



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



Research Lab Sheet

Lab Name	Heterocyclic compounds Chemistry Research Lab and their applications
Academic Year	2021 - 2022

Basic Information	
Department	Organic Chemistry
Location	Building 2 - first floor
Head of the Lab	Dr. Hanan Salah Abo-Zaid

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



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Staff members					
No.	Name	Scientific degree	E-mail	Specializations	Website
1	Hanan Salah Abo-Zaid	Ass. Professor	Hanansalah7396@gmail.com	Organic Chemistry	
Ass. Lecturers & Demonstrators					
No.	Name	Scientific degree	E-mail	Specializations	Website
1	Heba Adel Mohamed Mohamed	demonstrator	hebaadel2093@gmail.com hebaadel@science.sohag.edu.eg	Organic Chemistry -	



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Theses produced by the Lab		
M. Sc Thesis		
No.	Title	Approval date
1	Synthesis of some new heterocyclic compounds derived from 1,5- benzodiazepine derivatives	2001
2	Synthesis of Some New Surfactants and Study their Applications	2021
Ph.D. Thesis		
1	Synthesis of some new spiro and fused 1,5- benzodiazepines	2006



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Articles produced by the Lab

Year 2021

- | | |
|---|---|
| 1 | Synthesis, Characterization and Applications of novel Oligomeric Surfactants containing Heterocyclic Moiety. A. Khodairy, Amira E. El-Tabey, H. Salah and <u>H.Adel</u> , presented at 6 th Scientific Conference for Young Researchers, Sohag University, March, 2021 |
|---|---|

Year 2020

- | | |
|---|---|
| 1 | Eman A. Ahmed, Mamdouh F. A. Mohamed, Ahmed Omran & <u>Hanan Salah</u> (2020): Synthesis, EGFR-TK inhibition and anticancer activity of new quinoxaline derivatives, Synthetic Communications, Vol. 50(19): 2924-2940 DOI: 10.1080/00397911.2020.1787448 |
|---|---|

Year 2019

- | | |
|---|--|
| 1 | Mounir A. A. Mohamed, <u>H. Salah</u> and Ahmed Mohamed Mohamed El-Saghier 2019 . Synthesis, reactions and biological evaluation of some novel thienothiophene derivatives . European Journal of Chemistry 10 (3) 209-217. |
| 2 | Antar A. Abdelhamid, <u>Hanan A. Salah</u> and Adel. A. Marzouka 2019. Synthesis of Imidazole Derivatives; Ester and Hydrazide Compounds with Antioxidant Activity Using Ionic Liquid as an Efficient Catalyst J. Heterocycl. Chem., 54, 641-647. |
| 3 | Abdelhamid AA, <u>Salah HA</u>, Amany SE and Amer AA 2019. One-pot multicomponent synthesis of novel 2-imino-1,3-thiazolidin-4-one Novel Research in Sciences.2(3). NRS.000538.2019. DOI: |



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	10.31031/NRS.2019.2.000538
Year 2016	
1	Hanan Salah , Eman A. Ahmed , Mohamed M. Hassan 2016. Ring rearrangements and reactivity of 3-((4-oxo-4H-chromen-3-yl) methylene) -4-phenyl-1H-[1,5]benzodiazepin-2(3H)-one. toward some nucleophiles. Arabian Journal of Chemistry 10:548-555.
2	Mahmoud Abd El Aleem Ali Ali El-Remaly, O. M. El Hady, <u>H. Salah Abo Zaid</u>, and E. M. M. Abd El-Raheem 2016. Synthesis and in vitro Antibacterial Activity of Some Novel Fused Pyridopyrimidine Derivatives. J. Heterocyclic Chem., 53(4):1304-1309
3	Nagwa M. El-Sawi, Asma S. Abdo, M.A.A. Mohamed1, <u>H. Salah</u>, Madeha N. Al Seeni, Mohamed T. El-Wassimy 2016. Assessment of <i>Lycium Barbarum</i> for detoxification of Patulin toxin and their effects on rat serum globulin. Global Advanced Research Journal of Environmental Science and toxicology.5(2) 009-015.

Lab instruments						
No.	Device	quantity	Quality			
			Good	Poor	Need maintenance	malfunction
1	Hot Plate	1	√			
2	Hot Plate with stirrer	2	√			

Instruments Description

Device name	Device image	Description / use
Hot Plate		Hot plate is a device used: • For heating samples in glass beakers, flasks, vials, bottles and other vessels. • For refluxing the organic reactions. • To heat samples before chemical analysis.

Hot Plate with stirrer



Hot plate with stirrer is a device used:

- For heating samples in glass beakers, flasks, vials, bottles and other vessels.
- For refluxing with stirring the organic reactions.
- To heat samples before chemical analysis.

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 (1).	√		
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 (3).	√		
	7	Availability of good ventilation (4).	√		
	8	The existence of adequate lighting (4).	√		
	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 (5).	√		
	12	Cleanliness of the room.	√		



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- 1- Minimum area: 1m² for each person.
2. Doors characteristics: Consists of one movable piece - opening to the inside.
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).