



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
Academic Year	2021 - 2022

Basic Information	
Department	Chemistry
Location	Building 1 – second floor
Total area (m²)	
Head of the Lab	Prof. Dr.Ahmed Mohammed El-sagher
Establishment date	

Lab Members					
No. of Staff	Prof.	Ass. Prof.	Lect.	Ass. Lect. & Demonstr.	Technicians
	2	0	1	1	



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Staff members

No.	Name	Scientific degree	E-mail	Specializations	Website
1	Ahmed Mohammed Mohammed El-saghier	Prof.	el_saghier@yahoo.com	Organic Chemistry	
2	Mounir Abbas Ali	Prof	mounir_abbas@yahoo.com	Organic Chemistry	
3	Asmaa Mahmoud kadry	Lecturer	Asmaa.kadry@science.sohag.edu.eg	Organic Chemistry	

Ass. Lecturers & Demonstrators

No.	Name	Scientific degree	E-mail	Specializations	Website
1	Asmaa Abdul Baset Mostafa	Demonst.	asmaa2016044@science.sohag.edu.eg	Organic Chemistry	



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Theses produced by the Lab		
M. Sc Thesis		
No.	Title	Approval date
1	تحضير بعض مركبات سبيرو غير متجانسه الحلقة.	1996
2	استخدام حمض الباراثيبوريك في تخليق بعض المركبات سبيرو والملتحمه الغير متجانسه الحلقة الجديده	2003
3	تحضير بعض مركبات البيميدينويات وتفاعلاتها لانتاج مشتقات ذات نشاط بيولوجي بطريقه صديقه للبيئه	2011
4	تحضير وتقيم الصفات البيولوجيه لبعض المركبات الحلقيه الغير متجانسه الجديده المشتقه من مشتقات الشالكون والكوركومين	2014
5	تخليق وتقييم بيولوجي لبعض مشتقات السلفوناميد والسلفونيل يوريا الجديده	2016



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	كعوامل معالجه لمرضي السكري	
6	دراسه فاعليه متشابهات ليفترون كموا دمنظمه الحشري ودراسه السمي و الخصائص البيولوجيه علي دوده ورقه القطن	2021
	Ph.D. Thesis	
1	دراسات علي بعض الفطريات المستهلكه للهيدروكربونات ودورها في التحليل الحيوي للتلوث النفطي	1993
2	تخليق وتقييم بيولوجي لبعض الاحماض الامينيه المتصله بمشتقات الترايزول باستخدام تفاعلات عديده المكونات	2020

Articles produced by the Lab	
Year 2021	
1	Mounir A. A. Mohamed , Adnan A. Bekhit, Omyma A. Abd Allah, Asmaa M. Kadry , Tamer M. Ibrahim, Salma A. Bekhit, Kikuko Amagase and Ahmed M. M. El-Saghier , “Synthesis and antimicrobial activity of some novel 1,2-dihydro-[1,2,4]triazolo[1,5- a]pyrimidines bearing amino acid moiety” RSC Adv.,2021,11,2905, DOI: 10.1039/d0ra08189b
Year 2020	
1	<u>Mounir A. A. Mohamed</u> , Omyma A. Abd Allah, Adnan A. Bekhit, Asmaa M. Kadry , Ahmed M. M. El-Saghier , :Synthesis and antidiabetic activity of novel triazole derivatives containing amino acids", <i>Journal of Heterocyclic Chemistry</i> , 2020 ;1–14. DOI: 10.1002/jhet.3951 <u>Mounir A.A. Mohamed</u> , Antar A. Abdelhamid, Hany M. Abd El-Lateef, Amr H. Moustafa, "Facile synthesis and assessment of 2-alkoxy-4-(4-hydroxyphenyl)-6-arylnicotinonitrile derivatives as new inhibitors for C1018-steel corrosion in HCl: A combined theoretical and experiential investigations", <i>Journal of the Iranian Chemical</i>

	<i>Society</i> , 2020. https://doi.org/10.1007/s13738-020-02083-x
2	Mounir A. A. Mohamed , Omya A. Abd Allah, Adnan A. Bekhit, Asmaa M. Kadry , Ahmed M. M. El-Saghier , "Synthesis and antidiabetic activity of novel triazole derivatives containing amino acids" <i>Heterocyclic Chem.</i> 2020;1–14, DOI: 10.1002/jhet.3951
	Year 2019
1	Ahmed M. El-Saghier , Mounir A. A. Mohamed , Omya A. Abd-Allah, Asmaa M. Kadry , Tamer M. Ibrahim, Adnan A. Bekhit; "Green synthesis, antileishmanial activity evaluation, and in silico studies of new amino acid-coupled 1,2,4-triazoles"; <i>Medicinal Chemistry Research</i> ; 28 ;169–181, 2019. Supplementary information: The online version of this article (https://doi.org/10.1007/s00044-018-2274-x) contains supplementary material, which is available to authorized users. https://doi.org/10.1007/s00044-018-2274-x



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2	16. Nagwa M. Elsayi, Wejdan, A. Aldajani, Mounir A. A. Mohamed, Ahmed. M. Ali, Gamal. S. A, Soad Shaker Ali, Sabra A. Abd Ellah, "Copper Nicotinate complex Abrogates Acrylamide Induced Hepatotoxicity in Male Rats: Biochemical and Histopathological Studies", International Journal of Food and Nutritional Science, 6(1): 21-31 (2019). DOI: 10.15436/2377-0619.19.2416 J Food Nutr Sci, 6(1): 21-31 (2019).
3	17. Mounir Abbas Ali Mohamed, Hanan Salah and Ahmed Mohamed Mohamed El-Saghier, Synthesis, Reactions and Biological Evaluation of Some Novel Thienothiophene Derivatives, <i>Eur. J. Chem.</i>, 10 (3) 209-217, (2019).
	Year 2018
1	Ahmed M.M. El-Saghier, Mounir A. A. Mohamed, Omayma A. Abdalla and Asmaa M. Kadry; "Utility of Amino Acid Coupled 1,2,4-Triazoles in Organic Synthesis: Synthesis of Some New



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	Antileishmanial agents "; Bull. Chem. Soc. Ethiop.; 2018, 32(3), 559-570. DOI: https://dx.doi.org/10.4314/bcse.v32i3.14
2	Ahmed M. El-Saghier, Mounier A. Mohamed , Omyma A. Abd-Allah, Asmaa M. Kadry , Tamer M. Ibrahim and Adnan A. Bekhit; "Green synthesis, antileishmanial activity evaluation, and in silico studies of new amino acid-coupled 1,2,4-triazoles". Medical Chemistry Research. 2018. https://doi.org/10.1007/s00044-018-2274-x
3	Ahmed M. El-Saghier , H. F. Abd El-Halim, Laila H. Abdel-Rahman and Asmaa M. Kadry ; "Green Synthesis of new Trizole Based Heterocyclic Amino Acids Ligands and their Transition Metal Complexes. Characterization, Kinetics, Antimicrobial and Docking Studies". Applied Organometallic Chemistry. 2018, 33(1). https://doi.org/10.1002/aoc.4641
	Year 2017



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1	Mounir A. A. Mohamed, Omar M. El-Hady and Ahmed M. El-Sayed, "Utility of Cyanoacetic Acid Hydrazide in Organic Synthesis: Synthesis and Characterization of Some Novel Heterocycles bearing 1,3,4-Oxadiazole Moeity"; J. Pharm. Appl. Chem., 3(2), 117-125, 2017 http://dx.doi.org/10.18576/jpac/030205
2	18. Hany M. Abd El-Lateef, Ahmed M. Abu-Dief, Mounir A.A. Mohamed, "Corrosion inhibition of carbon steel pipelines by some novel Schiff base compounds during acidizing treatment of oil wells studied by electrochemical and quantum chemical methods"; Journal of Molecular Structure, 1130, 522-542, 2017. http://dx.doi.org/10.1016/j.molstruc.2016.10.078
3	High Hydroxide Ion Conductivity with Enhanced Alkaline Stability of Partially Fluorinated and Quaternized Aromatic Copolymers as Anion Exchange Membranes Ahmed Mohamed Ahmed Mahmoud, Ahmed Mohamed Mohamed Elsaghier, Kanji Otsuji, and Kenji Miyatake Macromolecules, 50 (11), 4256–4266(2017)

	Year 2016
1	Nagwa M. El-Sawi, Asma S. Abdo, M. A. A. Mohamed, H. Salah, Madeha N. Al Seen and Mohamed T. El-Wassimy; "Assessment of Lycium Barbarum for detoxification of Patulin toxin and their effects on rat serum globulin"; Glo. Adv. Res. J. Environ. Sci. Toxicol, 5(2), 9-15, 2016. Global Advanced Research Journal of Environmental Science and Toxicology (ISSN: 2315-5140). http://garj.org/garjest
2	Mounir A. A. Mohamed, Maha G. A. Tamam and Ahmed M. M. El-Saghier; "Synthesis and Biological Evaluation of Some NovelSulfonylurea and Sulfonamide Derivatives under Phase Transfer Catalysis Conditions"; J. Pharm. Appl. Chem., 2(3), 173-180, 2016.Journal of Pharmaceutical and Applied Chemistry An International Journal http://dx.doi.org/10.18576/jpac/020307
3	Laila H. Abdel-Rahman, Ahmed M. Abu-Dief, Mohammed Ismael, Mounir A. A. Mohamed, Nahla Ali

	Hashem; " Synthesis, structure elucidation, biological screening, molecular modeling and DNA binding of some Cu(II) chelates incorporating imines derived from amino acids"; Journal of Molecular Structure, 1103, 232-244, 2016.
4	Synthesis and Biological Evaluation of Some Novel Sulfonylurea and Sulfonamide Derivatives under Phase Transfer Catalysis Conditions Mounir A. A. Mohamed ,Maha G. A. Tamam and Ahmed M. M. El-Saghier J. Pharm. Appl. Chem., 2, No. 3, 173-180 (2016)
5	Utilization of 2-Ylidene-4-thiazolidinones in Synthesis of Heterocyclic Compounds Part (II): Transformation of (4-Oxo-3-phenyl-1,3-thiazolidin-2-ylidene)malononitrile to 3-Aminothiophene Derivatives M. F. Farhat, M. A. Makhoulf, A. B. El-Mezoughi and A. M. El-Saghier Asian Journal of Chemistry; 28(8), 1823-1827 (2016).
6	Effect of ammonium groups on the properties of anion conductive membranes based on partially fluorinated aromatic polymers Ahmed Mohamed Ahmed Mahmoud, Ahmed Mohamed Mohamed El-Saghier and Kenji Miyatake RSC Adv., 6, 27862–27870(2016)



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7	One-pot Synthesis and An Antibacterial Activity of 2-(2-hydroxyphenyl)-4-oxothiazolidin-3-yl)alkyl/phenylthiazolidin-4- one Derivatives and Reaction with Aromatic Aldehydes Ahmed Mohamed Mohamed El-Saghier and NaglaaFawzy Hassan Mahmoud Ciência e TécnicaVitivinícola, 31 (3), 107-117 (2016).
8	Utilization of 2-Ylidene-4-thiazolidinones in Synthesis of Heterocyclic Compounds Part (II): Transformation of (4-Oxo-3-phenyl-1,3-thiazolidin-2-ylidene)malononitrile to 3-Aminothiophene Derivatives M. F. Farhat, M. A. Makhlouf, A. B. El-Mezoughi and A. M. El-Saghier .Asian Journal of Chemistry; 28(8), 1823-1827(2016).
	Year 2015
1	Omyma A. Abd Allah, Ahmed M. El-Saghier and Asmaa M. Kadry ; "Synthesis, Structural Stability Calculation and Antibacterial Evaluation of Novel 3,5 Diphenylcyclohex-2-En-1-One Derivatives". Synthetic Communications. 2015, 45 (8), 944-957. ISSN 0039-7911
	Year 2014
1	Synthesis, Structural Stability Calculation and Antibacterial Evaluation of Novel 3,5- Diphenyl -cylohex-2-en-1-One Derivatives Journal of Synthetic Communication, Accepted Dec. 2014 Omyma A. Abdalla, Asmaa M. Kadry and Ahmed M. M. El-Saghier



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2	Omyma A. Abd Allah, Ahmed M. El-Saghier and Asmaa M. Kadry ; "Synthesis of Novel Curcumin Derivatives Having Diverse Anti-inflammatory Activities". International Journal of Pharmaceutical Sciences Review and Research. 2014, 32(1), 87-92. ISSN 0976-044X.
3	"An Efficient Synthesis of Some New Azaspirocycloalkane Derivatives From 1-anilino-cycloalkanecarboxamide" by Mounir A. A. Mohamed , Hassam M. Moustafa and Mahmoud A. A. El-Remaly, Chemical Science Journal, 5 (1), xx-yy (2014). http://dx.doi.org/10.4172/2150-3494.1000083
4	. "Utility of Ceric Ammonium Nitrate (CAN) in Organic Synthesis: An Efficient One-pot Synthesis of Spiro[indoline-3,4'-quinazoline/pyrimidine]-ones" Lahsasni S., Mohamed M. A. A. and El-Saghier A. M. M. Research Journal of Chemistry and Environment, 18(12), 38-42 (2014).
	Year 2013
1	Ethyl 3-amino-5-anilino-4-cyanothiophene-2-carboxylate



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	Ahmed M. M. El-Saghier , Mehmet Akkurt, Shaaban K. Mohamed, Peter N. Horton and Mustafa R. Albayati ActaCryst. (2013). E69, o1244–o1245
2	2,2'-(1,3,4-Thiadiazole-2,5-diyl)bis(sulfanediyl)]diacetonitrile Joel T. Mague, Mehmet Akkurt, Shaaban K. Mohamed, Ahmed M. M. El-Saghier , and Mustafa R. Albayati ActaCryst. (2013). E69, o1855
3	2-(4-Oxo-3-phenyl-1,3-thiazolidin-2-ylidene)propanedinitrile Mehmet Akkurt, Ahmed M. M. El-Saghier , Sabry H. H. Younes, Peter N. Horton and Mustafa R. Albayati ActaCryst. (2013). E69, o1313
4	Design, Synthesis and Antibacterial Evaluation of some new 3,5-Diphenylcyclohex-2-en-1-one Derivatives Ahmed M. M. El-Saghier , Omyma A. Abd Allah and Asmaa M. Kadry J. Advances Chem. 6(1) 923-929, (2013)
5	Alkenoyl ketene S,S- and N,S-Acetals As Starting For Unexpected and Novel Synthesis of N-Heterocycles Ahmed M. M. El-Saghier , Mansour A. Makhoulouf, Naglaa F. H. Mahmoud and Wedad A. El-Adawish J. Advances Chem. 6(1) 861-872, (2013).
6	"Utility of α -Oxoketene Dithioacetals in Organic Synthesis: Synthesis of Some New Spiro Quinazolin-4-(3H)-one Derivatives" by Mounir A. A. Mohamed and H. Salah, Journal of American Science,

	9(5), 54-59, 2013, (ISSN: 1545-1003).
	Year 2012
1	"Recent advances in the chemistry of thienozoles" by Ahmed M. El-Saghier, Hossam Abdel-Ghany, Mounir A. Mohamed, and Sabry H. Younes; Trends in Organic Chemistry; 15, 1-24, 2011. "Ceric (IV) a Facile and Eco-friendly Catalysis in Heterocyclic Synthesis: A One-Pot Synthesis of Pyrimido[4,5-d]pyrimidines" by M. A. A. Mohamed, N. M. Fawzy and A. M. M. El-Saghier; Chemistry Journal; 2(2), 101-105, 2012, (ISSN 2049-954X).
2	"Organic Synthesis Using α-Alkenoyl Ketene-(S,S)- and (N,S)-Acetals: Unexpected and novel Synthesis of N-Heterocycles" Ahmed M. M. El-Saghier, Mansour A. Makhoulouf, Wedad A. El-Adawish and Naglaa F. Mahmoud Tetrahedron under publication
3	"One-Pot Synthesis of Dihydropyrimidin-2(1H)-ones Catalyzed by Ceric (IV) Ammonium Nitrate (CAN) under Solvent Free Conditions" Eman A. Ahmed*, Mounir A. A. Mohamed and Ahmed M. M. El-Saghier



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	Journal of American Science, XX, 8 (2012)
4	"Ceric (IV) Ammonium Nitrate Catalyzed Facile and Eco-Friendly Synthesis of Pyrimido[4,5-d]pyrimidines Through Biginelli Reaction" Mounir A. A. Mohamed, Naglaa F. Mahmoud and Ahmed M. El-Saghier Chemistry Journal, Vol. 02, Issue 02, pp. 101-105 (2012),
5	"Synthesis and Antibacterial of Certain Fused Azoles and Oxazinones " Ahmed M. El-Saghier*, Embarak F. Alwedi and Naglaa M. Fawzy Journal of Heterocyclic Chemistry, 664-668, 49(2012)
	Year 2011
1	1- " Utility of α -Oxoketene Dithioacetals in Organic Synthesis: Synthesis of Some New benzothiazepine derivatives"; by M. A. A. Mohamed; Synthetic Communications; 41, 331-340, 2011.
2	."Recent advances in the chemistry of thienozoles" by Ahmed M. El-Saghier, Hossam Abdel-Ghany, Mounir A. Mohamed, and Sabry H. Younes; Trends Organic Chemistry; 15, 1-24, 2011.
3	. Thieno[2,3-b]thiophenes: Part 7. Some Heterocyclization Reactions with Ethyl 5-cyano-3,4-

	diaminothieno;2,3-b]thiophene-2-carboxylate Ahmed M. Khodairy and Ahmed M. M. El-Saghier Acta Chim. Slov, 58, (2011)
4	. The Chemistry of Thienoazoles " A Review Article, A.M. M. El-Saghier, H. A. Abdel-Ghany, Mounir A. A. Mohamed and Sabry Yunis Trend in Heterocyclic Chemistry, 1-24, 15 (2011).
	Year 2010
1	. "Utilization of 2-ylidene-thiazolidinones in the synthesis of heterocyclic compounds. Part I: Synthesis of pyrazoles " Mahmoud F. Farhat, Mansour A. Makhlouf, Ahmed M. El-Saghier, Aysha B. A. Mezoughi, Salma M. AAwhidandamal A. M. El-mehdi Arabian Journal of Chemistry (2011) 4, 307–311 (2010)
	Year 2008
1	2- "Studies on organophosphorus compounds: Synthesis and reactions of [1,2,4,3]triazaphospholo[4,5-a]quinoxaline derivative"; by H. M. Moustafa and M. A. A. Mohamed; Heteroatom Chemistry; 19(5); 520- 529(2008).
2	.

	"Synthesis and Biological Evaluation of Some New Thienopyridine and Thienopyrimidine Derivatives " Ahmed M. El-Saghier*, Fathy S. Matough, Mahmoud F. Farhat, Nabil A. Saleh, Khaled M. Kreddan, Somaia O. El-Tier and Hind Bin Hussien. Journal of Jordan Chemistry, 3(3), 223-232, (2008).
3	.
	Year 2007
1	. "Synthesis and antibacterial activity of some new fused chromenes" Ahmed M. M. El-SaghieraMahbouba B. Naili,BahlulKh. Rammash,Nabil A. Saleh,andKhaled M. Kreddan. ARKIVOC (xvi,) 83-91(2007).
2	. "Ketene N,S-acetals in heterocyclic synthesis: Part 1: SynthesisofN-phenyl-2-ylidene and 2,5-diylidene-4-thiazolidinonederivatives" M. F. FARHAT, A. M. M. EL-SAGHIER, M. A. MAKHLOUF, K. M. KREDDANand A. B. ELMEZOUGHJ Journal of Sulfur Chemistry, 28(6), , 563–572, (2007).
	Year 2006
1	"1,4-Diazepines Bearing Thieno(2,3-b)thiophene and Cyclohexene Carboxylate Moieties" Ahmed M. M. El-Saghier, Mansour A. Makhlof and Mahmoud F. farhat Phosphorus, Sulfur and Silicon, 181, 1569-1582(2006).



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	. Year 2004
1	A Novel Synthesis of Spiro 1,3-Dithiin and 1,3-Thiazine Derivatives Via Cyanoketeneacetals under PTC conditions. Ahmed M. M. El-Saghier Phosphorus, Sulfur and Silicon, 179, 1-14(2004)
Year 2003	
1	3- "Experimental and theoretical studies on pyrolysis of O-acetyl derivatives of β-henylcinnamaldehyde and benzaldehyde oximes"; by M. A. A. Mohamed; U. Siedlecka and J. Suwiński; Pol. J. Chem.; 77(5); 2003; 577- 590.
2	. Synthesis of Some New Polyfused Thienothiophenes Part 4: Synthesis of Thienopyrimidine, Thienotriazine, Thienoimidazo-triazine, Thienotriazolo-triazine, and Thienotetrazolotriazine Derivatives. H. M. Moustafa, A. M. Khodairy and Ahmed M. M. El-Saghier Phosphorus, Sulfur and Silicon 178, 1211-1224(2003).



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Year 2002	
1	4- .“Tandem Pericyclic Reactions in Organic Synthesis of Azines. Part I. PM3 Study of Thermal Behavior of 1-Aza-1,3,5-hexatrienes”; by J. Suwiński and M. A. A. Mohamed; Zesz. Nauk. Politech. Śląsk. Chem.; 147; 2002; 5.
2	“ One-Pot Synthesis of PolyfusedPyrazoles. Gamal A. El-Saraf, Ahmed M. El-Sayed andAhmed M. M. El-Saghier. Heteroatom 14(3), 211-217(2003). 28- -“A Simple Synthesis of Some New Thienopyridine and Thieno pyrimidine Derivatives” A.M. M. El-Saghier. Molecules 7, 756-766(2002).
3	. A Novel One-Pot Synthesis of Polyfunctionally Substituted Thiopyrano(2,3-b)pyridine and Pyrido(2,3-b)pyridine Derivatives under Solid-Liquid Phase-Transfer Catalysis". A. M. M. El-Saghier. Sohag UniversityFaculty of Science Phosphorus, Sulfur and Silicon,177 1213(2002).
Year 2001	
1	5- “Semiempirical Calculations in search for a Mechanism of 2-Methyl-4-



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	phenylquinoline Formation from 4,4-Diphenyl-3-buten-2-one Oxime Acetate”; by J. Suwiński and M. A. A. Mohamed; Pol. J. Chem.; 75; 2001; 965.
2	. -“Synthesis of some New Pyrolo(2,3-f)Benzopyrrol-4,8-dione Derivatives” A. M. Soliman and A. M. M. El-Saghier Journal of Synthetic Communication, 31(14), 2149(2001)
	Year 2000
1	-"New Synthetic Approaches To Condensed and Spiro Coumarins: Coumarin-3-Thiocarboxamide as Building Block for the Synthesis of Condensed and Spiro Coumarins". A. M. M. El-Saghier, and A. Khodairy. Phosphorus, Sulfur and Silicon, 160,105-119(2000).
2	
	Year 1999
1	"A Novel Synthesis of Pyrano(2,3-c)-1,3-Oxazino(2,3-b)-1,2,4-Triazolo(3,4-b)- and 3-Substituted(1,5)benzodiazepin-2-one". A. M. El-Sayed, H. A. Abdel-Ghany and A. M. M. El-Saghier. Journal of Synthetic Communication, 29(20),3561-3572(1999)
	Year 1997
1	. -"Synthetic Reactions of Coumarin-3-(4-Aminosulfonyl)-Carbanilide Derivatives with reactive Methylene

	Compounds". A. M. M. El-Saghier, and El-Jazi I. Al-Afaleq. Phosphorus, Sulfur and Silicon,139,67-75(1998).
2	. -"Utility of α -OxoketeneDithioactetal in Organic Synthesis: Synthesis of some New Spiro(pyran-4,2'-Benzothiazole) Derivatives". A. M. El-Sayed, A. M. M. El-Saghier, M. A. A. Mohamed and A. K. El-Shafei. Gazz.Chem. Ital., 127,605-608(1997).
3	-"Utility of α -OxoketeneDithioactetal in Organic Synthesis: Synthesis of some New Spiro(pyran-4,2'-Benzothiazole) Derivatives". A. M. El-Sayed, A. M. M. El-Saghier, M. A. A. Mohamed and A. K. El-Shafei. Gazz.Chem. Ital., 127,605-608(1997).
	Year 1996
1	-"A Novel Synthesis of Triazolo[2,1-d][1,2,4]Triazine and Imidazo[2,1-d][1,2,5]Triazepine Derivatives via ketene N,N-Acetal". A. M. M. El-Saghier, Abdussalam A. Maihub and Hatif A. Al-Shirayda. Journal of Synthetic Communication, 27(14),2433-2444(1996).
2	"A Novel Synthesis of Heterocyclic Compounds Derived from α -Ketoketene S,S-Acetals". H. A. Abdel-Ghany, A. M. M. El-Saghier, and A. M. El-Sayed.



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	Journal of Synthetic Communication, 26(22),4289-4297(1996).
3	. 37- "Synthesis of some New S-Substituted Thio- and Thieno(2,3-b)-benzo(h)quinoline Derivatives". Etify A. Bakhite, Shaban M. Radwan and A. M. M. El-Saghier. Indian Journal of Chemistry, 34B,97-101(1995).
	Year 1995
1	A One-Pot Synthesis of some New Fused Heterocyclic Containing A bridgehead Nitrogen Atom Under PTC Condition. A New Application of Cyanoketene-S,S-Acetals". A.K. El-Shafei, A. M. Soliman, A. Sultan and A. M. M. El-Saghier. Gazz.Chem. Ital., 125,115-118(1995).
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Lab instruments						
No.	Device	quantity	Quality			
			Good	Poor	Need maintenance	malfunction
1	Hot Plate	1		√		
2	Hot Plate with stirrer	1		√		
3	UV Lamp	1	√			
4	Refrigerator	2	√			
5	Water bath	2	√			
6	Oven	1	√			
7	Desiccator	2	√			
8	Digital balance	1	√			
9	Computer	2	√			



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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.
UV Lamp		UV lamp is a device used for: • For detection the formation of products from reaction mixtures. • To view organic samples on TLC plates.
Refrigerator		Refrigerator is a device used for keeping food or other items cool.
Water bath		Water bath is a device used for making organic reactions under vapour of water condition.
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.
Digital balance		A digital balance is used to weigh different chemical substances that used during different chemical reactions.
Computer		A computer is a digital electronic machine that can be programmed to carry out sequences of arithmetic or logical operations.

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).