



Ain Shams University

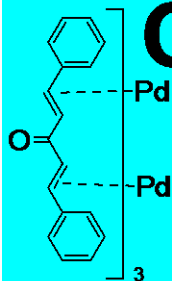
Research Equipment Registration Sheet

Faculty: Science Department: Chemistry Laboratory: Organometallic Synthesis Lab.

Code¹	Instrument	Specifications²	Applications and Usage of the Instrument	Contact Person³	Status of the instrument⁴	Remarks
Asu/sci/chem -1	UV Lam.	<i>Good working</i>		<i>Prof. Dr. Elgazwy</i>	Good	1
Asu/sci/chem -1	High digital weight balance Apparatus	<i>Good working</i>		<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Rotatory evaporator Apparatus of Rotary Evaporation by BUCHI (Rotavapor® R-210/R-215	Good working which essential for different types of distillation under difference temperature	The Rotavapors R-210/215 can be used for all kind of applications in different kind of laboratories. It not only combines maximum safety for the user but also for the product. The complete solution with vacuum controller , vacuum pump and recirculating chiller allows you to evaporate your solvents in the most efficient and gentle way	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Rotary Vacuum Evaporator Specifically configured for culinary	Needs repair which used for The PolyScience culinary evaporator package gives you unlimited possibilities in	Essentially, the system allows vaporizing liquids at room temperature level. This happens by changing the atmospheric pressure inside the system by the use of a vacuum pump.	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Need repair	1

	applications	evaporation, distillation and separation, concentration of flavors, and purification of liquids	As a result most of the volatile aromas are preserved. The heated water bath and rotating flask of the distillation glassware.			
Asu/sci/chem -1	Water pump Apparatus	<i>Good working</i>	vacuum controller, vacuum pump	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Oil pump Apparatus	<i>Good working</i>	vacuum controller, vacuum pump	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Air pump Apparatus	<i>Good working</i>	vacuum controller, vacuum pump	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Ultasonic (Sonochemistry)	Good working and is new used for the synthesis of organic compounds and inorganic complexes	The use of ultrasound in chemical reactions in solution provides specific activation based on a physical phenomenon: acoustic cavitation in the Applying ultrasound,	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Microwave for synthesis	Good working	Used for the any types of chemical reactions.		Good	1
Asu/sci/chem -1	Nitrogen tank connected with Nitrogen tank Gages	Good working	Used for the chemical reaction under nitrogen for oxidation reactions for organic/organometallic synthesis	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Acetylene tank	Good working	Used for the insertion	<i>Prof. Dr. Elgazwy</i>	Good	1

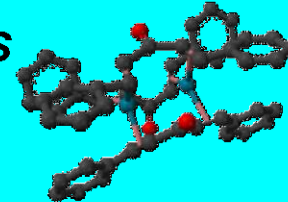
	connected with acetylene tank Gages		reactions in organic synthesis and organometallic synthesis	Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg		
Asu/sci/chem -1	measuring melting apparatus digital	<i>Good working</i>	For measuring the melting point of organic/organometallics compounds	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Fridge	<i>Good working</i>	For keep the fine chemical under cooling	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Heat oven	<i>Good working</i>	For during the glassware	<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Macintosh Computer Labs	<i>working</i>		<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	1
Asu/sci/chem -1	Hotplate magnetic stirrer Apparatus	<i>Good working</i>		<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	3
Asu/sci/chem -1	magnetic stirrer Apparatus	<i>Good working</i>		<i>Prof. Dr. Elgazwy</i> Tel./Fax +202-24831836 Interior office Phone; 2006 Lab. Phone; 2008 Elgazwy@sci.asu.edu.eg	Good	2



Organometallic Synthesis Lab.

Palladium Cross-coupling Reactions

Department of Chemistry, Faculty of Science,
Ain Shams University, Cairo, Egypt



Group Leader : **Abdel-Sattar S. Hamad Elgazwy**

Professor of Organic Chemistry

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Cairo, Egypt

Tel./fax: +2-0224831-836 (interior 2006, 2008 Lab)

E-mail: elgazwy@sci.asu.edu.eg



Education:

Ph.D., 1997: Department of Chemistry, Faculty of Science, Ain Shams University, Abbassia 11566, Cairo, Egypt in collaboration with Chemistry School, Minnesota University, Mineapolis, Minnesota MN, 55455, USA. (Organic Chemistry)

M.Sc., 1992: Department of Chemistry, Faculty of Science, Ain Shams University, Abbassia 11566, Cairo, Egypt (Organic Chemistry)

B.Sc., 1986: Department of Chemistry, Faculty of Science, Ain Shams University, Abbassia 11566, Cairo, Egypt. (Chemistry).

Postdoctoral and Professional Background:

01/2009-present: Department of Chemistry Faculty of Science, Ain Shams University, Cairo, Egypt. Professor of Organic Chemistry and head of Organic Chemistry branch.

09/2006-08/2007: Department of Chemistry, Southern Methodist University SMU, Dallas TX, Taxes USA Research Associate

08/2005-07/2006: Institute of Biochemistry, University of Balochistan, Quetta, Pakistan Foreign Professor at HEC

03/02-05/2007: Department of Chemistry, Faculty of Science, Sultan Qaboos University, Oman. Visiting Consultant; (Teaching Program)

02/07-09/2000: Institut für Organische Chemie, Universität Regensburg, Germany, with Prof. Dr. Oliver Reiser. Visiting Professor

03/06/2003: Department of Chemistry Faculty of Science, Ain Shams University, Cairo, Egypt. Associate Professor
Postdoctoral grant by the Spanish Ministry of Education and Culture, at Universidade de Murcia, Murcia, Spain. Postdoctoral Associate

07/2002-07/2003: Postdoctoral grant by the Spanish Foundation for Science and Technology (Fundación Séneca), at Universidad de Murcia, Murcia, Spain. Postdoctoral Associate

01/10/2001-03/2002: Portuguese Foundation for Science and Technology, Universidade de Minho, Braga, Portugal. Postdoctoral Associate
Postdoctoral Grant from Industrial Fellowship (Navitus Pharmaceutical company) with Professor Dieter Schinzer, Otto-Von-Guerick University, Magdeburg, Germany. Postdoctoral Associate

01/07/-01/2000: Department of Chemistry Faculty of Science, Ain Shams University, Cairo, Egypt. Assistant Professor (Lecturer);

01/-03/1997

09/1994-09/1996: Chemistry Department, University of Minnesota, Minneapolis 55455, MN, USA. Teaching Assistant
Mission granted by Ministry of High Education (MHE warded) for Ph.D. thesis at University of Minnesota,

Research Areas: **The major research interests in the group have been focused on:**

- Novel synthesis of organic compounds via oxidative addition reactions using Pd(dba)₂ complexes.
- Transition metal complex via N, S,-heterocyclic ligands
- Synthesis of novel Porphyrin.
- Catalytic C-H and C-X (X =: Cl, O, S, N) bond activation.
- Synthesis of novel Organophosphorus compounds
- Synthesis of novel Palladacycles
- Cross-Coupling reactions in Organic Synthesis such as Suzuki, Negishi, and Stille

List of the Lab. Group

Dr. Saad R. Att-Allah, Lecturer saadm1964@yahoo.com



Dr. Ekhlass A. Nassar. Assist. Professor ekhlass_nassar@hotmail.com



Dr. Ibrahim F. Nassar, Lecturer (e-mail; ibrahimnassar72@yahoo.com)



Alla M. Zidan, MSc. Student alaazidane@gmail.com



Shrief, Ph.D. Student



SOME RECENT PUBLICATIONS

1. **Review Article**; "Palladacycles as antimicrobial agents" Abdel-Sattar S. HamadElgazwy*, Nasser S. M. Ismail, Saad R. Atta-Allah, Marwa T. Sarg, Dalia H. S. Soliman and Mohammed A. Elgamasy *Current Medicinal Chemistry* **2012**, Vol. 19, No. 23, 3967-3981. Impact Factor 4.859
2. Three-Dimensional Quantitative Structure-Activity Relationship (QSAR) of Cytotoxic Active 3,5-diaryl-4,5-dihydropyrazole analogs: A Comparative Molecular Field Analysis (CoMFA) Study Abdel-Sattar S. HamadElgazwy*, Dalia H. S. Soliman, Saad R. Atta-Allah and Diaa A. Ibrahim *Central Chemistry Journal* **2012**; 6; 50 IF = 3.28.
3. Molecular modeling study of bioactive natural products of Khellin analogues as a novel potential pharmacophore of EGFR inhibitors Abdel-Sattar S. Hamad Elgazwy*, Mastoura M. Edrees, Nasser S. M. Ismail, published in *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2012. (doi:10.3109/14756366.2012.719504)
4. Synthesis, Biological Evaluation of Some 2,3-dihydropyrazoles and Thiazoles as Anti-inflammatory and Antibacterial Agents Abdel-Sattar S. Hamad Elgazwy*, Ekhlass Nassar and Myssoune Y. Zaki, *Organic Chem Current Res* **2012** 1:112, Volume 1, Issue 5, doi: [10.4172/2161-0401.1000112](https://doi.org/10.4172/2161-0401.1000112)
5. A convenient synthesis and molecular modeling study of novel purine and pyrimidine derivatives as CDK2/cyclin A3 inhibitors Abdel-Sattar S. HamadElgazwy*, Nasser S. M. Ismail, Heba S. A. Elzahabi *Bioorganic & Medicinal Chemistry* **2010**, 18, 7639–7650. IF = 3.033.
6. **Review article**; "The Chemistry of Isothiazoles" Abdel-Sattar S. HamadElgazwy, *Tetrahedron*, **2003**, 59, 7445-7463, and *Tetrahedron report* 650. IF = 2.817 cited in *J. Org. Chem.* **2004**, 69(7), 2642–50. And *J. Org. Chem.*, **2004**, 69 (14), pp 4871–4878