



حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م



Research Lab Sheet

Lab Name	Biochemistry Research Lab
Academic Year	2021 - 2022

Basic Information	
Department	Chemistry
Location	Building 2 - first floor
Head of the Lab	Prof. Dr. Nagwa Mohamed El-sawi

Lab Members					
No. of Staff	Prof.	Ass. Prof.	Lect.	Ass. Lect. & Demonstr.	Technicians
	1	-	-	3	-



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Staff members					
No.	Name	Scientific degree	E-mail	Specializations	Website
1	Nagwa Mohamed El-sawi	Prof.	elsawin@science.sohag.edu.eg elsawinagwa@yahoo.com	Biochemistry	https://staffsites.sohag-univ.edu.eg/uploads/157/1538143888%20-%20CV-nagwa%20new.elwasami
Ass. Lecturers & Demonstrators					
No.	Name	Scientific degree	E-mail	Specializations	Website
1	Asma Shaban Abbas	Ass. Lecturer	asmaa_shaaban@science.sohag.edu.eg	Biochemistry	
2	Amany Mohamed Hamed	Ass. Lecturer	amanyomohamed@science.sohag.edu.eg amany.mohamed72@yahoo.com	Biochemistry	
3	Ahmed Gamal Khamis	Demonstrator	Ahmed.khamis@sci.sohag.edu.eg	Biochemistry	



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Theses produced by the Lab		
M. Sc Thesis		
No.	Title	Approval date
1	التحولات البيوكيميائية في كبد ذكور الفئران الناتجة عن التعرض للفريوكارين ز	1999
2	دراسات بيو كيميائية وهستولوجية علي تأثير السم الفطري باتيولين علي كلى ذكور الفئران البيضاء واستخدام المستخلص من التوت الصينى كعلاج	2016
3	دراسه على الانزيمات البكتيرية المحلله للسليولوز	2017
4	استخدام متراكب النحاس الاحادى مع حمض النيكوتينيك لتقليل التأثير السام المسبب بواسطه الاكريلاميد على كبد ذكور الفئران	2019
Ph.D. Thesis		
1	دراسات بيوكيميائية لبعض الدلالات المتعلقة بالسمنه وداء السكرى من النوع الثانى فى مرضى محافظه سوهاج	2016
2	دراسات فيتو كيميائية وبيوكيميائية لنبات ايبوميا اكواتيكا	2017



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Articles produced by the Lab

Year 2022

Thymoquinone Ameliorates Acrylamide induced Reproductive Toxicity in Wister Albino Female Rats: An Experimental Study, Nagwa M. El Sawi,¹ A. Mahmoud², Mariam Elkamidy², Etamad N². Department of Chemistry¹ Lab Biochemistry, Faculty of Science, Sohag University, International Journal of Reproductive Biomedicine Under Publication, 2022

Year 2019

Copper (I) Nicotinate complex Abrogates Acrylamide Induced Hepatotoxicity in Male Rats: Biochemical and Histological Studies -Nagwa M. El Sawi^{1*}, Wejdan, A. Aldajani², Mounir A. A. Mohamed¹, Ahmed. M. Ali³, Gamal .S.A⁴, Soad Shaker Ali⁵, Sabra A. Abd El Lah¹ -ISSN: 2377-0619- August.2019

Year 2017

- 1 Safaa Y. Qusti, Nagwa M. El Sawi, Reham S. Al Batati, Soad A. Shaker. A pioneer study on the anti-inflammatory activities of Copper (I)-Nicotinate Complex Against Alzheimer Disease. International Journal of Pharmaceutical Research & Allied Sciences, 2017, 6(3):56-70.
- 2 Evaluation of Antidiabetic Activity of Ipomoea Aquatica Fractions in Streptozotocin Induced Diabetic in Male Rat Model. Nagwa M. El-Sawi, Mahmoud Hefny Gad, Madeha Nooh Al-Seen, Sabry Younes, El-Mewafy El-Ghadban and Soad Shaker Ali, Sohag J. Sci.2, No. 1, 7-12 (2017) .
- 3 Identification of some Bioactive Metabolites in a Fractionated Methanol Extract from Ipomoea aquatica (Aerial Parts) through TLC, HPLC, UPLC-ESI-QTOF-MS and LC-SPE-NMR Fingerprints Analyses. Mahmoud Hefny Gad, Emmy Tuentner, Nagwa El-Sawi, Sabry Younes, El-Mewafy ElGhadban,^b Kristiaan Demeyer,^e Luc Pieters, Yvan Vander Heydena and Debby Mangelingsa,



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	Phytochem. Anal. 2017 (wileyonlinelibrary.com) DOI 10.1002/pca.2709
4	Madeha N.Al-Seen, Ahmed M.Ali, Nagwa M. Elsayi, Asma S.Abdo, Assessment of the Secondary Metabolite Patulin and Lycium Barbarum Fruit on INS-1 Rat Pancreatic B-Cells Agriculture and Food Sciences Research.Vol. 4, No. 1, 24-29, 2017.
Year 2016	
1	Relationship of C-Reactive Proteins with Oxidative Stress and Obesity in Type 2 Diabetic Subjects Nagwa M. El-Sawi , Hossam El-Din M. Omar, Ali Taha A. Hassan and Amira M. Ahmed1 , J. Pharm. Appl. Chem., 2, No. 3, 163-171 (2016)
2	Evaluation of serum cortisol, growth and thyroid hormones and its relation with lipolysis in nondiabetic obese and diabetic obese subjects attending Sohag Governorate, Egypt Ali Taha A. Hassan, Hossam El-Din M. Omar, Nagwa M. El-Sawi and Amira M. Ahmed , Global Advanced Research Journal of Medicine and Medical Sciences (ISSN: 2315-5159) Vol. 5(4) pp. 096-102, April, 2016
3	Nagwa M. El-Sawi , Asma S. Abdo, M.A.A. Mohamed, H. Salah, Madeha N. Al Seen, Mohamed T. El-Wassimy. Assessment of Lycium Barbarum for detoxification of Patulin toxin and their effects on rat serum globulin. Global Advanced Research Journal of Environmental Science and toxicology (ISSN: 2315-5140) Vol. 5(2) pp. March, 2016
4	Nagwa M. El-Sawi, Asma S. Abdo, M.A.A. Mohamed, H. Salah, Madeha N. Al Seen, Mohamed T. El-Wassimy. Assessment of Lycium Barbarum for detoxification of Patulin toxin and their effects on rat serum globulin. Global Advanced Research Journal of Environmental Science and toxicology (ISSN: 2315-5140) Vol. 5(2) pp. March, 2016.

Lab instruments						
No.	Device	Quantity	Quality			
			Good	Poor	Need maintenance	malfunction
1	PH Meter	1		√		
2	Homogenizer	1	√			
3	Water bath	1	√			
4	Oven	1	√			
5	Digital Spectrophotometer	1	√			
6	Digital balance	1		√		
7	Milk analyzers	1	√			

Instruments Description

Device name	Device image	Description / use
PH Meter		PH Meter is a device used: To measure the concentration of hydrogen ions
Homogenizer		To reduce particle size or force immiscible liquids to mix

Water bath		Water bath is a device used for making reactions under vapour of water condition.
Oven		Oven is a device used for: • Drying organic samples. • Drying all types of glass.

Digital Spectrophotometer



Spectrophotometry is a standard and inexpensive technique to measure light absorption or the amount of chemicals in a solution. It uses a light beam which passes through the sample, and each compound in the solution absorbs or transmits light over a certain wavelength.

Digital balance



A digital balance is used to weigh different chemical substances that used during different chemical reactions.

Milk analyzers



To make quick analyses of milk on fat (FAT), non-fat solids (SNF), proteins, lactose and water content percentages, temperature (oC), pH, freezing point, salts, conductivity as well as density of one and the same sample directly after milking, at collecting and during processing.

Evaluate the fulfillment of lab to appropriateness of areas, building installations, facilities and human resources standards

Areas of assessment		Indicators	Yes	Somewhat	No
Floor area and capacity	1	Adequacy of the total capacity of the lab for the number of researcher (12).			√
Windows and doors	2	Availability of windows for adequate ventilations.	√		
	3	Ease of use of windows.	√		
	4	There are two exits (doors) at least (2).			√
	5	There are signs to locate directions of emergency exits			√
Equipment	6	Appropriate temperature during the lectures.	√		
	7	Availability of good ventilation.	√		
	8	The existence of adequate lighting.	√		
	9	Lab is connected to the Internet	√		
	10	The existence of directions inside the Lab showing entrances and emergency exits.			√
Security and Safety	11	Existence of firefighting equipment near the hall.	√		
	12	Cleanliness of the room.	√		



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- 1- Minimum area.0.5m² for each person.
2. Door characteristics: Consists of one movable piece - opening to the outside.
3. The appropriate temperature is 18-25 °C in winter and 28°C in summer due to air-condition use.
4. Providing adequate lighting and good ventilation: windows area 10-15% of the floor area
5. Security and safety requirements: evacuation plan / evacuation responsible person/ fire distinguishers / bucket of sand / water source / good condition extinguish hoses / alarm system against fire).