

Research Lab Sheet

Lab Name	Synthetic Organic Chemistry Research Laboratory
Academic Year	2021-2022

Basic Information	
Department	Department of Chemistry
Location	Building 2 - First floor
Head of the Lab	<i>Prof. Dr. Omyma Abd Elaziz Abd El-latif Abd Allah</i>

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

Staff members

#	Name	Scientific degree	e-mail	Specializations	C.V
1	Prof. Dr. Omyma Abd Elaziz Abd El-latif Abd Allah	Professor	omymatif66@yahoo.com, omaima.abdelatef@science.sohag.edu.eg	Organic Chemistry	https://staffsites.sohaguniv.edu.eg/omaima.abdelatef

Ass. Lecturers & Demonstrators

#	Name	Scientific degree	e-mail	Specializations	Website
1	Alaa Adel Fahmy	Demonstrator	alaa.adel9493@gmail.com	Organic Chemistry	

Theses produced by the Lab		
M Sc Thesis		
No	Title	Approval date
1	Synthesis and Reactions of s-Triazole-Fused Heterocycles	1999
2	Synthesis and Reactions of Some 1,8-Naphthyridines	2006
3	Synthesis and Biological Evaluation of Some New Heterocyclic Compounds Derived From Chalcone and Curcumin Derivatives	2014
4	Multicomponent Synthesis and Biological Evaluation of Some New Hexahydroquinoline Derivatives	2015
Ph.D. Thesis		
1	Multicomponent Reactions: an Efficient Green Synthesis of Some Novel Amino Acid Coupled Triazole Derivatives	2019

Articles produced by the Lab

#	Year 2021
1	Crystal structures of 1-(4-chlorophenyl)-4-(4-methylphenyl)-2,5-dioxo-1,2,5,6,7,8-hexahydroquinoline-3-carboxylic acid and 4-(4-methoxy phenyl)-1-(4-methylphenyl)-2,5-dioxo-1,2,5,6,7,8-hexahydroquinoline-3-carbonitrile; <u>Abd Allah O. A.</u> , Kaur M., Akkurt M., Mohamed S. K., Tamam A. H. A., Elgarhy S. M. I. and Jasim J. P.; <i>Acta Cryst.</i> (2021), <i>E77</i> , 351–355
2	Crystal structure and Hirschfield surface analysis of ethyl 2-[9-(2-hydroxyphenyl)-3,3,6,6-tetramethyl-1,8-dioxo-2,3,4, 4a,5,6, 7,8a, 9, 9a, 10,10a-dodecahydroacridin-10-yl]acetate; <u>Abd Allah O. A.</u> , Kaur M., Akkurt M., Mohamed S. K., Jasinski J. P. and Elgarhy S. M. I.; <i>Acta Cryst.</i> (2021), <i>E77</i> , 247-250
3	Synthesis and antimicrobial activity of some novel 1,2-dihydro-[1,2,4] triazolo[1,5-a] pyrimidines bearing amino acid moiety; Mounir A. A. Mohamed, Adnan A. Bekhit, <u>Abd Allah O. A.</u> , Kadry A. M., Ibrahim T. M., Bekhit S. A., Amagase K. and El-Saghier A. M. M.; <i>RSC Advances</i> , (2021), 11, 2905. doi.10.1039/d0ra08189b
Year 2020	
1	Synthesis and antidiabetic activity of novel triazole derivatives containing amino acids; Mohamed M. A. A., <u>Abd Allah O. A.</u> , Bekhit A. A., Kadry A. M., El-Saghier A. M. M.; <i>J Heterocyclic Chem.</i> , (2020),57:2365–2378.
Year 2018	
1	Green synthesis, antileishmanial activity evaluation, and in silico studies of new amino acid-coupled 1,2,4-triazoles; El-Saghier A. M., Mohamed M.A., <u>Abd Allah O. A.</u> , Kadry A. M., Ibrahim M.T. and Bekhit A.A.; <i>Medicinal Chemistry Research</i> (2018). doi.org./10.1007/s00044-018-2274-x
2	Utility of Amino Acid Coupled 1,2,4-Triazoles In Organic Synthesis: Synthesis of Some New Antileishmanial Agents; El-Saghier A. M.M., Mohamed M. A.A., <u>Abd Allah O. A.</u> and Kadry A. M.; <i>Bull. Chem. Soc. Ethiop.</i> , (2018), 32(3), 559-570. doi.org/ 10.4314/bcse.v32i3.14
Year 2017	
1	An Efficient One Pot Three-Components Synthesis of Some New Polyhydroquinolines via Enaminone Intermediates; <u>Abdelhamid A.A.</u> , <u>Abd Allah O.A.</u> and <u>Tamam A.H.A.</u> ; <i>Journal of Heterocyclic Chemistry</i> ; (2017)54, 2822; doi.10.1002/jhet.2886.
2	Synthesis of Some New 1,8-Naphthyridines From N-(7-Chloro-5-Methyl-1,8-Naphthyridine-2-yl) Acetamide and 7-Amino-2-Chloro-4-Methyl-1,8-Naphthyridine; <u>Abd Allah O. A.</u> , El-Wassimy M.T. M. and Moustafa A. H.; <i>Journal of Chemical, Biological and Physical Sciences, Section A:Chemical Sciences</i> ,(2017),7(1),185-196
9	Ethyl 2-[9-(5-bromo-2-hydroxyphenyl)-3,3,6,6-tetramethyl-1,8-dioxo-1,2,3,4,5,6,7,8,9,10-decahydroacridin-10-yl]acetate; Mohamed S. K., Dege N., Akkurt M., <u>Abd Allah O. A.</u> and Albayati M. R.; <i>IUCrData</i> , (2017). 2, x170573
Year 2016	
1	Synthesis of Novel Coumarin Derivatives Based on 6-Aminocoumarin, Kinetic Inspection of Base Hydrolysis and Spectrophotometric Tracer of Intermediate Progress; <u>Abd Allah O. A.</u> and Nassr L. A. E.; <i>Monatshefte Fur Chemie</i> , (2016),146(9), 1-13

Lab instruments						
#	Device	quantity	Quality			
			Good	Poor	Need maintenance	malfunction
1	Hot Plate	1			√	
2	Hot Plate with stirrer	2			√	
3	Weight Balance	2	√	√		
4	stirrer	2	√			
5	UV Lamp	1				√
6	Oven	1			√	
7	Desiccator	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.
Weight Balance		A weighing balance is an instrument which is used to determine the weight or mass of an object. Available in a wide range of sizes with multiple weighing capacities they are essential tools in laboratories, commercial kitchens and pharmacies to name but a few.
stirrer		For stirring the chemical reactions.



كلية العلوم
Faculty of Science

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



جامعة سوهاج
University of Sohag

UV Lamp		A UV lamp can be used in numerous ways today and some of the most common include as a disinfection tool in water plants or for curing or oxidation in production plants. With over 40 years in the UV lamp business, Ultra light AG is ideally placed to offer its clients a customized service that recognizes their individual needs. In addition to its standard UV lamp range, the company can adapt lamps to your specifications for use in a particular process or production stage.
Oven		Oven is a device used for: Drying organic samples. Drying all types of glass.
Desiccator		Desiccator is a glass device used for preservation organic samples dried

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.	√		

- 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).