

MOOSA BASEM

PERSONAL DETAILS

- Male, Married(2 daughter); Born on 31th Aug 1976

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EDUCATION

1995-1999 B. Sc./ Chemistry The University of Jordan, Amman, Jordan

1999-2003 MSc /Organic Chemistry The University of Jordan, Amman, Jordan

Thesis Title: Synthesis of some thiophene-fused azepino[5,4,3-cd]indoles and β -Carbolines
Supervisor: Prof Dr. Mustafa El-Abadelah

2005- 2010 PhD. /Organic Chemistry (KFUPM), Dhahran, KSA.

Thesis Title: Asymmetric Induction In 1,3-Dipolar Cycloaddition Using Chiral Nitrones
Supervisor : Prof Dr. Shaikh A. Ali

FELLOWSHIP AWARDED

- 2005- 2010 Scholarship from ministry of higher education (KSA).
- 2005- 2010 Scholarship from King Fahd University of Petroleum and Minerals (KFUPM/ KSA).
- Member in American Chemical Society (Saudi Chapter).

HIGHLIGHTS

- Expertise in modern spectroscopic and chromatographic techniques. Sound knowledge of scanning ¹H, ¹³C, DEPT, 2D (COSY, NOESY, HMBC, HMQC) NMR, on JOEL- 500 MHz and BRUKER- 400, 500 MHz spectrometers, GC-MS, Polarometer, Elemental analyzer, GPC, IR, UV-VIS, HPLC.
- Excellent skills in handling air sensitive reagents and reactions.

LIST OF PUBLICATIONS

- pH-triggered micellar membrane for controlled release microchips : Yang, Xiaoqiang; Moosa, Basem A.; Deng, Lin; Zhao, Lan; Khashab, Niveen M, *Polymer Chemistry* (2011), 2(11), 2543-2547.
- Racemic methyl 3,10-dioxa-2-azatricyclo[6.2.1.0^{2,6}]undecane-4-carboxylate : Moosa, Basem A.; Fazal, Atif; Ali, Shaikh A.; Fettouhi, Mohammed, *Acta Crystallographica, Section E: Structure Reports Online* (2011), E67(5), o1245.
- An improved total synthesis of spermatinamine, an inhibitor of isoprenylcysteine carboxy methyltransferase: Ullah, Nisar; Haladu, Shamsuddeen A.; Mosa, Basem A., *Tetrahedron Letters* (2011), 52(2), 212-214.
- Short stereoselective synthesis of epicalvine : **Basem A. Moosa** and Shaikh A. Ali , *Natural Product Communications*. (2010), 5(8), 1191-1194.

5. Regioselective transformation of 6/5-fused bicyclic isoxazolidines to second-generation cyclic aldonitrone: **Basem A. Moosa** and Shaikh A. Ali, *ARKIVOC* (Gainesville, FL, United States) (2010), (10), 132-148.
6. Peracid induced ring opening of some hexahydro-2H-isoxazolo[2,3-a]pyridines to second-generation cyclic aldonitrone : **Basem A. Moosa** and Shaikh A. Ali , *Tetrahedron*. 2009, 65, 39, 8231-8243.
7. Synthesis and stereochemical analysis of some norephedrine-derived isoxazolidines: **Basem A. Moosa**, Mohamed I. M. Wazeer, Mohammed B. Fettouhi, and Shaikh A. Ali *Journal of Physical Organic Chemistry* 2009, 22 212–220.
8. Pictet-Spengler Synthesis of Some Thiophene[c]-Fused β -Carbolines : Kayed A. Abu Safieh, **Basem A. Moosa**, Mustafa M. El-Abadelah, Salim S. Sabri, and Wolfgang Voelter *Monatshefte fur Chemie*, 2008, 139,147.
9. Synthesis of some thiophene-fused azepino[5,4,3-cd]indoles: **Moosa BA**, Abu Safieh KA, El-Abadelah MM *Hetrocycles*, 2002, 57, 1830.