CURRICULUM VITAE

Hussein I. El-Subbagh, Ph.D.

http://hussein-i-el-subbagh-phd.webs.com/
http://scholar.google.com.eg/citations?user=8Vsp-lAAAAAJ&hl=en&oi=ao
www.scopus.com/authid/detail.url?authorId=7004304572

PERSONAL:

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Place of birth: Mansoura, Egypt.
Marital status: Married, three children.

EDUCATION:

Ph.D. (Medicinal Chemistry), 1988:

University of Rhode Island, RI, USA and University of Mansoura, Mansoura, Egypt.
Dissertation: "Synthesis and Elucidation of Structure of Certain Nonantimonial Nitrogenous Compounds to be Evaluated as Schistosomicidal Agents".

M.Sc. (Medicinal Chemistry), 1984:

University of Mansoura, Mansoura, Egypt.
Dissertation: "Synthesis and Elucidation of Structure of Some Thiaxanthone Analogous as Potential Schistosomicidal Agents".

B.Sc. (Pharmaceutical Sciences), 1978:

Faculty of Pharmacy, University of Mansoura, Mansoura, Egypt. (Excellent, High Honor).

EMPLOYMENT AND RESPONSIBILITIES:

2014 - present:
Chairman and Professor, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ.of Mansoura, Mansoura, Egypt.

2013-2014:
Vice Dean for Community and Environmental Affairs and Professor of Pharmaceutical Chemistry, College of Pharmaceutical Sciences & Pharmaceutical Industries, Future University, Cairo, Egypt.

2012-2013
Chairman and Professor of Pharmaceutical Chemistry, College of Pharmaceutical Sciences & Pharmaceutical Industries, Future University, Cairo, Egypt.

2011-2012:
Professor, Dept. of Pharmaceutical Chemistry, College of Pharmaceutical Sciences & Pharmaceutical Industries, Future University, Cairo, Egypt.

1998 - 2011:
Professor, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt and College of Pharmacy, King Saud Univ., Riyadh, Saudi Arabia.

1996:
Alexander von Humboldt-Scholar, Dept. of Pharmaceutical Chemistry, College of Pharmacy, Univ. of Bonn, Bonn, Germany.

1994 - 1998:
Associate Professor, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt and College of Pharmacy, King Saud Univ., Riyadh, Saudi Arabia

1993 - 1998:
Associate Professor, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt.

1988 - 1993:
Assistant Professor, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt.

1989 - 1991:
Sabbatical postdoctorate fellowship, Dept. of Medicinal Chemistry, College of Pharmacy, Univ. of Rhode Island, USA. "Synthesis of Chiral 1',2'-Seconucleosides and Nucleotide Phosphonate Isosteres as Antiviral Agents".

1987:
Research fellow, Dept. of Medicinal Chemistry, College of Pharmacy, Univ. of Rhode Island, USA. "Synthesis of Chiral Acyclonucleosides as Antiviral Agents".

1985 - 1987:
Ph.D. graduate student, Dept. of Medicinal Chemistry, College of Pharmacy, Univ. of Rhode Island, USA. Supported by the Egyptian channel system of mutual exchange of scientific research.

1984:
Research Associate, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt. Funded by the Supreme Council of the Egyptian Universities. "Synthesis of Potential Nitrothiaxanthone Analogues as Schistosomicidal Agents".

1978 - 1983:
Graduate research and teaching associate, Dept. of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt.

TEACHING EXPERIENCE:

Medicinal and Organic Chemistry courses, for undergraduate and graduate students.

A. Undergraduate:

1. **Pharmaceutical Medicinal Chemistry:** A standard course offered to the third and fourth year class, Faculty of Pharmacy. Emphasis is on uses, syntheses, correlation of properties, structure and biological activity for compounds of medicinal and pharmaceutical importance.
2. **Pharmacopeial Standards of Pharmaceutical Compounds:** A standard course offered to the third year class, which deals with official pharmacopeial limits and standards for drug evaluation, including methods of preparation, quantitative and qualitative assays.
3. **Pharmaceutical Analysis:** A laboratory course for the quantitative and qualitative assays for drugs and its impurities.
4. **Organic Chemistry:** A basic course offered to the first and second year class, which covers functional group, heterocyclic and carbohydrate chemistry.
5. **Spectrometric Identification of Pharmaceutical Compounds:** The course deals with the principles and application of nuclear magnetic resonance (NMR), mass (MS) and infra red (IR) spectrometry in the structural elucidation of organic compounds.

B. Graduate:

1. **Spectroscopic Methods of Identification:** A course offered to graduate and drug analysis diploma students emphasizing application of instrumental methods used in structural elucidations, including IR, UV, -mass spectrometry, ^{13}C and two dimensional NMR (COSY, HSQC ... etc.) spectroscopy.
2. **Modern Synthetic Reactions:** A course designed to discuss some new reactions and mechanisms in organic chemistry with special emphasis on reactions related to the synthesis of pharmaceutical compounds.
3. **Pharmaceutical Literature:** A course designed to familiarize the students with the current pharmaceutical and medical literature and their use.
4. **Structural Elucidation Techniques in Medicinal Chemistry:** The course covers the structural elucidative approaches used to characterize medicinal agents, their receptor binding characteristics and their metabolism. Specific examples from the current pharmaceutical literature are chosen to illustrate the use of various spectroscopic and spectrometric procedures as well as the associated hyphenated techniques to achieve these objectives. X ray crystallographic and diffraction studies are used to add more to student's knowledge on the physicochemical properties of medicinal agents and the ways drugs interact with cellular macromolecules.
5. **Chemistry of Medicinal Heterocycles:** The course deals with the modern aspects of the chemistry of medicinally important heterocycles and the correlation of the physical and chemical properties of these pharmacophores to drug activity. In addition, the course covers the chemistry of nucleosides and their functional groups transformations involving both the heterocyclic bases and the sugar tails.

RESEARCH EXPERIENCE:

Experience in synthetic and medicinal organic chemistry; in the areas of nucleosides, nucleotide phosphonates, and heterocyclic compounds. Familiarity with modern techniques; including various chromatographic separation methods; column (gravity and high pressure), chromatotron etc... Extensive use and interpretation of instrumental data, including mass spectrometry, IR, UV, ^{1}H, ^{13}C and two dimensional NMR spectroscopy.

SUPERVISION OF DISSERTATIONS:

1. Mohamed Amir Sabry Mosa, M.Sc. (in progress), Mansoura University, Mansoura, Egypt. "Synthesis and Biological Evaluation of Some New Quinazoline-4(3H)-one Analogues".
2. Selwan M. H. El-Sayed, Ph.D. (in progress), Mansoura University, Mansoura, Egypt. "Design and Synthesis of New Imidazole Derivatives of Potential Antitumor Activity".
3. Mennatallah A. Saad, M.Sc. (in progress), Ain Shams University, Cairo, Egypt. "Design and Synthesis of Novel Thiazole Derivatives as Potential Targeted Anticancer Agents".
4. Yomna I. H. El-Gazzar, M.Sc. (in progress), Cairo University, Cairo, Egypt. "Nonclassical Antifolates: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New Quinazolin-4-one Analogues as DHFR Inhibitors".
5. Hazem A. Ghabbour, Ph.D. (2015), King Saud University, Riyadh, Saudi Arabia. “Synthesis and Biological Evaluation of New Thiazole Derivatives as CNS Active Compounds”
6. Huda A. Al-Salem, Ph.D. (2012), King Saud University, Riyadh, Saudi Arabia. “Synthesis and Anticonvulsant Evaluation of Some New 4(3*H*)-quinazolinone Analogues.
7. Sarah T. Al-Rashood, Ph.D. (2011), King Saud University, Riyadh, Saudi Arabia. “Synthesis and Biological Evaluation of Some New Thiazolodiazepine Analogues as CNS Active Agents.”
8. Fatmah A. Al-Omary, Ph.D. (2009), King Saud University, Riyadh, Saudi Arabia. “Non-classical Antifolate Compounds as Dihydrofolate Reductase Inhibitors: Synthesis and Biological Evaluation.”
9. Sarah T. Al-Rashood, M.Sc. (2005), King Saud University, Riyadh, Saudi Arabia. “Synthesis and Evaluation of Some New Compounds of 2-Methylthio-6-amino-4-(3H)-quinazolines as Dihydrofolate Reductase Inhibitors.”
10. Huda A. Al-Salem, M.Sc. (2002), King Saud University, Riyadh, Saudi Arabia. “Design, Synthesis and Investigation of Brain Delivery Model for Anticancer Compounds.”
11. Suhair M. Abu-Zaid, M.Sc. (1999), King Saud University, Riyadh, Saudi Arabia. “Synthesis and Biological Evaluation of Certain α,β-Unsaturated Ketones and their Corresponding Fused Pyridines as Antiviral, Antitumor Agents”.
12. Sahar M. Badr, Ph.D. (1996), University of Mansoura, Mansoura, Egypt. “Design, Synthesis and Structure Elucidation of Sulphur Containing Heterocycles of Biological Interest”.

EXAMINER OF DISSERTATIONS:

1. Synthesis and Evaluation of Anticancer Activity of Novel Pyrazole Derivatives. Marwa Fawzy Mohamed Harras, Ph.D. (2015), Faculty of Pharmacy, Alazhar University, Cairo, Egypt.
2. Design and Synthesis of Some Furan Derivatives and its Isosteres of Anticipated Antitumor Activity. Shaimaa Mohamed AbdelRahman, Ph.D. (2014), Faculty of Pharmacy, Cairo University, Cairo, Egypt.
3. Molecular Modeling, Synthesis and Biological Evaluation of Certain Quinazoline Derivatives with Expected Ani-inflammatory Activity. Doaa Boshra Abdulfattah Farag, **Ph.D.** (2014), Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.
4. Design and Synthesis of Certain Pyrazole Derivatives as Potential Anti-inflammatory Agents. Maged Ahmed El-Sawy, **M.Sc.** (2014), Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.
5. Mining Zinc Database to Discover Potential Phosphodiesterase 9 Inhibitors Using Structure based Drug Design approach. Engi Atef Mahmoud Hassan, **M.Sc.** (2014), Faculty of Pharmacy and Biotechnology, German University in Cairo, Egypt.
6. A Green One Pot Approach to the Synthesis of Novel Spirooxindole Derivatives with Potential Anticancer Activity. Lobna Mohamed Tarek Elwarraky, **M.Sc.** (2014), Faculty of Pharmacy and Biotechnology, German University in Cairo, Egypt.
7. Synthesis and computer aided drug design of certain derivatives of heterocyclic compounds for biological testing. Ahmed Ali Al-Karmellawy, **M.Sc.** (2013), Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt.
8. Computer-Based Design and Synthesis of Lapatinib Analogues as Potential Anticancer Agents. Maiada Mohsen Mohamed, **M.Sc.** (2012), Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.
9. Synthesis and Studies of Some Novel Nitrogen and Oxygen Based Heterocycles. Vipul Maganbhai Buha, **Ph.D.** (2012), College of Science, Gujarat University, Gujarat, India.
10. Synthesis of Some new Heterocyclic Compounds Based on Pyrazole Nucleus. Hesah A. Al-Talasi, **Ph.D.** (2011), College of Science, King Saud University, Riyadh, Saudi Arabia.
11. Isolation and Chemical Structure Elucidation of Hepatoprotective Constituents from Plants Used in Traditional Medicine in Saudi Arabia. Saleh I. Al-Qasoumi, **Ph.D.** (2007), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
12. Pharmacological Activity Driven Synthesis of Organic Compounds. Maimona Rasheed, **Ph.D.** (2003), College of Scince, University of Karachi, Karachi, Pakistan.
13. Studies on Monocyclic β-Lactams. Fatmah A. Al-Omary, **M.Sc.** (2000), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

MEMBERSHIPS:

1. The American Chemical Society since 1985.
2. The Egyptian Pharmaceutical Society since 1978.
3. The Egyptian Syndicate of Pharmacists since 1978.

EDITORIAL & ADVISORY BOARDS:

1. The Managing Editor, “Future Journal of Pharmaceutical Sciences”, since 2015.
2. EACEA-Tempus, European Commission, List of expertise, since 2012.
3. The Editorial Board, “World Journal of Anesthesiology”, since 2011.
4. The Editorial Board, “International Journal of Medicinal Chemistry”, since 2009.
5. The Advisory Board, “Saudi Pharmaceutical Journal”, since 1999.

AWARDS:

1. State Prize for Scientific Distinction in Medical Sciences, the Academy of Scientific Research and Technology, Cairo, Egypt, 2014.
2. FUE award for Outstanding Research- Future University in Egypt, Cairo, Egypt, 2012.
3. Waleed Kayali Prize for Scientific Research- Saudi Pharmaceutical Society, Riyadh, Saudi Arabia, 2008.
4. State Prize for Encouragement of Scientific Research- in Medical Sciences, the Academy of Scientific Research and Technology, Cairo, Egypt, 1997.
5. Alexander von Humboldt Scholarship, Germany, 1996.
6. Shoman Award for the Young Arab Scientists in Chemistry - Amman, Jordan, 1994.
7. Postdoctoral fellowship, University of Rhode Island, College of Pharmacy, USA, 1989-1991.

FUNDED RESEARCH PROJECTS:

1. "Nonclassical Antifolates: Synthesis, Biological Evaluation and Molecular Modeling Study of Some Quinazolin-4-one Analogues as DHFR Inhibitors." Hussein I. Elsubbagh, Hanan Hanna, Ghada S. Hassan, Shahenda M. El-Messery, Youmna Ibrahim. **Science and Technology Development Fund** (STDF), 2014, Cairo, Egypt.
2. "Synthesis, Biological Evaluation and Molecular Modeling Studies of Novel Arylsulfonyl Ureas as Antitumor Agents."A. M. Al-Obaid, H. I. El-Subbagh, A. A.-M. Abdel-Aziz. **King Abdulaziz City for Science & Technology**; 2008, Riyadh, Saudi Arabia.
3. "Synthesis, Biological evaluation, and In-vitro Metabolic Studies of Some New Thiazolodiazepine Analogues as CNS Active Agents." A. A. Kadi, A. M. Al-Obaid, H. I. El-Subbagh, O. A. Al-Shabanah. **King Abdulaziz City for Science & Technology**; 2008, Riyadh, Saudi Arabia.
4. "Synthesis and Investigation of Some Amantadine Derivatives as Hepatic Delivery System to Enhance its Activity against HCV." T.A. Mohamed, A.M. Al-Obaid, H.I. El-Subbagh, I.M. Darwesh. **College of Pharmacy**, **Research Center**, **King Saud University**, 2006, Riyadh, Saudi Arabia.
5. "An Unusual and alternative route for synthesis of chiral 4-substituted N-arylsulfonyl-2-imidazolidinones and their antitumor activity: Molecular modeling study." H.I. El-Subbagh, A.M. Al-Obaid, T.A. Mohamed, A.A-M. Abdulaziz. **College of Pharmacy**, **Research Center**, **King Saud University**, 2006, Riyadh, Saudi Arabia.
6. "Synthesis and Anticovulsant Activity of Certain 2-thieno-4(3*H*)-quinazolinones." O.A. Al-Deeb, H.I. El-Subbagh, O.A. Al-Shabanah, S.G. Abdelhamide. **King Abdulaziz City for Science & Technology**; 2006, Riyadh, Saudi Arabia.
7. "Synthesis of potential drugs for thromboembolic heart diseases." K.M. Youssef, H.I. El-Subbagh, M.A. Al-Omar, A.S. Al-Tuwaijeri, A.M. Gader. **King Abdulaziz City for Science & Technology**; 2006, Riyadh, Saudi Arabia.
8. "Development of oral colon targeted drug delivery systems using prodrug technology." A.H. El-Kamel, H.I. El-Subbagh, A.J. Fatany. **Deanship of Scientific Research**; **King Saud University**. 2005, Riyadh, Saudi Arabia.
9. "Analytical investigations of a new thiazolo[3,2-*a*]diazepine analogue as an ultra-short acting hypnotic." A.A. Al-Majed, M.M. Hifnawy H.I. El-Subbagh; **College of Pharmacy, Research Center, King Saud University**, 2005, Riyadh, Saudi Arabia.
10. "Chemical study and the synthesis of new derivatives of pheromones to be tested as anti-*Rhynchophorus ferrugineus* in Saudi Arabia." O.A. Al-Deeb, H.I. El-Subbagh, M.M. Hifnawy. **Deanship of Scientific Research**; **King Saud University**. 2005, Riyadh, Saudi Arabia.
11. "Synthesis, binding affinity to estrogen receptor, biological and antitumor activities of various novel modified estrogens." O.M. Aboulwafa, K.M. Youssef, H.I. El-Subbagh, O.A. Al-Deeb, A.J. Fatany, A.T. El-Alfy. **King Abdulaziz City for Science & Technology**; 2004, Riyadh, Saudi Arabia.
12. "Synthesis and Antitumor Activity of Certain 2-thieno-4(3*H*)-quinazolinones." A.M. Al-Obaid, H.I. El-Subbagh, H.A. Al-Khamees, S.G. Abdelhamide. **King Abdulaziz City for Science & Technology**; 2004, Riyadh, Saudi Arabia.
13. "Substituted Quinazoline, 2. Synthesis and Antitumor Activity of Certain 2-Aryl or Alkyl-thio-4(3*H*)-quinazoline Derivatives." A.M. Al-Obaid, H.I. El-Subbagh, A.A. Khalil, S.G. Abdelhamide; **College of Pharmacy, Research Center, King Saud University**, 2001,

Riyadh, Saudi Arabia.

14. "Synthesis and Local Anaesthetic Activity of Some New N-Substituted Methyl Anthranilates." A.M. El-Obaid, H.I. El-Subbagh; **College of Pharmacy, Research Center, King Saud University**, 2000, Riyadh, Saudi Arabia.
15. "Synthesis and Investigation of Novel Shelf-stable Brain-Specific MAO Inhibitors". A.M. Al-Obaid, H.I. El-Subbagh, H.H. Farag, A.A. Khalil, O.A. Al-Shabanah. **King Abdulaziz City for Science & Technology**; 2000, Riyadh, Saudi Arabia.
16. "Substituted Thiazoles, IV. Synthesis and Antitumor Activity of Certain Imidazo[2,1-*b*]-thiazole Analogs." A.M. El-Obaid, H.I. El-Subbagh, **College of Pharmacy, Research Center, King Saud University**, 1999, Riyadh, Saudi Arabia.
17. "Synthesis and Anticonvulsant Activity of Some 1-Substituted 2-oxo-pyrrolidine Derivatives" A.M. Al-Obaid, H.I. El-Subbagh, M.M. Elmazar, O.A. Alshabanah. **King Abdulaziz City for Science & Technology**; 1996, Riyadh, Saudi Arabia.
18. "Synthesis of Potential Nitrothiaxanthone Analogues as Schistosomicidal Agents." M.M. El-Kerdawy, A.A. El-Emam, H.I. El-Subbagh, M.M. Elmazar, **US Government and the Supreme Council of the Egyptian Universities**; 1984, Cairo, Egypt.

CONFERENCES:

1. **Substituted thiazoles VII.** Synthesis and antitumor activity of certain 2-(substitued-amino)-4-phenyl-thiazole analogues. Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A. M. Al-Omary, and Hussein I. El-Subbagh. ***The first National Conference University & Industry (The Role of the University in Economic Development),*** Mansoura University, Mansoura, Egypt, March 7th-9th 2015.

2. **Nonclassical antifolates, Part 3:** Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2-Heteroarylthio-quinazolin-4-ones. Fatmah A. M. Al-Omary, Ghada S. Hassan, Shahenda M. El-Messery, Mahmoud N. Nagi, El-Sayed E. Habib, and Hussein I. El-Subbagh. ***The first National Conference University & Industry (The Role of the University in Economic Development),*** Mansoura University, Mansoura, Egypt, March 7th-9th 2015.

3. **Nonclassical antifolates, Part 4.** 5-(2-Aminothiazol-4-yl)-4-phenyl-4H-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study. Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A.M. Al-Omary, Sarah T. Al-Rashood, Marwa I. Shabayek,Yasmin S. Abulfadl, El-Sayed E. Habib, Walid Fayad, Khaled M. Mohamed,Salwa M. El-Hallouty,Bassem S. El-Menshawi,Hussein I. El-Subbagh. ***The first National Conference University & Industry (The Role of the University in Economic Development),*** Mansoura University, Mansoura, Egypt, March 7th-9th 2015.

4. **Nonclassical antifolates, Part 5.** Benzodiazepine analogues as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling studyHussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Messery, Sarah T. Al-Rashood, Fatmah A.M. Al-Omary, Yasmin S. Abulfadl, Marwa I. Shabayek. ***The first National Conference University & Industry (The Role of the University in Economic Development),*** Mansoura University, Mansoura, Egypt, March 7th-9th 2015.

5. 2-(1,3,4-Thiadiazolyl-thio and 4-methylthiazolylthio)-quinazolin-4-ones as a new class of

DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study. Sarah T. Al-Rashood, Ghada S. Hassan, Shahenda M. El-Messery, Mahmoud N. Nagi, El-Sayed E. Habib, Fatmah A. M. Al-Omary, Hussein I. El-Subbagh. ***3rd FUE International Conference on Pharmaceutical Technologies (ICPS).*** Future University in Egypt, 9-11 Feb. 2015.

6. 5-(2-Aminothiazol-4-yl)-4-phenyl-4H-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: synthesis, biological evaluation and molecular modeling study Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A.M. Al-Omary, Sarah T. Al-Rashood, Marwa I. Shabayek,Yasmin S. Abulfadl, El-Sayed E. Habib, Walid Fayad, Khaled M. Mohamed,Salwa M. El-Hallouty,Bassem S. El-Menshawi,Hussein I. El-Subbagh. ***3rd FUE International Conference on Pharmaceutical Technologies (ICPS).*** Future University in Egypt, 9-11 Feb. 2015.

7. Synthesis and pharmacological evaluation of new curcumin analogues as antioxidant and antitumor agents: molecular modeling study. Said M. Bayomi, Hassan A. El-Kashef, Mahmoud B. El-Ashmawy, Magda N. A. Nasr, Magda A. El-Sherbeny, Naglaa I. Abdel-Aziz, Magda A.-A. El-Sayed, Ghada M. Suddek, Shahenda M. El-Messery, Mariam A. Ghaly. ***3rd FUE International Conference on Pharmaceutical Technologies (ICPS).*** Future University in Egypt, 9-11 Feb. 2015

8. **Nonclassical antifolates, Part 5.** Benzodiazepine analogues as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling studyHussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Messery, Sarah T. Al-Rashood, Fatmah A.M. Al-Omary, Yasmin S. Abulfadl, Marwa I. Shabayek. ***3rd FUE International Conference on Pharmaceutical Technologies (ICPS).*** Future University in Egypt, 9-11th Feb. 2015**.**

9. **Nonclassical antifolates, Part 4.** 5-(2-Aminothiazol-4-yl)-4-phenyl-4H-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study.Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A.M. Al-Omary, Sarah T. Al-Rashood, Marwa I. Shabayek,Yasmin S. Abulfadl, El-Sayed E. Habib, Walid Fayad, Khaled M. Mohamed,Salwa M. El-Hallouty,Bassem S. El-Menshawi,Hussein I. El-Subbagh. ***The 7th Brazilian Symposium On Medicinal Chemistry (Braz Med chem).*** Nov. 9-12 th, Campos do Jordao, Brazil, 2014**.**

10. **Nonclassical antifolates.** 5-(2-Aminothiazol-4-yl)-4-phenyl-4H-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study. Hussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Messery, Fatmah A.M. Al-Omary, Sarah T. Al-Rashood, Marwa I. Shabayek, Yasmin S. Abulfadl, El-Sayed E. Habib, , Walid Fayad, Bassem S. El-Menshawi, **World Congress of Pharmacy & Pharmaceutical Sciences, *73rd International Congress of FIP.*** Dublin, Ireland. 31 Aug. - 5 Sept. 2013.

11. Recent Development of New Ultra-short Acting Hypnotic “Thiazolodiazepine HIE-124”. Hussein I. El-Subbagh, ***New Trends in Drug Discovery Symposium; FUE International Conference on Pharmaceutical Sciences.*** Cairo International Conf. Center, Cairo, Egypt. 13-15 April 2013.

12. Nonclassical Antifolates: Quinazolinone Analogues as DHFR Inhibitors, Molecular Modeling Approach. Hussein I. El-Subbagh, ***New Trends in Drug Discovery Symposium;***

FUE International Conference on Pharmaceutical Sciences. Cairo International Conf. Center, Cairo, Egypt. 13-15 April 2013.

13. Nonclassical Antifolates, Part 3: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2-Heteroarylthio-quinazolin-4-ones. Hussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Mesery, Fatmah A. Al-Omary, Mahmoud N. Nagi, El-Sayed E. Habib. ***5th International Conference on Drug Discovery & Therapy***, Dubai, UAE. 18-21 Feb. 2013.

14. Nonclassical Antifolates, Part 3: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2-Heteroarylthio-quinazolin-4-ones. Hussein I. El-Subbagh, Ghada S. Hassan, Shahenda M. El-Mesery, Fatmah A. Al-Omary, Mahmoud N. Nagi, El-Sayed E. Habib. ***Humboldt Kolleg***, German University in Cairo, Egypt, 28 Sept.-1 Oct. 2012.

15. Synthesis, Biological Evaluation, and X-Ray Crystallography of Novel Arylsulfonyl Ureas as Antitumor Agents. Hussein I. El-Subbagh, Alaa A-M. Abdel-Aziz, Adel S. Al-Azab, Abdulrahman M. Al-Obaid. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

16. Recent developments on the ultra-short acting hypnotic activity of analogues derived from Ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE-124). Hussein I. El-Subbagh, Ghada S. Hassan, Kamal E. H. El-Taher, Adel S. Al-Azab, Alaa A.M. Abdelaziz, Khalid A. Al-Rashood, Mohamed M. Hefnawy. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

17. Synthesis and Anticonvulsant Activity of Some New Thiazolo[3,2-a][1,3]diazepine, Benzo[d]thiazolo[5,2-a][12,6]diazepine and Benzo[d]oxazolo[5,2-a][12,6]diazepine Analogues. Hussein I. El-Subbagh, Ghada S. Hassan, Adel S. El-Azab, Alaa A.-M. Abdel-Aziz, Abdulrahman M. Al-Obaid, Othman A. Al-Shabanah, and Mohamed M. Sayed-Ahmed. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

18. Synthesis and Biological Evaluation of Certain New Thiazolopyrimidine and Thiazoloquinazoline Analogues as Antitumour Agents. Fatmah A. Al-Omary, Ghada S. Hassan, Shahenda El-Mesery, Hussein I. El-Subbagh. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

19. Synthesis and Biological Evaluation of New Thiazole Derivatives as CNS Active Agents. Hazem A. Ghabbour, Adnan A. Kadi, Ghada S. Hassan, Kamal E. H. El-Taher, Hussein I. El-Subbagh. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

20. Synthesis and Anticonvulsant Evaluation of Some New 4(3*H*)-quinazolinone Analogues. Huda S. A. Al-Salem, Gehan H. Hegazy, Abdul-Rahman M. Al-Obaid, Kamal E. H. El-Taher, Hussein I. El-Subbagh. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

21. Synthesis and Biological evaluation of Some New Thiazolodiazepine Analogues as CNS Active Agents. Sarah T. A. Al-Rashood, Ghada S. Hassan, Kamal E. H. El-Taher, Hussein I. El-Subbagh. ***FUE International Conference on Pharmaceutical Technologies (ICPT),***

Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

22. Substituted-Thiazoles VI. Synthesis and Antitumor Activity of Certain 2- Substitued-aminothiazole Analogues. Shahenda M. El-Messery, Ghada S. Hassan, Fatmah A. M. Al-Omary, Hussein I. El-Subbagh. ***FUE International Conference on Pharmaceutical Technologies (ICPT),*** Intercontinental-City Star, Cairo, Egypt, February 6-9, 2012.

23. Application of Three Chromatographic Techniques in the Bioanalysis of a New Thiazolodiazepine Ultra-Short-Acting Hypnotic**.** Ehab A. Abourashed, Mohamed M. Hefnawy, Hussein I. El-Subbagh. ***The 46th Midwest/39th Great Lakes Joint Regional Meeting of the American Chemical Society,*** Saint Louis, Missouri, U.S.A. October 19-22, 2011.

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G) Translations:

1. Reviewing the translations of the submitted patents "**King Abdulaziz City for Science & Technology,** Riyadh Saudi Arabia**.**
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RESEARCH INTERESTS:

1. The application of modern methods and techniques for the development of drugs. Computer assisted molecular design in combination with synthetic expertise in heterocyclic and nucleoside chemistry would be used to develop chemotherapeutic drugs to combat cancer and viral diseases.
2. The development of a biochemical rationale for the preparation of antischistosomal drugs. Such an approach focuses on finding qualitative differences between mammalian and parasitic biochemical pathways and the synthesis of drugs which are selective inhibitors of parasitic enzymes.

3. The development of some of the biologically active antiviral (HIV, Hepatitis B and C), anticancer and antioxidant phytochemicals from natural sources.

CAREER OBJECTIVES:

1. To teach at the university level in many areas of specialty.
2. The establishment of a viable research program to help in the development of human and natural resources to prepare our own drugs.
3. To find suitable employment where I can put my expertise to practical use.
4. The application of my synthetic and analytical chemical knowledge in a practical field of medicine is an attractive objective to be fulfilled either locally or abroad.

Scopus preview

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Author ID: 7004304572

Documents: 95

Citations: 1506 total citations by **1136** documents

***h* Index: 21**

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Co-authors: 141

Subject area: Pharmacology, Toxicology and Pharmaceutics, Chemistry, Biochemistry,

Genetics and Molecular Biology

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