

Curriculum Vitae

Mustafa Mohammed Musa El- Abadelah

Personal information

Family Name: El- Abadelah
First Name: Mustafa
Other Names: Mohammed Musa
Place and Date of Birth: Khan-Yuniss (Gaza, Palestine) - 07/07/1934
Nationality: Jordanian
Highest Degree: Ph.D, Organic Chemistry, London University (July, 1968)

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Appointments

- Assistant Professor: 24/09/1968 – 01/01/1973 (The University of Jordan)
- Associate Professor: 02/01/1973 – 28/08/1977 (The University of Jordan)
- Professor: 29/08/1977- 18 Sep. 2004 (The University of Jordan)

- Researcher: Sept. 2004- Sept. 2007 (Chemistry Department, The University of Jordan)
- Lecturer: Sept. 2009-Sept. 2011 (The University of Jordan)
- Professor Emeritus: July, 2011 (The University of Jordan)
- Researcher: Sept. 2011 - Sept. 2015 (Chemistry Department, The University of Jordan)

Positions

- Chairman of Chemistry Department:
 - Sept.1979 – Sept.1980 (The University of Jordan)
 - Sept.1987 – Sept.1988 (The University of Jordan)
- Visiting Researcher: KISR, Kuwait (Sept.1978 – Sept.1979) / Sabbatic Leave.
- Vice – President for Academic Affairs: (Sept.1982 – Sept.1984)
 - The Islamic University – Gaza / Leave without pay
- Chairman of Basic Sciences Department: (Sept.1992 – Sept.1993)
 - Applied Science University – Amman / Sabbatic Leave
- Acting Dean: Faculty of Arts and Sciences (Sept.1995 – Sept.1996)
 - Applied Science University – Amman / Sabbatic Leave
- Visiting Professor: Sept. 1998 – Sept. 1999 (The Hashemite University, Zarka, Jordan) / Sabbatic Leave.

Conferences

- Heterocyclic Chemistry: July, 1979 (Tampa, Florida,USA)
- International Conferences on Circular Dichroism (CD) and Molecular Chirality:
 - CD ‘ 78, Sept. 1978, Brighton, UK
 - CD ‘ 91, Sept. 1991, Bochum, Germany
 - CD ‘ 97, Sept. 1997, Pisa, Italy
 - CD ‘ 99, Sept. 1999, Mierki, Poland
- European Symposium in Organic Chemistry (ESOC-14), July, 2005, Helsinki, Finland

- The 11th Eurasia Conference on Chemical Sciences (EuAsC2S-11), October 2010, Dead Sea, Jordan

Master program in Chemistry

Supervision / Co-supervision of M.Sc. Research Projects in Organic Chemistry (72 M.Sc Graduates, 1972 – till now)

Ph.D program in Chemistry

Supervision of Ph.D Research Projects in Organic Chemistry (6 Ph.D graduates, 1999 – till now)

Teaching Experience

Organic Chemistry 1 (Lectures)

Organic Chemistry 2 (Lectures)

Organic Chemistry 3 (Lectures)

Special topics in Organic Chemistry (B.Sc.)

Practical Organic Chemistry 1 (Lab)

Practical Organic Chemistry 2 (Lab)

Systematic Identification of Organic Compounds

Heterocyclic Chemistry (Graduate Course)

Stereochemistry (Graduate Course)

Advanced Organic Synthesis (Graduate Course)

Advanced topics in Organic Chemistry (Graduate Course)

Publications

- 1) Barrett, Graham C.; **El-Abadelah, M. M.**; Hargreaves, Michael K. **Novel cleavage of α -phenylazo- α -methylacetoacetanilide by boron trifluoride.** *Chemistry & Industry* (London, United Kingdom) (1966), 2130-1.
- 2) Barrett, Graham C.; **El-Abadelah, M. M.**; Hargreaves, Michael K. **Cleavage of 2-acetyl-2-phenylazopropionanilide and related compounds by boron trifluoride. New Japp-Klingemann reactions.** *Journal of the Chemical Society (C)*, (1970), 1986-9.
- 3) **El-Abadelah, M. M.**; Abu-Odeh, Y. **Action of bromine on formaldehyde (2,4-dinitrophenyl)hydrazone.** *Chemistry & Industry* (London, United Kingdom) (1972), 934.
- 4) Snatzke, G.; **El-Abadelah, M. M.**; Nazer, M. Z. **Circular dichroism. LVII. Chiroptical properties of α -halopropionanilides.** *Tetrahedron* (1973), 29, 487-95.
- 5) **El-Abadelah, M. M.** **Synthesis of new optically active α -alkoxypropionanilides.** *Tetrahedron* (1973), 29, 589-91.
- 6) Snatzke, Guenther; **El-Abadelah, Mustafa M** **Synthesis of optically active α -halopropionanilides.** *Chemische Berichte* (1973), 106, 2072-5.
- 7) Snatzke, Guenther; Fox, John E.; **El-Abadelah, Mustafa M.** **Determination of the optical purity of substituted N-phenylpropionamides by NMR spectroscopy.** *Organic Magnetic Resonance* (1973), 5, 413-17.
- 8) **El-Abadelah, Mustafa M.** **Mechanism of cleavage of diazoamino compounds by boron trifluoride.** *Egyptian Journal of Chemistry* (1973), 16, 455-7.
- 9) **El-Abadelah, Mustafa M.** **Optical rotatory power of some α -halopropionanilides.** *Egyptian Journal of Chemistry* (1973), 16, 401-9.
- 10) **El-Abadelah, Mustafa M.** **Phosgene 2,4-dinitrophenylhydrazone.** *Chemistry & Industry* (London, United Kingdom) (1976), 164.

- 11) **El-Abadelah, M. M.**; Sabri, S. S.; Nazer, M. Z.; Za'ater, M. F. **Synthesis and chiroptical properties of some N-(3-methyl-2-quinoxaloyl) L-amino acids and their dioxides.** *Tetrahedron* (1976), 32, 2931-8.
- 12) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Owais, Wajih, M.; Tabba, Hani D. **Phenylhydrazone derivatives of N-acetoacetyl amino compounds: a new antitachycardiac agent.** *Chemistry & Industry* (London, United Kingdom) (1977), 200-1.
- 13) Sabri, Salim S.; **El-Abadelah, Mustafa M**; Za'ater, Mohammed F. **Chiroptical properties of N-acetoacetyl- α -amino-acids, -amino-alcohols, and -amines.** *Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry* (1972-1999) (1977), 1356-9.
- 14) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Tabba, Hani D.; Duddeck, Helmut. **Optical shift PMR spectroscopic studies on some quinoxaline amino esters and dipeptides.** *Journal of Heterocyclic Chemistry* (1977), 14, 871-6.
- 15) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Jarrar, Adil A.; Abu Zarga, Musa H. **Chiroptical properties of N-(2-pyrazinoyl)- α -amino-esters, α -aziridines, and related compounds.** *Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry* (1979), 2881-5.
- 16) **El-Abadelah, Mustafa M**; Khan, Zahida H.; Anani, Ali A. **Facile reduction of benzofuroxans into o-quinone dioximes.** *Synthesis* (1980), 146-7.
- 17) **El Abadelah, M. M.**; Sabri, S. S.; Tashtoush, H. I. **Selective monodeoxygenation of quinoxaline-amino acid and ester dioxides.** *Tetrahedron* (1979), 35, 2571-6.
- 18) **El-Abadelah, Mustafa M**; Anani, Ali A.; Khan, Zahida H.; Hassan, Ata M. **Chiroptical properties of some N-5(6)-benzofuroxanoyl-L- α -amino acids and esters.** *Journal of Heterocyclic Chemistry* (1980), 17, 213-17.

- 19) **El-Abadelah, Mustafa M**; Anani, Ali A.; Khan, Zahida H.; Hassan, A. M.; Katrib, Ali. **Deoxygenation and x-ray photoelectron studies on some quinoxalines and their N-oxides.** *Journal of Heterocyclic Chemistry* (1980), *17*, 1671-80.
- 20) **El-Abadelah, Mustafa M**; Anani, Ali A.; Khan, Zahida H. **A one-step synthesis of 2-formylquinoxaline 1,4-dioxides.** *Heterocycles* (1982), *19*, 1663-5.
- 21) Hussein, Ahmed Q.; **El-Abadelah, Mustafa M**; Sabri, Wail S. **Heterocycles from nitrile oxides. I. 5-Imino- \square^2 -1,4,2-oxathiazolines.** *Journal of Heterocyclic Chemistry* (1983), *20*, 301-4.
- 22) Sabri, Salim S.; **El-Abadelah, Mustafa M**; Owais, Wajih M. **Syntheses and antibacterial activity of some new N-(3-methyl-2-quinoxaloyl) amino alcohols and amine 1,4-dioxides.** *Journal of Chemical and Engineering Data* (1984), *29*, 229-31.
- 23) Hussein, Ahmad Q.; **El-Abadelah, Mustafa M**; Sabri, Wail S. **Heterocycles from nitrile oxides. II. 1,2,4-Oxadiazin-6-ones.** *Journal of Heterocyclic Chemistry* (1984), *21*, 455-9.
- 24) Sabri, Salim S.; **El-Abadelah, Mustafa M**; Tashtoush, Hasan I.; Duddeck, Helmut. **Carbon-13 NMR studies on some quinoxaline amino esters and their N-oxides.** *Heterocycles* (1986), *24*, 3169-80.
- 25) Sabri, Salim S.; **El-Abadelah, Mustafa M**; Yasin, Hani A. **Synthesis and spectral properties of some N-(2-benzimidazolyl)- α -amino esters and their N-oxides.** *Journal of Heterocyclic Chemistry* (1987), *24*, 165-9.
- 26) Sabri, Salim S.; **El-Abadelah, Mustafa M**; Al-Bitar, Bassam A. **Synthesis and spectroscopic studies on some new substituted 2-quinoxalinecarboxamides and their N-oxides.** *Heterocycles* (1987), *26*, 699-711.
- 27) Hussein, Ahmad Q.; **El-Abadelah, Mustafa M**; Hodali, Hamdallah A.; Kamal, Marwan R.; Aouf, Mohammed M. **Heterocycles from nitrile oxides. Part IV. 1,2,4,5-Oxatriazines.** *Heterocycles* (1987), *26*, 2199-207.

- 28) **El-Abadelah, Mustafa M**; Hussein, Ahmad Q.; Kamal, Marwan R.; Al-Adhami, Khaled H. **Heterocycles from nitrile imines. Part I. 1,2,3,4-Tetrahydro-1,2,4,5-tetrazines.** *Heterocycles* (1988), 27, 917-24.
- 29) Hussein, Ahmad Q.; **El-Abadelah, Mustafa M**; Al-Adhami, Khalid; Abushamleh, Ahmad S. **Heterocycles from nitrile imines. Part II. Synthesis and ring-chain tautomerism of 1,2,3,4-tetrahydro-s-tetrazines.** *Heterocycles* (1989), 29, 1163-70.
- 30) **El-Abadelah, Mustafa M**; Hussein, Ahmad Q.; Awadallah, Adel M. **Heterocycles from nitrile oxides. Part V. 4-Amino- \square^2 -1,2,4-oxadiazolines.** *Heterocycles* (1989), 29, 1957-64.
- 31) Saleh, Sadiq A.; **El-Abadelah, Mustafa M.** **Syntheses and chiroptical properties of some new N-(5-benzofurazanoyl)-L- α -amino acids and esters.** *Heterocycles* (1989), 29, 1355-68.
- 32) **El-Abadelah, M. M.**; Hussein, A. Q.; Abushamleh, A. S. **Substituent effect on ring-chain tautomerism of 1,2,3,4-tetrahydro-s-tetrazines.** *Journal fuer Praktische Chemie* (Leipzig) (1991), 333, 61-5.
- 33) **El-Abadelah, Mustafa M**; Hussein, Ahmad Q.; Saadeh, Haythem A. **Heterocycles from nitrile imines. Part III. Substituent effect on ring-chain tautomerism of 1,2,3,4-tetrahydro-s-tetrazines.** *Heterocycles* (1991), 32, 1063-79.
- 34) **El-Abadelah, M. M.**; Nazer, M. Z.; Hussein, A. Q.; Awadallah, A. M.; Rademacher, P.; Woydt, M. **Ring transformations of heterocycles. Part 1. Transformation of 4-amino- \square^2 -1,2,4-oxadiazolines into 1,3,4-oxadiazoles.** *Journal of Heterocyclic Chemistry* (1991), 28, 1229-34.
- 35) **El-Abadelah, Mustafa M**; Hussein, Ahmad Q.; Thaher, Bassam A. **Heterocycles from nitrile imines. Part IV. Chiral 4,5-dihydro-1,2,4-triazin-6-ones.** *Heterocycles* (1991), 32, 1879-95.
- 36) **El-Abadelah, Mustafa M**; Hussein, Ahmad Q.; Nazer, Musa Z.; Musa, Osama M.; Rademacher, Paul; Bandmann, Heinz. **Ring transformations of heterocycles. 2. Ring**

contraction of 5,6-dihydro-4H-1,2,4,5-oxatriazines into 1H-1,2,4-triazoles. *Heterocycles* (1993), 36, 455-72.

37) Boese, R.; **El-Abadelah, Mustafa M**; Hussein, A. Q.; Abushamleh, A. S. **Crystal structural determination of ring-chain tautomers of 1,2,3,4-tetrahydro-s-tetrazines.** *Journal of Heterocyclic Chemistry* (1994), 31, 505-7.

38) Hussein, Ahmad Q.; **El-Abadelah, Mustafa M**; Nazer, Musa Z.; Awadallah, Adel M.; Rademacher, Paul; Bandmann, Heinz. **Ring transformation of heterocycles: Part 3. A conversion of 4-amino- \square^2 -1,2,4-oxadiazolines into 2-arylamino-1,3,4-thiadiazoles and oxanalog.** *Heterocycles* (1994), 38, 981-90.

39) Hussein, A. Q.; **El-Abadelah, Mustafa M**; Ferwanah, A. S. **Heterocycles from nitrile imines. Part V. 6-Imino-4,5-dihydro-1,2,4-triazines.** *Dirasat - University of Jordan, Series B: Pure and Applied Sciences* (1994), 21B, 71-8.

40) **El-Abadelah, Mustafa M**; Nazer, Musa Z.; El-Abadla, Naser S.; Meier, Herbert. **6-Fluoro-7-(1-piperazinyl)quinoxaline 1,4-dioxides. Part I. 2-(N-2-hydroxyalkylcarbamoyl) derivatives.** *Heterocycles* (1995), 41, 2203-19.

41) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Abu Zarga, Musa H.; Abdel-Jalil, Raid J. **Substituted benzimidazoles. Part I. Synthesis and properties of some 2-aryl-5-fluoro-6-(4-methyl-1-piperazinyl)-1H-benzimidazoles.** *Heterocycles* (1995), 41, 2713-28.

42) **El-Abadelah, Mustafa M**; Nazer, Musa Z.; El-Abadlah, Naser S.; Meier, Herbert. **Synthesis of methyl 4-amino-1-aryl-1,4,5,6-tetrahydro-6-oxo-1,2,4-triazine-3-carboxylates.** *Journal fuer Praktische Chemie/Chemiker-Zeitung* (1997), 339, 90-91.

43) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Al-Ashqar, Haneen A. **Thienopyridone antibacterials. Part I. A synthesis of some 7-alkyl-2-chloro-1,4-dihydro-4-oxothieno[2,3-b]pyridine-5-carboxylic acids.** *Heterocycles* (1997), 45, 255-264.

- 44) **El-Abadelah, Mustafa M**; Kamal, Marwan R.; Tokan, Wajdi M.; Jarrar, Shuaa O. **Synthesis and properties of 1-aryl-6-chloro-1,4-dihydro-4-oxothieno[2,3-c]pyridazine-3-carboxylic acids.** *Journal fuer Praktische Chemie/Chemiker-Zeitung* (1997), 339, 284-287.
- 45) **El-Abadelah, Mustafa M**; Nazer, Musa Z.; Sabri, Salim S.; Khalil, Salim M.; Voelter, Wolfgang; Geiger, Marcela. **Synthesis and chiroptical properties of some N-(2-chloro-7-cyclopropyl-4,7-dihydro-4-oxo-thieno[2,3-b]pyridine-5-carbonyl)-L- α -amino esters.** *Zeitschrift fuer Naturforschung, B: Chemical Sciences* (1997), 52, 419-426.
- 46) **El-Abadelah, M. M.**; Saleh, S. A.; Awadallah, A. M. **4,5-Dihydro-1,2,4-triazin-6-ones condensed with heterocycles. Part 1: Synthesis and spectral properties of chiral 4,5-dihydro-6-oxo-1,2,4-triazino[4,5-b]-1,2,3,4-tetrahydro- β -carboline.** *Asian Journal of Chemistry* (1997), 9, 474-478.
- 47) Kamal, Marwan R.; Al-Taweel, Samir A.; **El-Abadelah, Mustafa M**; Abu Ajaj, Khalid M.. **Synthesis of α -thiophene oligomers via organotin compounds.** *Phosphorus, Sulfur and Silicon and the Related Elements* (1997), 126, 65-74.
- 48) **El-Abadelah, Mustafa M**; Nazer, Musa Z.; Okasha, Shadia F.; Calas, Michele; Bompart, Jacques; Mion, Pierre. **Thienopyridinone antibacterials: synthesis and antibacterial activity of some 7-aryl-2-chloro-4,7-dihydro-4-oxothieno[2,3-b]pyridine-5-carboxylic acids.** *European Journal of Medicinal Chemistry* (1998), 33, 33-42.
- 49) **Mustafa M. EL-Abadelah**, Salim S. Sabri, Haneen A. AL-Ashqar, Pierre Mion, Jacques Bompart and Michele Calas. **Thienopyridinone Antibacterials. Part II. Synthesis And Antibacterial Activity of Some 2-Chloro-7- Cyclopropyl-4,7- Dihydro-4-oxothieno[2,3-b] pyridine-5-carboxylic Acids.** *Phosphorus, Sulfur and Silicon and the Related Elements*, (1998), 134/135, 21-29.
- 50) Kamal, Marwan R.; **El-Abadelah, Mustafa M**; Mohammad, Amer A. **Substituted benzimidazoles. Part 2. Synthesis and properties of 2-aryl-1-hydroxy-5-(2-thienyl)benzimidazole 3-oxides.** *Heterocycles* (1999), 50, 819-832.

51) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Khanfar, Monther A.; Voelter, Wolfgang; Maichle-Moessmer, Cacilia. **X-ray structure analysis of iso-Sildenafil (iso-Viagra)**. *Z. Naturforsch.* (1999), *54b*, 1323-1326.

52) Voelter, Wolfgang; **El-Abadelah, Mustafa M**; Sabri, Salim S.; Khanfar, Monther A. **Synthesis and properties of Biagra. A 5-(2,3-dihydro-7-benzofuryl) analog of Viagra**. *Z. Naturforsch.* (1999), *54b*, 1469-1473.

53) Voelter, Wolfgang; Maichle-Moessmer, Cacilia; Khanfar, Monther A.; **El-Abadelah, Mustafa M**; Sabri, Salim S. **X-ray structure analysis of substituted 5-(2,3-dihydro-7-benzofuryl)-1-methylpyrazolo[4,3-*d*]pyrimidin-7-one (biagra)**. *Z. Naturforsch.* (1999), *54b*, 1602-1605.

54) **El-Abadelah, M. M.**; Nazer, M. Z.; El-Abadla, N. S.; Awadallah, A. M. **Synthesis and properties of some new 5-fluoro-6-(heterocyclyl)benzofuroxans**. *Asian Journal of Chemistry* (1999), *11*, 1463-1468.

55) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Al-Ashqar, Haneen A.; Mion, Pierre; Bompart, Jacques; Calas, Michele. **Thienopyridinone antibacterials. Part II. Synthesis and antibacterial activity of some 2-chloro-7-cyclopropyl-4,7-dihydro-4-oxothieno[2,3-*b*]pyridine-5-carboxylic acids**. *Phosphorus, Sulfur and Silicon and the Related Elements* (1998), *134/135*, 21-29.

56) Abushamleh, Ahmad S.; **El-Abadelah, Mustafa M**; Moessmer, Cacilia M. **Transition metal complexes of derivatized chiral dihydro-1,2,4-triazin-6-ones. Part I. Nickel(II) complex of (*D*)-3-acetyl-5-benzyl-1-phenyl-4,5-dihydro-1,2,4-triazin-6-one oxime. An instance of a carbon-carbon coupling reaction**. *Heterocycles* (2000), *53*, 1155-1165.

57) Abushamleh, Ahmad S.; **El-Abadelah, Mustafa M**; Moessmer, Cacilia M. **Synthesis and structural characterization of palladium(II) complex with (*L*)-3-acetyl-5-benzyl-1-phenyl-4,5-dihydro-1,2,4-triazin-6-one oxime. Part II**. *Heterocycles* (2000), *53*, 1737-1744.

- 58) Abdel-Jalil, Raid J.; Al-Qawasmeh, Raed A.; Voelter, Wolfgang; Heeg, Peter; **El-Abadelah, Mustafa M**; Sabri, Salim S. **Synthesis and Properties of Some 2,3-Disubstituted 6-Fluoro-7-(4-methyl-1-piperazinyl)quinoxalines.** *Journal of Heterocyclic Chemistry* (2000), 37, 1273-1275.
- 59) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Khanfar, Monther A.; Voelter, Wolfgang; Abdel-Jalil, Raid J.; Maichle-Moessmer, Cacilia; Al-Abed, Yousef. **Synthesis and properties of α -thiagra. A substituted 5-(2-thienyl)pyrazolo-[4,3-*d*]pyrimidin-7-one bioisostere of viagra.** *Heterocycles* (2000), 53, 2643-2652.
- 60) Abushamleh, Ahmad S.; **El-Abadelah, Mustafa M**; Voelter, Wolfgang. **Transition metal complexes of derivatized chiral dihydro-1,2,4-triazin-6-ones. part III. X-ray crystal structure analysis of N,N'-bis[(1-phenyl-5-isopropyl-4,5-dihydro-6-oxo-1,2,4-triazin-3-yl)ethylidene]propane-1,3-diamine nickel(II).** *Z. Naturforsch.* (2000), 55b, 1074-1078.
- 61) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Khanfar, Monther A.; Voelter, Wolfgang; Maichle-Moessmer, Cacilia. **X-ray crystal structure analysis of substituted 5-(2,3-dihydro-7-benzofuryl)-2-methylpyrazolo[4,3-*d*]pyrimidin-7-one (iso-Biagra).** *Z. Naturforsch.* (2000), 55b, 1079-1082.
- 62) Abdel-Jalil, Raid; Al-Abed, Yousef; **El-Abadelah, Mustafa M**; Khanfar, Monther; Sabri, Salim S.; Voelter, Wolfgang. **Phosphodiesterase-inhibiting pyrazolopyrimidinone derivatives conjugated to thiophene moieties or benzo [fused] 5-membered heterocycles for treatment of erectile dysfunction and other cardiovascular disorders.** *PCT Int. Appl.* (2001), 37 pp.
- 63) Abushamleh, Ahmad S.; **El-Abadelah, Mustafa M**. **Synthesis and characterization of the nickel and cobalt complexes of new BF_2^+ bridged, 1,2-benzoquinone bis (α -dioxime) macrocycles.** *Journal of the Chemical Society of Pakistan* (2000), 22, 293-298.
- 64) Badwan, Adnan Ali H.; **El Abadelah, Mustafa M. M**. **Preparation of sildenafil analogs for treatment of erectile dysfunction.** *U.S. Pat. Appl.*, (2001), 10 pp.

- 65) Abu Safieh, Kayed A.; **El-Abadelah, Mustafa M**; Sabri, Salim S.; Abu Zarga, Musa H.; Voelter, Wolfgang; Moessmer, Cacilia M. **Synthesis of pyrazole-fused azepino[5,4,3-*cd*]indoles.** *Journal of Heterocyclic Chemistry* (2001), 38, 623-628.
- 66) Saeed, Muhammad; Abdel-Jalil, Raid J.; Voelter, Wolfgang; **El-Abadelah, Mustafa M.** **An expeditious synthesis of optically pure 1,4,5,6-tetrahydro-*as*-triazines, fused to the carbohydrate skeleton.** *Chemistry Letters* (2001), 660-661.
- 67) Al-Bojuk, Nader R.; **El-Abadelah, Mustafa M**; Sabri, Salim S.; Michel, Alain; Voelter, Wolfgang; M.-Moessmer, Cacilia; Al-Abed, Yousef. **Synthesis and vasorelaxant potency of monagra. A chiral 5-(2-methyl-2,3-dihydro-7-benzofuryl)pyrazolopyrimidone analog of Viagra.** *Heterocycles* (2001), 55, 1789-1803.
- 68) Fasfous, Ismail I.; **El-Abadelah, Mustafa M**; Sabri, Salim S. **Pictet-Spengler synthesis of pyrazole-fused β -carbolines.** *Journal of Heterocyclic Chemistry* (2002), 39, 225-227.
- 69) Abushamleh, A. S.; **El-Abadelah, Mustafa M** ; Voelter, Wolfgang. **Chiroptical properties of some (*S*)-*N,N'*-bis[(1-phenyl-5-alkyl-4,5-dihydro-6-oxo-1,2,4-triazin-3-yl)ethylidene] propane-1,3-diamine nickel(II).** *Journal of the Chemical Society of Pakistan* (2002), 24, 31-35.
- 70) Moosa, Basem A.; Abu Safieh, Kayed A.; **El-Abadelah, Mustafa M.** **Synthesis of some thiophene-fused azepino[5,4,3 - *cd*]indoles.** *Heterocycle* (2002), 57, 1831-1840.
- 71) Abu Thaher, Bassam A.; Zahra, Jalal A.; **El-Abadelah, Mustafa M.** **Facile synthesis of model 1,4-dihydro-1*H*-1,3,4-benzotriazepin-5-ones.** *Journal of Heterocyclic Chemistry* (2002), 39, 901-904.
- 72) **El-Abadelah, Mustafa M**; Sabri, Salim S.; Khanfar, Monther A.; Yasin, Hani A.; Voelter, Wolfgang. **Synthesis and properties of isoViagra. A 2-methyl-2*H*-pyrazolo[4,3-*d*]pyrimidin-7-one isomer of Viagra.** *Journal of Heterocyclic Chemistry* (2002), 39, 1055-1059.

- 73) Abu-Safieh, Kayed A.; **El-Abadelah, Mustafa M**; Sabri, Salim S.; Voelter, Wolfgang; Moessmer, Acilia M.; Stroebel, Markus. **Bischler-Napieralski synthesis of some new pyrazole-fused β -carboline**s. *Z. Naturforsch.* (2002), *57b*, 1327-1332.
- 74) Zahra, Jalal A.; Abu Thaher, Bassam A.; **El-Abadelah, Mustafa M**; Klinga, Martti. **Tautomerism and X-ray structure of dihydro-5H-1,3,4-benzotriazepin-5-ones**. *Heterocycles* (2002), *57*, 2365-2371.
- 75) **El-Abadelah, Mustafa M**; Abushamleh, Ahmad S.; Moessmer, Caecilia M.; Voelter, Wolfgang. **Transition metal complexes of derivatized chiral dihydro-1,2,4-triazin-6-ones, part IV. Synthesis and structural characterization of a copper(II) complex of (L)-3-acetyl-5-benzyl-1-phenyl-4,5-dihydro-1,2,4-triazin-6-one oxime**. *Z. Naturforsch.* (2002), *57b*, 547-551.
- 76) Al-Khashashneh, Adel M.; **El-Abadelah, Mustafa M**; Boese, Roland. **New synthesis of model dihydroazepine-fused indolo[2,3-c]quinolines**. *Heterocycles* (2003), *60*, 73-87.
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