmaceutical Sciences Pharmacognosy
					Dr. Mona Farouk Metwally Al- Naqiti	
					Dr. Ahmed Al-Saeed Badir Ali Al- Barmawi	
8	Ahmed Mohamed Hassan Al , Shorbagi	Phytochemical, histochemical and biological investigation of Felicia abyssinica		4/9/2019	Dr. Farid Abdul Rahim Badria (Principal Supervisor)	Faculty of Pharmacy/Pharmacog nosy/Master of Pharmaceutical Sciences Pharmacognosy
					Dr. / Amal Ahmed Hamdi Atwa Sallam	
					Dr. Marwa Abdul Aziz Ali Fayed	
9					Dr. Farid Abdul Rahim Badria (Principal Supervisor)	Faculty of Pharmacy/Pharmacog

	Reem Ali Ali Hassan Al , Gamal	Redesigning the Chemical and Biological Properties of Some Selected Natural Products		25/12/201 9	Dr. / Amal Abd El-Hamid Galala Dr. Amal Fathi Suleiman Ahmed Shehata	nosy/Master of Pharmaceutical Sciences Pharmacognosy
10	Sara Mustafa Hassan Darwish	Biologically oriented study of the touch			Dr. Ahmed Mohamed Zaghoul (Principal Supervisor) Dr. Nadia Al-Bailey Youssef Hashish	Faculty of Pharmacy/Pharmacog nosy/Master of Pharmaceutical Sciences Pharmacognosy

## **Achievements of Pharmacognosy Department 2019/2020**

- 1- Continue to update the vision and thesis of the Pharmacognosy Department during the department's board discussions.**
- 2- Work to update the Pharmacognosy department manual.**
- 3- Update the annual report of the Department of Pharmacognosy for the academic year 2020/2021.**
- 4- Complete the department's quality files.**
- 5- Participation of the Pharmacognosy Department at the 7th Scientific Conference of students of the Faculty of Pharmacy through the supervision on the students and participation in the Judgement comity.**
- 6- Activate the question bank in subjects that did not do the previous year.**
- 7- Awarded 6 internal and external master's degrees for the academic year 2019/2020.**
- 8- Awarded 4 internal and external PhD degrees for the academic year 2019/2020.**
- 9- Publishing 65 international papers in international journals with high impact factors.**

- 10- The presence of active research groups in the department.
- 11- Update the possibilities of the medicinal plant farm under the supervision of the Pharmacognosy Department.
- 12- More than 96% of the department members have Google Scholar.

## **Proposed plan to develop the department in 2019/2020**

### **First: Developing the educational process**

- 1- Make educational videos in the department's labs and publish them on the Pharmacognosy web page.
- 2- Increased attention to student activities in order to increase the student's association with the subjects of the department and not to rely on external courses.
- 3- Take action to develop the department's student labs and add data show in the labs.
- 4- Respond to constructive criticism extracted from questionnaires in relation to the quality of the educational process.
- 5- Make a mechanism to follow up on students who are in distress in the department's subjects.

### **Second: Scientific research**

- 1- Attention to applied research aimed at solving the chronic problems facing society such as diseases (cancer - liver - Corona virus ).
- 2- Increasing partnership with international research laboratories in countries such as Japan - America- Canada to raise the level of scientific research for faculty members and their associates in the department, which shows its impact on international research published in 2019/2020.
- 3- Participation with other scientific departments in joint research while showing its impact on the quality of fruitful scientific cooperation at the college.

4- Development of the biological laboratory in order to ensure the quality of the results of scientific research.

5- Develop a plan to contract with organic solvent companies to provide important solvents for scientific research.

### Googel Scholar

<u>Amira Shawky</u> <u>Mera</u>	<a href="https://www.scopus.com/authid/detail.uri?authorId=55771188500">https://www.scopus.com/authid/detail.uri?authorId=55771188500</a>
<u>Sarah Ahmed Abu</u> <u>Zaid</u>	<a href="https://www.scopus.com/authid/detail.uri?authorId=57197806577">https://www.scopus.com/authid/detail.uri?authorId=57197806577</a>
<u>Iman Ezzat Abdel</u> <u>Hamed Helal</u>	<a href="https://www.scopus.com/authid/detail.uri?authorId=57211679646">https://www.scopus.com/authid/detail.uri?authorId=57211679646</a>

### Research published in local and international conferences and magazines for 2019/2020

Year	Name of authors	Title of Publication	Journal Name	Volume (issue), pages
2019	Ahmed M. Elissawy, Sherif S. Ebada, Mohamed L. Ashour, Mona El-Neketi, Weaam Ebrahim, AbdelNasser B. Singab	New Secondary Metabolites from the Mangrove-Derived Fungus <i>Aspergillus</i> sp. AV-2	<a href="#">Phytochemistry Letters</a>	29, 1-5
2019	Julia Werner, Weaam Ebrahim, Ferhat Can Özkaya, Attila Mándi, Tibor Kurtán, Mona El-Neketi, Zhen Liu, Peter Proksch	Pyrone derivatives from <i>Helichrysum italicum</i>	Fitoterapia	133, 80–84
2019	Riham Salah El Dine, Hossam M. Abdallah, Zeinab A. Kandil, Ahmed A. Zaki, Shabana I. Khan, Ikhlas A. Khan	PPAR $\alpha$ and $\gamma$ Activation Effects of New Nor-triterpenoidal Saponins from the Aerial Parts of <i>Anabasis articulata</i>	Planta Medica	85(4):274-281
2019	Ji-Yeong Bae, Zulfiqar Ali, Yan-Hong Wang, Amar G. Chittiboyina, Ahmed A. Zaki, Alvaro M. Viljoen, and Ikhlas A. Khan	Anthraquinone-Based Specialized Metabolites from Rhizomes of <i>Bulbine natalensis</i>	Journal of Natural Products	82(7):1893-1901

2019	FM Abdel Bar, DM Elimam, AS Mira, FF El-Senduny, FA Badria	Derivatization, molecular docking and in vitro acetylcholinesterase inhibitory activity of glycyrrhizin as a selective anti-Alzheimer agent	Natural product research	33 (18), 2591-2599
2019	Dina M Omran, Mariam A Ghaly, Shahenda M El-Messery, Farid A Badria, Ehab Abdel-Latif, Ihsan A Shehata	Targeting hepatocellular carcinoma: Synthesis of new pyrazole-based derivatives, biological evaluation, DNA binding, and molecular modeling studies	Bioorganic chemistry	88, 102917
2019	Hebat-Allah M Goma'a, Mariam A Ghaly, Laila A Abou-zeid, Farid A Badria, Ihsan A Shehata, Mohamed M El-Kerdawy	Synthesis, Biological Evaluation and In Silico Studies of 1, 2, 4-Triazole and 1, 3, 4-Thiadiazole Derivatives as Antiherpetic Agents	ChemistrySelect	4 (21), 6421-6428
2019	MH El-Naggar, A Elgaml, FM Abdel Bar, FA Badria	Antimicrobial and antiquorum-sensing activity of Ricinus communis extracts and ricinine derivatives	Natural product research	33 (11), 1556-1562
2019	AS Ibrahim, S El-Tanani, H Saleh, I Eldeeb, F Badria, M Al-Shabrawey	The Promise of a Small Molecule Derivative of Fluoro-catechol Ester of 3-Hydroxy-benzoic Acid in Preventing Diabetes Induced Microvasculopathy	Arteriosclerosis, Thrombosis, and Vascular Biology	39 (Suppl_1), A293-A293
2019	Assem Barakat, Mohammad Shahidul Islam, Hussien Mansur Ghawas, Abdullah Mohammed Al-Majid, Fardous F El-Senduny, Farid A Badria, Yaseen AMM Elshaier, Hazem A Ghabbour	Design and synthesis of new substituted spirooxindoles as potential inhibitors of the MDM2-p53 interaction	Bioorganic chemistry	86, 598-608
2019	F Badria, MM Hassan, MM Abd-Al Moneim	Trigonelline: a new natural hepatoselective fibrosuppressive agent	Polymorphism	2, 51-65
2019	FF El-Senduny, MM Zidane, MM Youssef, FA Badria	Approach For Treatment of Liver Cancer By Novel Glycyrrhizin Derivative.	Anti-cancer agents in medicinal chemistry	
2019	S Sweidan, S El-Sappagh, H El-Bakry, S Sabbeh, FA Badria, KS Kwak	A Fibrosis Diagnosis Clinical Decision Support System Using Fuzzy Knowledge	Arabian Journal for Science and Engineering	44 (4), 3781-3800
2019	Hesham El-Askary, Heba Handoussa, Farid Badria, Ahmed H El-Khatib, Abdulrhman Alsayari, Michael W Linscheid, Amira Abdel Motaal	Characterization of hepatoprotective metabolites from Artemisia annua and Cleome droserifolia using HPLC/PDA/ESI/MS-MS	Revista Brasileira de Farmacognosia	29 (2), 213-220
2019	FA Badria	Resveratrol-Adding Life to Years, Not Adding Years to Life		
2019	Mohammad Shahidul Islam, Hussien Mansur Ghawas,	Synthesis of new thiazolo-pyrrolidine-(spirooxindole)	Bioorganic chemistry	82, 423-430



	Fardous F El-Senduny, Abdullah Mohammed Al-Majid, Yaseen AMM Elshaier, Farid A Badria, Assem Barakat	tethered to 3-acylindole as anticancer agents		
2019	Assem Barakat, Fardous F El-Senduny, Zainab Almarhoon, Hessa H Al-Rasheed, Farid A Badria, Abdullah Mohammed Al-Majid, Hazem A Ghabbour, Ayman El-Faham	Synthesis, X-Ray Crystal Structures, and Preliminary Antiproliferative Activities of New s-Triazine-hydroxybenzylidene Hydrazone Derivatives	Journal of Chemistry	2019
2019	Abdullah Mohammed Al-Majid, Mohammad Shahidul Islam, Saleh Atef, Fardous F El-Senduny, Farid A Badria, Yaseen AMM Elshaier, M Ali, Assem Barakat, AFM Motiur Rahman	Synthesis of Pyridine-Dicarboxamide-Cyclohexanone Derivatives: Anticancer and $\alpha$ -Glucosidase Inhibitory Activities and In Silico Study	Molecules	24 (7), 1332
2019	F Azam, SU Rehman, TU Rahman, A Mehmood, A Gohar, A Samad	A review on botanical, phytochemical and pharmacological reports of <i>conocarpus erectus</i>	Pakistan Journal of Agricultural Research	32 (1), 212
2019	FM Abdel Bar, GM Abbas, AA Gohar, MFI Lahloub	Antiproliferative activity of stilbene derivatives and other constituents from the stem bark of <i>Morus nigra</i> L	Natural product research	1-8
2019	Nakagawa T., Ashour A., Amen Y., Koba Y., Ohnuki K., Shimizu K.	$\alpha$ -Glucosidase inhibitory activity of resin from Sakhalin fir tree ( <i>Abies sachalinensis</i> ) and its bioactive compounds	Natural Product Communications	14 (6), 1-4
2019	Mwakalukwa R., Ashour A., Amen Y., Niwa Y., Tamraker S., Nagata M., Miyamoto T., Shimizu K.	Anti-allergic activity of polyphenolic compounds isolated from Olive Mill Wastes	Journal of Functional Foods	58, 207-217
2019	Ashour A., Amen Y., Allam A., Kudo T., Nagata M., Ohnuki K., Shimizu K.	New isoindolinones from the fruiting bodies of the fungus <i>Herichium erinaceus</i>	Phytochemistry Letters	32, 10-14
2019	Werner, J., Ebrahim, W., Özkaya, F.C., Mándi, A., Kurtán, T., El-Neketi, M., Liu, Z., Proksch, P.	Pyrone derivatives from <i>Helichrysum italicum</i>	Fitoterapia	133, pp. 80-84.
2019	Elissawy, A.M., Ebada, S.S., Ashour, M.L., El-Neketi, M., Ebrahim, W., Singab, A.B.	New secondary metabolites from the mangrove-derived fungus <i>Aspergillus</i> sp. AV-2	Phytochemistry Letters	29, pp. 1-5.
2019	Abdel-Wahab, N.M., Harwoko, H., Müller, W.E.G., Hamacher, A., Kassack, M.U., Fouad, M.A., Kamel, M.S., Lin, W., Ebrahim, W., Liu, Z., Proksch, P.	Cyclic heptapeptides from the soil-derived fungus <i>Clonostachys rosea</i>	Bioorganic and Medicinal Chemistry,	

2019	Abdel-Wahab, N.M., Scharf, S., Özkaya, F.C., Kurtán, T., Mándi, A., Fouad, M.A., Kamel, M.S., Müller, W.E.G., Kalscheuer, R., Lin, W., Daletos, G., Ebrahim, W., Liu, Z., Proksch, P.	Induction of secondary metabolites from the marine-derived fungus <i>Aspergillus versicolor</i> through co-cultivation with <i>Bacillus subtilis</i>	Planta Medica	85 (6), pp. 503-512.
2019	Moussa, M., Ebrahim, W., Bonus, M., Gohlke, H., Mándi, A., Kurtán, T., Hartmann, R., Kalscheuer, R., Lin, W., Liu, Z., Proksch, P.	Co-culture of the fungus <i>Fusarium tricinctum</i> with <i>Streptomyces lividans</i> induces production of cryptic naphthoquinone dimers	RSC Advances	9 (3), pp. 1491-1500.
2019	Hassan Mohamed, Weaam Ebrahim, A M Peterson, Ferhat Can Özkaya, P Proksch	Tensidols A and B from <i>Aspergillus tubingensis</i> strain and their biological activity	Mikologiya I Fitopatologiya	53(4); 223-228
2019	Abdelkarem, F., Desoky, E., Nafady, A., Allam, A., Mahdy, A., Ashour, A., Mohamed, G., Miyamoto, T., Shimizu, K.	Two new polyhydroxylated steroids from Egyptian soft coral <i>Heteroxenia fuscescens</i>	Natural product research	doi: 10.1080/14786419.2019.1624958
2019	Elbermawi, A., Halim, A., Mansour, E., Ahmad, K., Ashour, A., Amen, Y., Shimizu, K.	A new glucoside with a potent $\alpha$ -glucosidase inhibitory activity from <i>Lycium schweinfurthii</i>	Natural Product Research	doi: 10.1080/14786419.2019.1616730
2019	Nakagawa, T., Ashour, A., Amen, Y., Ohnuki, K., Fujimoto, N., Shimizu, K.	Antioxidant and anti-lipase compounds isolated from heartwood of Yakushima native cedar ( <i>Cryptomeria japonica</i> )	Journal of Wood Chemistry and Technology	doi: 10.1080/02773813.2019.1578806
2019	Marwa Elsbaey, Amal Sallam, Mohamed El-Metwally, Maki Nagata, Chiaki Tanaka, Kuniyoshi Shimizu, and Tomofumi Miyamoto	Melanogenesis Inhibitors from the Endophytic Fungus <i>Aspergillus amstelodami</i>	Chem. Biodiversity	16, e1900237
2019	Brahmi Fatiha*, Amri Siham, Bentaleb Sonia, Elsebai M. Fahmi, Yalaoui-Guellal Drifa, Madani Khodir.	Comparison of Phenolic Contents and Biological Potential of Different Polar Extracts of <i>Micromeria graeca</i> , from Algeria	Current Nutrition & Food Science	<b>15 (2), 148-155</b>
2019	Wael M. Abdel-Mageed, Lamyia H. Al-Wahaibic, Yaser G. Goudab, Muneera S.M. Al-Saleem,	Contortisiliosides H–M: Triterpenoid saponins from <i>Enterolobium</i>	Industrial Crops and Products	139 (2019) 111528
2019	Ali A. El-Gamal, Omer A. Basudana, Mansour S. Alsaïda, Shaza M. Al-Massarani	contortisiliquum and their biological activity		
	Maged S. Abdel-Kader			

2019	ShazaAl-Massarani,, AminaEl-Shaibany, NurhayatTabanca, AbbasAli,	Assessment of selected Saudi and Yemeni plants for mosquitocidal activities against the yellow fever mosquito Aedes aegypti	Saudi Pharmaceutical Journal	10.1016/j.jsps. 2019.07.001
	Alden S.Estep, James J.Becnel, FatihGoger,, BetulDemirci, Ali El-Gamal, K. Husnu CanBaser			
2019	Ali A Alzabib , Yasser Abobakr, Ali S Al-Sarar, Hamdy I Hussein, Omer A Basudan, Ali A El-Gamal, Maged S Abdel-Kader, Mahmoud H El_Komy	Molluscicidal activity of cardiac glycosides isolated from Adenium obesum	Pest Manag Sci(2019)	10.1002/ps.53 88
2019	Hanan Aati, Ali El-Gamal, Hamdy Shaheen and Oliver Kayser	Traditional use of ethnomedicinal native plants in the Kingdom of Saudi Arabia	Journal of Ethnobiology and Ethnomedicine	/10.1186/s130 02-018-0263- 2
2019	Aslam Khan, Najeeb-ur- Rehman , Anwarul-Hassan Gilani , Zunirah Ahmed, Shaza Al-Massarani, Ali. El- Gamal and Mohamed Farag	Possible Mechanism(s) Underlying the Antidiarrheal, Antispasmodic and Bronchodilatory Activities of the Pericarp of Albizia lebbeck	International Journal of Pharmacology	15 (1), 56-65 2019
2019	Ramzi A.Mothana, ,Jamal M.Khaled, Ali A.El-Gamal Omar M.Nomana AshokKumarc Mohamed F.Alajmi Adnan J.Al- Rehaily Mansour S.Al-Said	Comparative evaluation of cytotoxic, antimicrobial and antioxidant activities of the crude extracts of three Plectranthus species grown in Saudi Arabia	Saudi Pharmaceutical Journal	27 (2), 162, 2019
2019	Fatma M. Abdel Bar, Ghada M. Abbas, Ahmed A. Gohar & Mohamed-Farid I. Lahloub	Antiproliferative activity of stilbene derivatives and other constituents from the stem bark of Morus nigra L	Natural Product Research	DOI: 10.1080/1478 6419.2019.15 73236
2019	Amira Elkattan, Ahmed Gohar, Mohamed Amer, Zain M. Naeem, Ahmed Ashour, and Kuniyoshi Shimizu	Melanin Synthesis Inhibitors from Olea europeae	Records of Natural products	DOI: <a href="http://doi.org/10.25135/rnp.142.19.04.1264">http://doi.org/ 10.25135/rnp. 142.19.04.126 4</a>
2019	Lei Wang, Guan Jin, Li Tian, Weaam Ebrahim, Simon- Patrick Höfert, Christoph Janiak, Jian-Feng Chen, Zhi- Yong Guo, Till F. Schäberle, Zhen Liu, Fan Cheng, Peter Proksch, Kun Zou	New eremophilane-type sesquiterpenes and maleimide- bearing compounds from Carpesium abrotanoides L.	Fitoterapia	<a href="https://doi.org/10.1016/j.fitote.2019.104294">https://doi.org/ 10.1016/j.fitot e.2019.104294</a>
2019	Reda Abdelhameed, Sameh Elhady, Ahmad Noor, Diena Almasri, Alaa Bagalagel, Galal Maatooq, Amgad Khedr, Koji Yamada	Production of a New Cyclic Depsipeptide by the Culture Broth of Staphylococcus sp. Isolated from Corallina officinalis L	Metabolites	11;9(11):273.
2019	Farid A. Badria and Walaa S. Aboelmaaty	TELOMERASE AND NATURAL PRODUCTS:	International Journal of Research in	8(1), 27-47

		CURRENT STATUS AND NEW THERAPEUTIC APPLICATIONS	Pharmaceutical and Nano Sciences	
2019	Farid A. Badria and Walaa S. Aboelmaaty	Plant Histochemistry: A Versatile and Indispensable Tool in Localization of Gene Expression, Enzymes, Cytokines, Secondary Metabolites and Detection of Plants Infection and Pollution	Acta Scientific Pharmaceutical Sciences	3 (7), 88-100
2019	Eman Elattar, Farid Badria, Amal Galala, Hassan-Elrady Saad	Alpha-Amylase Inhibitory Effect and Docking Studies of Some New Curcumin-Triazole Derivatives	Acta Scientific Nutritional Health	3 (11): 124-129.
2019	Iman E. Helal, Marwa Elsbaey, Ahmed M. Zaghloul & El-Sayed S. Mansour	A unique C-linked chalcone-dihydrochalcone dimer from <i>Dracaena cinnabari</i> resin	Natural Product Research	<a href="https://doi.org/10.1080/14786419.2019.1687471">https://doi.org/10.1080/14786419.2019.1687471</a>
2019	Blessing O. Umeokoli, Weaam Ebrahim, Mona El-Neketi, Werner E. G. Müller, Rainer Kalscheuer, Wenhan Lin, Zhen Liu & Peter Proksch	A new depsidone derivative from mangrove sediment derived fungus <i>Lasiodiplodia theobromae</i>	Natural Product Research	33 (15), 2215-2222
2020	Amira Mira, Mohamed A. Sabry, Kuniyoshi Shimizu, Fatma M. Abdel Bar	A new pimarane-type diterpene obtained by biotransformation inhibits human HCT-116 colorectal carcinoma through inhibition of LTA4H activity	Medicinal Chemistry Research	29:759–766
2020	R Orfali, W Ebrahim, S Perveen, NM Majrashi, K Alluhayb, SS Ebada	Cytotoxic Secondary Metabolites from Mangrove-Rhizosphere-Associated Fungus <i>Emericella</i> sp. Strain SWR1718	Journal of King Saud University-Science	23(5) 2656-2661
2020	SS Ebada, W Ebrahim	A new antibacterial quinolone derivative from the endophytic fungus <i>Aspergillus versicolor</i> strain Eich. 5.2. 2	South African Journal of Botany	<a href="https://doi.org/10.1016/j.sajb.2019.12.004">https://doi.org/10.1016/j.sajb.2019.12.004</a>
2020	M Moussa, W Ebrahim, R Kalscheuer, Z Liu, P Proksch	Co-culture of the bacterium <i>Pseudomonas aeruginosa</i> with the fungus <i>Fusarium tricinctum</i> induces bacterial antifungal and quorum sensing signaling molecules	Phytochemistry Letters	36, 37-41
2020	SS Ebada, W Ebrahim	Quinoisobutyride A, an acyclic antibacterial tetrapeptide incorporating an unprecedented heterocyclic amino acid residue from the hypersaline lake-derived fungus <i>Penicillium</i> ...	Phytochemistry Letters	36, 95-98

2020	AM Al-Majid, HM Ghawas, MS Islam, SM Soliman, FF El-Senduny, FA Badria...	Synthesis of spiroindolone analogue via three components reaction of olefin with isatin and sarcosine: Anti-proliferative activity and computational studies	Journal of Molecular Structure	1204, 127500
2020	MS Islam, AM Al-Majid, FF El-Senduny, FA Badria, AFM Rahman	Synthesis, Anticancer Activity, and Molecular Modeling of New Halogenated Spiro [pyrrolidine-thiazolo-oxindoles] Derivatives	Applied Sciences	10 (6), 2170
2020	MH Ahmed, HM Aldesouki, FA Badria	Effect of phenolic compounds from the leaves of <i>Psidium guajava</i> on the Activity of three metabolism-related enzymes	Biotechnology and Applied Biochemistry	<a href="https://doi.org/10.1002/bab.1956">https://doi.org/10.1002/bab.1956</a>
2020	EM Mohamed, MH Hetta, ME Rateb, MA Selim, AM AboulMagd, FA Badria...	Bioassay-Guided Isolation, Metabolic Profiling, and Docking Studies of Hyaluronidase Inhibitors from <i>Ravenala madagascariensis</i>	Molecules	25 (7), 1714
2020	NM Kamel, FF Abdel-Motaal, SA El-Zayat	Endophytic fungi from the medicinal herb <i>Euphorbia geniculata</i> as a potential source for bioactive metabolites	Archives of Microbiology	202 (2), 247-255
2020	F Abdel-Motaal, N Kamel, S El-Zayat, M Abou-Ellail	First report of <i>Alternaria phragmospora</i> causing early blight disease of <i>Lycopersicon esculentum</i> in Egypt	Journal of Biological Studies	3 (1), 1-8
2020	MI Elshorbagy, M Elsbaey, HN Baraka, MF Lahloub	Chemo-typing of Three Egyptian Rosemary Oil for Their Chemical Composition and Anti-oxidant Activity	Journal of Pharmaceutical Research International	32(3), 9-14
2020	A Ashour, Y Amen, T Nakagawa, Y Niwa, A Mira, K Ohnuki, S Murakami, ...	New aliphatic ester of hydroxysalicylic acid from fermented <i>Carica papaya</i> L. preparation with a potential hair growth stimulating activity	Natural product research	34 (12), 1750-1755
2020	A Ashour, R Kondo, K Shimizu	Anti-proliferative Activity of Some Oleanolic Acid Derivatives with Potent Topoisomerase Inhibitory Activity on B16 Melanoma Cells	Wood Research Journal	9 (1), 26-28
2020	AA Zaki, AA Ashour, L Qiu	New sesquiterpene glycoside ester with antiprotozoal activity from the flowers of <i>Calendula officinalis</i> L	Natural Product Research	<a href="https://doi.org/10.1080/14786419.2020.1747457">https://doi.org/10.1080/14786419.2020.1747457</a>

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**Head of Department**

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