

CURRICULUM VITAE

Hussein I. El-Subbagh, Ph.D., D.Sc.

**Director of NMR facility, Faculty of Pharmacy,
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**PERSONAL:**

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Place of birth: Mansoura, Egypt.

Marital status: Married, three children.

EDUCATION:**D.Sc. (Medicinal Chemistry), 2016:**

University of Mansoura, Mansoura, Egypt.

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 Nonantimomial 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:**2017 - present:**

Director of NMR facility, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt.

2015 - present:

Emeritus Professor of Medicinal Chemistry, Faculty of Pharmacy, Univ. of Mansoura, Mansoura, Egypt.

2014 - 2015:

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 Nitrothioxanthone 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, ^1H , ^{13}C and two dimensional NMR spectroscopy.

SUPERVISION OF DISSERTATIONS:

1. [Mennatallah A. Saad](#), Ph.D. (in progress), Cairo University, Cairo, Egypt. "Synthesis, Biological Evaluation and Molecular Modeling Study of Some Novel Imidazo[2,1-*b*]thiazole Analogues".
2. [Yomna I. H. El-Gazzar](#), Ph.D. (in progress), Cairo University, Cairo, Egypt. "Study of Substituents Effect on the Antitumor Activity of Certain Quinazolinones: Synthesis and Biological Evaluation".
3. [Noura Hemdan](#), Ph.D. (in progress), Mansoura University, Mansoura, Egypt. "Some Applications of Chemometrics in Drug Analysis".
4. [Ahmed El-Soda](#), M.Sc. (in progress), Mansoura University, Mansoura, Egypt. "Synthesis and biological evaluation of some new heteroaryl-diazepine analogues as CNS active agents".
5. [Nayara Mohammed](#), M.Sc. (in progress), Mansoura University, Mansoura, Egypt. "Synthesis and molecular docking study of new phthalimide-based compounds as antimicrobial agents".
6. [Mohamed Amir Sabry Mosa](#), M.Sc. (in progress), Mansoura University, Mansoura, Egypt. "Synthesis and Biological Evaluation of Some New Quinazoline-4(3*H*)-one Analogues".
7. [Selwan M. H. El-Sayed](#), Ph.D. (2018), Mansoura University, Mansoura, Egypt. "Design and Synthesis of New Imidazole Derivatives of Potential Antitumor Activity".
8. [Mennatallah A. Saad](#), M.Sc. (2017), Ain Shams University, Cairo, Egypt. "Design and Synthesis of Novel Thiazole Derivatives as Potential Targeted Anticancer Agents".
9. [Yomna I. H. El-Gazzar](#), M.Sc. (2017), Cairo University, Cairo, Egypt. "Nonclassical Antifolates: Synthesis, Biological Evaluation and Molecular Modeling Study of Some New Quinazolin-4-one Analogues as DHFR Inhibitors".
10. [Hazem A. Ghabbour](#), Ph.D. (2015), King Saud University, Riyadh, Saudi Arabia. "Synthesis and Biological Evaluation of New Thiazole Derivatives as CNS Active Compounds".
11. [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".
12. [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".
13. [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".

14. 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."
15. Huda A. Al-Salem, M.Sc. (2002), King Saud University, Riyadh, Saudi Arabia. "Design, Synthesis and Investigation of Brain Delivery Model for Anticancer Compounds."
16. 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".
17. 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 Anti-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 Science, 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 National Committee of Medicines, Academy of Scientific Research and Technology, Egypt-since 2019
2. Moderator of Drug Research Council, Academy of Scientific Research and Technology, Egypt- science 2016
3. The American Chemical Society since 1985.
4. The Egyptian Pharmaceutical Society since 1978.
5. The Egyptian Syndicate of Pharmacists since 1978.

EDITORIAL & ADVISORY BOARDS:

1. The Managing Editor, "Future Journal of Pharmaceutical Sciences", since 2015.
2. EACEA-Erasmus+, European Commission, List of expertise, since 2012.
3. The Editorial Board, "International Journal of Medicinal Chemistry", since 2009.
4. The Advisory Board, "Saudi Pharmaceutical Journal", since 1999.

AWARDS:

1. Medal of Science and Arts, President Abdelfattah El-SiSi, Cairo, Egypt, 2017.
2. State Prize for Scientific Distinction in Medical Sciences, the Academy of Scientific Research and Technology, Cairo, Egypt, 2014.
3. FUE award for Outstanding Research- Future University in Egypt, Cairo, Egypt, 2012.
4. Waleed Kayali Prize for Scientific Research- Saudi Pharmaceutical Society, Riyadh, Saudi Arabia, 2008
5. State Prize for Encouragement of Scientific Research- in Medical Sciences, the Academy of Scientific Research and Technology, Cairo, Egypt, 1997.
6. Alexander von Humboldt Scholarship, Germany, 1996
7. Shoman Award for the Young Arab Scientists in Chemistry - Amman, Jordan, 1994
8. Postdoctoral fellowship, University of Rhode Island, College of Pharmacy, USA, 1989-1991.

FUNDED RESEARCH PROJECTS:

1. Leveling up the quality of research standards using NMR spectrometer. H.I. El-Subbagh, F.A. Badria, M.A. Abdelaziz, G.S. Hassan, L.A. Abuzaid, F.A. Abdelbar. Science and Technology Development Fund (STDF), 2016, Cairo, Egypt. **(5,000,000 EGP)**
2. Nonclassical Antifolates: Synthesis, Biological Evaluation and Molecular Modeling Study of Some Quinazolin-4-one Analogues as DHFR Inhibitors. H.I. El-Subbagh, H. Hanna, G.S. Hassan, S.M. El-Messery, Y. Ibrahim. Science and Technology Development Fund (STDF), 2014, Cairo, Egypt. **(100,000 EGP)**
3. 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. **(3,000,000 SR)**
4. 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. **(2,500,000 SR)**
 5. 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. **(10,000 SR)**
 6. 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. **(1,500,000 SR)**
 7. Synthesis and Anticovulsant Activity of Certain 2-thieno-4(3H)-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. **(2,500,000 SR)**
 8. Synthesis of potential drugs for thromboembolic heart diseases. K.M. Youssef, H.I. El-Subbagh, M.A. Al-Omar, A.S. Al-Tuwaijjeri, A.M. Gader. King Abdulaziz City for Science & Technology; 2006, Riyadh, Saudi Arabia. **(2,000,000 SR)**
 9. 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. **(1,500,000 SR)**
 10. 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. **(10,000 SR)**
 11. 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. **(3,000,000 SR)**
 12. 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. **(2,000,000 SR)**
 13. Synthesis and Antitumor Activity of Certain 2-thieno-4(3H)-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. **(2,000,000 SR)**
 14. Substituted Quinazoline, 2. Synthesis and Antitumor Activity of Certain 2 Aryl or Alkylthio-4(3H)-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. **(10,000 SR)**
 15. 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. **(10,000 SR)**

16. 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. **(1,500,000 SR)**
17. 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. **(10,000 SR)**
18. 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. **(100,000 SR)**
19. Synthesis of Potential Nitrothioxanthone 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. **(50,000 EGP)**

CONFERENCES:

1. Nonclassical antifolates. Synthesis, Biological Evaluation and Molecular Modeling Study of Some New Quinazolin-4-ones as Dihydrofolate Reductase Inhibitors. Yomna I. El-Gazzar, Hussein I. El-Subbagh, Hanan H. Georgy, Ghada S. Hassan. 18th International Conference on Ethnopharmacology and Pharmaceutical Chemistry, London, UK, August 25-26, 2016.
2. Substituted Thiazole analogues as Antitumor Agents. Menna Ewida, Dalal Abou El-Ella, Dina Lasheen, Hussein El-Subbagh. 18th International Conference on Pharmacognosy and Pharmaceutical Chemistry, Paris, France, August 22-23, 2016.
3. Substituted thiazoles VII. Synthesis and antitumor activity of certain 2-(substituted-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.
4. 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.
5. 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.
6. Nonclassical antifolates, Part 5. Benzodiazepine analogues as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling study Hussein 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.
7. 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.
 8. 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.
 9. 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
 10. Nonclassical antifolates, Part 5. Benzodiazepine analogues as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling study Hussein 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.
 11. 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.
 12. 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.
 13. 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.
 14. 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.

15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. Synthesis and Anticonvulsant Evaluation of Some New 4(3H)-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.
23. 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.
24. 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.
25. 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.
 26. Synthesis, Antiplatelet Aggregation Activity, and Molecular Modeling Study of Novel Substituted-Piperazine Analogues. Khairia M. Youssef, Mohamed A. Al-Omar, Hussein I. El-Subbagh, Laila A. Abou-zeid, Abdel-Galil M. Abdel-Gader, Nadia G. Haress, Ali S. Al Tuwajjri. The 3rd International Conference of the Arab Society for Medical Research, The National Medical Research Centre, Al-Zawia, Libya. October 12-14, 2010.
 27. Synthesis, Dihydrofolate Reductase Inhibition, Antimicrobial Testing, Antitumor Screening, and Molecular Modeling Study of Some New Substituted-4(3H)-Quinazolinone Analogues. F.A.M. Al-Omary, L.A. Abou-zeid, M.N. Nagi, E.E. Habib, A.A.-M. Abdel-Aziz, M.A. Al-Omar, H.I. El-Subbagh. The 8th Spanish-Italian Symposium on Organic Chemistry (SISOC-VIII), the Centro Culturale San Gaetano, Padova, Italy. July 3-6, 2010.
 28. Nonclassical Antifolate Compounds as Dihydrofolate Reductase Inhibitors. F.A.M. Al-Omary, L.A. Abou-zeid, M.N. Nagi, E.E. Habib, A.A.-M. Abdel-Aziz, M.A. Al-Omar, H.I. El-Subbagh. The 8th Saudi International Pharmaceutical Conference, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. April 26-28, 2010.
 29. Nonclassical Antifolate Compounds as Dihydrofolate Reductase Inhibitors: Synthesis, Biological Evaluation and Molecular Modeling Study. F.A.M. Al-Omary, L.A. Abou-zeid, M.N. Nagi, E.E. Habib, A.A.-M. Abdel-Aziz, S.G. Abdel-Hamide, H.I. El-Subbagh. A workshop on "Research Trends in Pharmaceutical Chemistry", Drug Exploration and Development Chair (DEDC), Marriot Hotel, Riyadh, Saudi Arabia. April 13, 2009.
 30. New Ultra-short Acting Hypnotic: Synthesis, Biological Evaluation, and Metabolic Profile of Ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a]- [1,3]diazepin-3-carboxylate (HIE 124). H.I. El-Subbagh, H.A. El-Kashef, A.A. Kadi, A.A.-M. Abdel-Aziz, G.S. Hassan, J. Tettey, J. Lehmann. A workshop on "Research Trends in Pharmaceutical Chemistry", Drug Exploration and Development Chair (DEDC), Marriot Hotel, Riyadh, Saudi Arabia. April 13, 2009.
 31. Synthesis of Potential Drugs for Thromboembolic Heart Diseases. K. M. Youssef, H. I. El-Subbagh, M. A. Al-Omar, N. G. Hares, A. S. Al-Tuwajjri, A. Galil M. A. Gader. The 3rd International Meeting on Medicinal and Pharmaceutical Chemistry, Antalya, Turkey. October 16-21, 2007.
 32. Synthesis and Anticonvulsant Activity of Some New Nitrogenous Heterocycles. S.G. Abdel-Hamid, A.M. Alafeefy, O.A. Al-Deeb, H.I. El-Subbagh, M.M. Sayed-Ahmed, O.A. Al-Shabanah. The 7th International Saudi Pharmaceutical Conference, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. March 19-21, 2007.
 33. Synthesis of Some 2- and 4-Peptidylestrone Derivatives of Potential Therapeutic Activity. O. M. Aboulwafa, M. S. Al-Mutairi, K. M. Youssef, H. I. El-Subbagh, O. A. Al-Deeb, A. J. Fatani, M. S. Al-Okail. The 7th International Saudi Pharmaceutical Conference, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. March 19-21, 2007.
 34. Synthesis of (Ring-A) Substituted Estrogens of Potential Therapeutic Activity. O.M.

- Aboulwafa, M.S. Al-Mutairi, K.M. Youssef, H.I. El-Subbagh, O.A. Al-Deeb, A.T. Al-Alfy, and A. G. Fatani. XIXth International Symposium of Medicinal Chemistry, Istanbul, Turkey. Aug. 29-Sep. 2, 2006.
35. Synthesis, Molecular modeling, and Dihydrofolate Reductase Inhibition Activity of Some New 4(3H)-Quinazolinone Analogues. H.I. El-Subbagh, S.T. Al-Rashood, I.A. Aboldahab, S.G. Abdel-Hamide, L.A. Abou-zeid, and M.N. Nagi The 9th International Pharmaceutical Sciences Conference and Exposition and the 9th General Assembly Meeting of the Scientific Society of Colleges of Pharmacy of the Association of Arab Universities in the Arab World, Riyadh, Saudi Arabia. Dec. 17-21, 2005.
 36. Design, Synthesis and Investigation of Brain Delivery Model for Anticancer Compounds. M.A. El-Sherbeny, H.S. Al-Salem, M.A. Sultan, M.A. Radwan, H.A. Farag and H.I. El-Subbagh; 7th International Conference on Chemistry and its Role in Development, Mansoura & Sharm El-Sheikh, Egypt. April 14–17, 2003.
 37. Synthesis and Biological Evaluation of Certain, α,β Unsaturated Ketones and Their Corresponding Fused Pyridines as Antiviral, Antitumor Agents. S.M. Abu-Zaid, M. Mahran and H.I. El-Subbagh. The 5th International Saudi Pharmaceutical Conference, Riyadh, Saudi Arabia. Oct. 26-28, 1999.
 38. Synthesis of Certain 5-Substituted 2-Thiohydantoin Derivatives as Potential Cytotoxic and Antiviral Agents. A.I. Khodair, H.I. El Subbagh, and A.A. El-Emam; 17th International Symposium on the Organic Chemistry of Sulfur, Tsukuba, Japan. July 7-12, 1996.
 39. Reaction of 3-[(2-Aminothiazol-4-yl)methyl]-4-amino-5-mercapto-1,2,3-triazole with acetic anhydride, carboxylic acids, 2-chloronicotinic acid, Cyanogen bromide, Phenacyl bromide, and α,β -Unsaturated Ketones. A.M. Abdelal, M.M. Gineinah, H.I. El Subbagh and I.A. Shehata. XXIV Conference of Pharmaceutical Sciences, Cairo, Egypt. Dec. 20-22, 1994.
 40. Novel Diarylthioether Derivatives as Potential Cytotoxic Agents. H.I. El Subbagh, M.A. Nasr, M.A. El Sherbeny, F.E. Goda and F.A. Badria; Jamahiriya's Second Conference on Medical Sciences, Benghazi, Libya, May 8-11, 1994.
 41. Synthesis and Antibacterial Activity of Certain Oxadiazoles, Triazoles and Fused Triazoles. I.A. Shehata, M.M. Gineinah, H.I. El Subbagh, S.A. Khira and M.A. Nasr; Jamahiriya's Second Conference on Medical Sciences, Benghazi, Libya, May 8-11, 1994.
 42. Synthesis and Biological Evaluation of Certain Thiazole Derivatives as Potential Antitumor Antibiotics. H.I. El Subbagh, W.A. El Naggar and F.A. Badria; 1st Int. Conf. in Chemistry & its Applications, Doha, Qatar. December 7-9, 1993.
 43. An Efficient, Chiral Synthesis of Dihydrosphingosines (Sphingamines). H.I. El Subbagh and R.P. Panzica; 205th ACS National Meeting, Denever, Co, USA. March 28-April 2, 1993.
 44. A Facile Synthesis of β - and γ -Hydroxyphosphonates from Epoxides. S. Racha, Z. Li, H.I. El Subbagh and E. Abushanab; 203rd ACS National Meeting, San Francisco, CA, USA. April 5-10, 1992.
 45. A Stereospecific Synthesis of β -D-2'-Deoxypyrimidine Nucleosides. H.I. El Subbagh, L.J. Ping and E. Abushanab; Gordon Research Conference, Salve Regina College, Newport, RI, USA. July 8-12, 1991.
 46. New Imidazo-Pyrazine and Imidazo-Tetrazine Derivatives. Synthesis and Characterization. A.S. Tantawy, L.Gad, M. B. El Ashmawy, H I. El Subbagh and A.A. El Emam; XXI

Conference of Pharmaceutical Sciences, Cairo, Egypt. February 24-27, 1990.

47. Synthesis and Oral Antischistosomal Effect of Certain Thioxanthone Derivatives. M.M. El Kerdawy, E. Abushanab, A.A. El Emam and H.I. El Subbagh; ASPET-ACS Meeting, Boston, Mass., USA. August 18-22, 1985.
48. Synthesis of Certain thioxanthenes to be evaluated as oral schistosomicidal agents. M.M. El Kerdawy, A.A. El Emam and H.I. El Subbagh; XI International Congress for Tropical Medicine & Malaria, Calgary, Canada. September 16-22, 1984.

WORKSHOPS:

1. **Nuclear Magnetic Resonance (NMR) Spectral Interpretations**, Training Course, H.I. El-Subbagh. College of Pharmacy, University of Mansoura, Mansoura, Egypt. August 30, 2010.
2. **Nuclear Magnetic Resonance (NMR) For Pharmacists**, H.I. El-Subbagh. *The 8th Saudi International Pharmaceutical Conference*, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. April 26-28, 2010.
3. **Research Trends in Pharmaceutical Chemistry**, H.I. El-Subbagh. Drug Exploration and Development Chair (DEDC), Marriot Hotel, Riyadh, Saudi Arabia. April 13, 2009.
4. **Nuclear Magnetic Resonance (NMR) For Non-spectroscopists**, H.I. El-Subbagh. College of Pharmacy, University of Mansoura, Mansoura, Egypt. September 9, 2008.

LITERATURE CITATIONS:

A) Publications:

1. Imidazo[2',1':2,3]thiazolo[4,5-d]pyridazinone as a new scaffold of DHFR inhibitors: synthesis, biological evaluation and molecular modeling study. M.A. Ewida, D.A. Abou El Ella, D.S. Lasheen, H.A. Ewidat, Y.I. El-Gazzar, H.I. El-Subbagh. *Bioorg. Chem.* 2018, 80, 11–23.
2. New Imidazole-4-one and Imidazolidine-2,4-dione analogs: design, synthesis, antitumor activity, and molecular modeling study. S.M. El-Sayed, M.B. El-Ashmawy, S.M. Bayoumi, G.S. Hassan, H.I. El-Subbagh. *A J Physiol Biochem Pharmacol.* 2018, 7, 24-41. doi:10.5455/ajpbp.20180427101802.
3. *N*-substituted-piperidines as Novel Anti-alzheimer Agents: Synthesis, antioxidant activity, and molecular docking study. K.M. Youssef, I.M. Fawzy, H.I. El-Subbagh. *Future J. of Pharm. Sci.* 2018, 4, 1-7.
4. Dihydrofolate reductase (DHFR) inhibition and molecular modeling study of some 6-bromo- or 6,8-dibromo-quinazolin-4(3H)-ones. Abdelkhalek AA, Ewida HA, El-Messery SM, Mahmoud HSA, Wasfy AF, Moharram EAM, El-Subbagh HI. *A J Physiol Biochem Pharmacol.* 2018, 7, 1-10. doi:10.5455/ajpbp.20180324024555
5. Thiazolo[4,5-d]pyridazine analogues as a new class of Dihydrofolate reductase (DHFR) inhibitors: Synthesis, biological evaluation and molecular modeling study M.A. Ewida, D.A. Abou El Ella, D.S. Lasheen, H.A. Ewida, Y.I. El-Gazzar, H.I. El-Subbagh. *Bioorg. Chem.* 2017, 74, 228–237.
6. Derivatives of Cucurbitacin-E-glucoside produced by *Curvularia lunata* NRRL 2178: Anti-

- inflammatory, antipyretic, antitumor activities, and effect on biochemical parameters. A.A. Abdelkhalek, A.M.M.A Sharaf, M. Rabie, H.I. El-Subbagh. *Future J. Pharm. Sci.* 2017, 3, 124-130 <https://doi.org/10.1016/j.fjps.2017.04.006>
7. Synthesis, biological evaluation and molecular modeling study of new 1,2,4-triazole or 1,3,4-thiadiazole-methylthio-derivatives of quinazolin-4(3*H*)-one as DHFR inhibitors. Y.I. El-Gazzar, H.H. Georgey, S.M. El-Messery, H.A. Ewida, G.S. Hassan, M.M. Raafat, M.A. Ewida, H.I. El-Subbagh. *Bioorg. Chem.* 2017, 72, 282–292.
 8. Thiadiazolodiazepine Analogues as a New Class of Neuromuscular Blocking Agents: Synthesis, Biological Evaluation and Molecular Modeling Study. H.I. El-Subbagh, A.S. El-Azab, G.S. Hassan, S.M. El-Messery, A.A.-M. Abdel-Aziz, K.E.H. El-Taher. *Eur. J. Med. Chem.*, 2017, 126, 15-23.
 9. Synthesis, Biological Evaluation and Molecular Modeling Study of Some New Thiazolodiazepine Analogues as CNS Active Agent. S.T.A. Al Rashood, G.S. Hassan, S.M. El-Messery, K.E.H. El-Taher, M.A. Al-Omar, H.I. El-Subbagh. *Bioorg. & Med. Chem. Lett.* 2016, 26, 445–453.
 10. Synthesis, biological evaluation and molecular modeling study of some new methoxylated 2-benzylthio-quinazolin-4(3*H*)-ones as nonclassical antifolates. S.M. El-Messery, G.S. Hassan, M.N. Nagi, E.E. Habib, S.T. Al-Rashood, H.I. El-Subbagh. *Bioorg. & Med. Chem. Lett.* 2016, 26, 4815–4823
 11. Synthesis, Biological Evaluation and Molecular Modeling Study of Thiadiazolo[3,2-*a*][1,3]diazepine Analogues of H1E-124 as a New Class of Short Acting Hypnotics. H.I. El-Subbagh, G.S. Hassan, K.E.H. El-Taher, S.M. El-Messery, A.S. Al-Azab, A.A.-M. Abdelaziz, M.M. Hefnawy. *Eur. J. Med. Chem.*, 2016, 124, 237-247.
 12. Synthesis, biological evaluation and molecular docking studies of thiazole-based pyrrolidinones and isoindolinediones as anticonvulsant agents. H.A. Ghabbour, A.A. Kadi, K.E.H. ElTahir, R.F. Angawi, H.I. El-Subbagh. *Med. Chem. Res.*, 2015, 24, 3194-3211.
 13. Interaction of some new 2-(substituted-thio)-quinazolin-4-ones with molybdenum hydroxylases: A pharmacophore prediction. H.I. El-Subbagh, A.A.-M. Abdel-Aziz, M.A. Al-Omar, F.A. Al-Omary. *Future J. Pharm. Sci.* 2015, 1, 50-56.
 14. DNA binding of Ethyl 2-substituted aminothiazole-4-carboxylate analogues: A molecular modeling approach to predict their antitumor activity. L.A. Abouzeid, H.I. El-Subbagh. *Future J. Pharm. Sci.* 2015, 1, 1-7.
 15. Selective Analysis of Dopamine Receptor Antagonist LE300 and its N-Methyl Metabolite in Mouse Sera at the Trace Level by HPLC–Fluorescence Detection. M. Hefnawy, A. Alanazi, M. Abounassif, M. Mohammed, I. Al-Swaidan, S. Attia, G. Mostafa, H. El-Subbagh, J. Lehmann. *Chromatographia* 2015, 78, 655-661.
 16. Synthesis, anticonvulsant activity and molecular modeling study of some new hydrazinecarbothioamide, benzenesulfonylhydrazide, and phenacylaceto-hydrazide analogues of 4(3*H*)-quinazolinone. H. S. A. Al-Salem, G. H. Hegazy, K. E. H. El-Taher, S. M. El-Messery, A. M. Al-Obaid, H. I. El-Subbagh. *Bioorg. & Med. Chem. Lett.* 2015, 25, 1490–1499.
 17. Synthesis, biological evaluation and molecular modeling study of 2-(1,3,4-Thiadiazolyl-thio and 4-methyl-thiazolyl-thio)-quinazolin-4-ones as a new class of DHFR inhibitors. S. T. Al-Rashood, G. S. Hassan, S. M. El-Messery, M. N. Nagi, E. E. Habib, F. A. M. Al-Omary, H. I.

- El-Subbagh. *Bioorg. & Med. Chem. Lett.* 2014, 24, 4557–4567.
18. **Nonclassical antifolates, Part 5.** Benzodiazepine analogues as a new class of DHFR inhibitors: Synthesis, antitumor testing and molecular modeling study. H.I. El-Subbagh, G.S. Hassan, S.M. El-Messery, F.A.M. Al-Omary, S.T. Al-Rashood, Y.S. Abulfadl, M.I. Shabayek. *Eur. J. Med. Chem.*, 2014, 74, 234-245.
 19. **Nonclassical antifolates, Part 4.** 5-(2-Aminothiazol-4-yl)-4-phenyl-4*H*-1,2,4-triazole-3-thiols as a new class of DHFR inhibitors: Synthesis, biological evaluation and molecular modeling study. G.S. Hassan, S.M. El-Messery, F.A.M. Al-Omary, S.T. Al-Rashood, M.I. Shabayek, Y.S. Abulfadl, E.E. Habib, S.M. El-Hallouty, W. Fayad, K.M. Mohamed, B.S. El-Menshaw, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2013, 66, 135-145.
 20. **Nonclassical antifolates, Part 3:** Synthesis, biological evaluation and molecular modeling study of some new 2-heteroarylthio-quinazolin-4-ones. Fatmah A. M. Al-Omary, G.S. Hassan, S.M. El-Messery, M.N. Nagi, E.E. Habib, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2013, 63, 33-45.
 21. **Novel 4(3*H*)-Quinazolinone Analogues:** Synthesis and Anticonvulsant Activity. A.S. El-Azab, S.G. Abdel-Hamide, M.M. Sayed-Ahmed, G.S. Hassan, T.M. El-Hadiyah, O.A. Al-Shabanah, O.A. Al-Deeb, H.I. El-Subbagh. *Med. Chem. Res.*, 2013, 22, 2815–2827.
 22. **Substituted Thiazoles VII.** Synthesis and Antitumor Activity of Certain 2-(Substituted amino)-4-Phenyl-1,3-Thiazole Analogs. G.S. Hassan, S.M. El-Messery, F.A.M. Al-Omary, H.I. El-Subbagh. *Bioorg. & Med. Chem. Lett.*, 2012, 22, 6318–6323.
 23. **Substituted Thiazoles VI.** Synthesis and Antitumor Activity of New 2-Acetamido- and 2 or 3-Propanamido-Thiazole Analogues. S.M. El-Messery, G.S. Hassan, F.A.M. Al-Omary, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2012, 54, 615-625.
 24. Design, synthesis, single-crystal and preliminary antitumor activity of novel arene-sulfonyl-imidazolidin-2-ones. A.A.-M. Abdel-Aziz, A.S. El-Azab, H.I. El-Subbagh, A.M. Al-Obaid, A.M. Alanazi, M.A. Al-Omar. *Bioorg. & Med. Chem. Lett.*, 2012, 22, 2008-2014.
 25. **Substituted Thiazoles V.** Synthesis and Antitumor Activity of Novel Thiazolo[2,3-*b*]quinazoline and Pyrido[4,3-*d*]thiazolo[3,2-*a*]pyrimidine Analogues. F.A.M. Al-Omary, G.S. Hassan, S.M. El-Messery, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2012, 47, 65-72.
 26. Novel 1,3,4-Heterodiazole Analogues: Synthesis and in-vitro Antitumor Activity. A.T. Taher, H.H. Georgey, and H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2012, 47, 445-451.
 27. 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. H.I. El-Subbagh, G.S. Hassan, A.S. El-Azab, A.A.-M. Abdel-Aziz, A.A. Kadi, A.M. Al-Obaid, O.A. Al-Shabanah, M.M. Sayed-Ahmed. *Eur. J. Med. Chem.*, 2011, 46, 5567-5572.
 28. Chiral Indolo[3,2-*f*][3]benzazecine-Type Dopamine Receptor Antagonists: Synthesis and Activity of Racemic and Enantiopure Derivatives. D. Robaa, C. Enzensperger, S. ElDin AbulAzm, M.M. Hefnawy, H.I. El-Subbagh, T.A. Wani, J. Lehmann, *J. Med. Chem.*, 2011, 54, 7422–7426.
 29. Synthesis and Biological Evaluation of Some Novel Cyclic-imides as Hypoglycaemic, Anti-hyperlipidemic agents. A.A.-M. Abdel-Aziz, A.S. El-Azab, S.M. Attia, A.M. Al-Obaid, M.A. Al-Omar, H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2011, 46, 4324-4329.
 30. Synthesis, Antiplatelet Aggregation Activity, and Molecular Modeling Study of Novel

- Substituted-Piperazine Analogues. K.M. Youssef, M.A. Al-Omar, H.I. El-Subbagh, L.A. Abou-zeid, A.M. Abdel-Gader, N.G. Haress, A.S. Al Tuwaijri. *Med. Chem. Res.*, 2011, 20, 898-911.
31. Liquid chromatographic high-throughput analysis of the new ultra-short acting hypnotic 'HIE-124' and its metabolite in mice serum using a monolithic silica column. A. Kadi, M. Hefnawy, A. Al-Majed, S. Alonezi, Y. Asiri, S. Attia, E. Abourashed, H. El-Subbagh. *Analyt.*, 2011, 136, 591-597.
 32. Novel, Selective Sample Stacking Microemulsion Electrokinetic Capillary Chromatography Induced by Reverse Migrating Pseudostationary Phase for The Determination of The New Ultra-Short Acting Hypnotic "HIE-124" in Mice Serum. M. Hefnawy, M. Al-Omar, S. Julkhuf, S. Attia, E. Abourashed, H. El-Subbagh. *Analytica Chimica Acta*, 2010, 673, 194-199.
 33. **Nonclassical Antifolates, Part 2.** Synthesis, Biological Evaluation and Molecular Modeling Study of Some New 2,6-Substituted-quinazolin-4-ones. F.A.M. Al-Omary, L.A. Abou-zeid, M.N. Nagi, E.E. Habib, A.A.-M. Abdel-Aziz, A.S. El-Azab, S.G. Abdel-Hamide, M.A. Al-Omar, A.M. Al-Obaid, H.I. El-Subbagh. *Bioorg. & Med. Chem.*, 2010, 18, 2849-2863.
 34. Synthesis and Biological Evaluation of Some Polymethoxylated Fused Pyridine Ring Systems as Antitumor Agents. S.A.F. Rostom, G.S. Hassan, and H.I. El-Subbagh. *Arch. Pharm. Chem. Life Sci.*, 2009, 342, 584-90.
 35. **Substituted Quinazolines, Part 3.** Synthesis, In-Vitro Antitumor Activity and Molecular Modeling study of Certain 2-Thieno-4(3H)-quinazolinone Analogs. A.M. Al-Obaid, S.G. Abdel-Hamide, H.A. El-Kashef, A.A. M. Abdel-Aziz, H.A. Al-Khamees, and H.I. El-Subbagh. *Eur. J. Med. Chem.*, 2009, 44, 2379-2391.
 36. HPTLC analysis of a new ultra-short-acting thiazolodiazepine hypnotic (HIE-124) in spiked human plasma. E.A. Abourashed, M.M. Hefnawy and H.I. El-Subbagh. *J. Planar Chromatog. (JPC)*, 2009, 22, 183-186.
 37. Oral colon targeted delivery systems for treatment of inflammatory bowel diseases: Synthesis, in vitro and in vivo assessment. A.H. El-Kamel, A.A.-M. Abdel-Aziz, A.J. Fatani, H.I. El-Subbagh. *Internat. J. Pharmac.*, 2008, 358, 248-255.
 38. Synthesis, Ultra-short Acting Hypnotic Activity, and Metabolic Profile of Ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE-124). A.A. Kadi, H.A. El-Kashef, A.A.-M. Abdel-Aziz, G. S. Hassan, J. Tettey, H.M. Grant, J. Lehmann, H.I. El-Subbagh. *Arch. Pharm. Chem. Life Sci.*, 2008, 341, 81-89.
 39. New Ultra-short Acting Hypnotic: Synthesis, Biological Evaluation, and Metabolic Profile of Ethyl 8-oxo-5,6,7,8-tetrahydro-thiazolo[3,2-a][1,3]diazepin-3-carboxylate (HIE-124). H. I. El-Subbagh, H. A. El-Kashef, A. A. Kadi, A.A.-M. Abdel-Aziz, G.S. Hassan, J. Tettey, J. Lehmann. *Bioorg. & Med. Chem. lett.*, 2008, 18, 72-77.
 40. Synthesis, Dihydrofolate Reductase Inhibition, and Molecular Modeling Study of Some New 4(3H)-Quinazolinone Analogues. S.T. Al-Rashood, I.A. Aboldahab, L.A. Abouzeid, A.A.-M. Abdel-Aziz, M.N. Nagi, S.G. Abdul-hamide, K.M. Youssef, A.M. Al-Obaid, H I. El-Subbagh, *Bioorg. & Med. Chem.*, 2006, 14, 8608-8621.
 41. Dopamine/Serotonin Receptor Ligands, 10: SAR Studies on Azecine Type Dopamine receptor Ligands by Functional Screening at Human Cloned D1, D2L and D5 Receptors with a Microplate Reader Based Calcium Assay Lead to a Novel Potent D1/D5 Selective

- Antagonist. B. Hoefgen, M. Decker, P. Mohr, A.M. Schramm, S.A.F. Rostom, H.I. El-Subbagh, P.M. Schweikert, D.R. Rudolf, M.U. Kassack, J. Lehmann, *J. Med. Chem.*, 2006, 49,760-769.
42. Synthesis and Investigation of Novel Shelf-Stable, Brain-Specific Chemical Delivery System. A.M. Al-Obaid, H.A. Farag, A.A. Khalil, O.A. Al-Shabanah, S.G. Abdel Hamide, H.A. El-Kashef, H.S. Ahmed, A.M. Al-Affifi, R.A. Gadkariem, H.I. El-Subbagh, *Saudi Pharm. J.*, 2006, 14, 1-15.
 43. Lewis Acid-Promoted Transformation of 2-Alkoxy pyridines into 2-Aminopyridines and Their Antibacterial Activity. Part 2: Remarkably Facile C-N Bond Formation. A.A. Abdel-Aziz, H.I. El-Subbagh, T. Kunieda, *Bioorg. & Med. Chem.*, 2005, 13, 4929–4935.
 44. Synthesis and *in Vitro* Antioxidant Activity of some New Fused Pyridine Analogs. M.A. Al-Omar, K.M. Youssef, M.A. El-Sherbeny, S.A. Awadalla, H.I. El-Subbagh, *Arch. Pharm. Chem. Life Sci.*, 2005, 338, 175-180.
 45. Interaction of 2-Thio-4-oxo-quinazoline Derivatives with Quinea Pig Liver Molybdenum Hydroxylases, Xanthine Oxidase, and Aldehyde Oxidase. M.A. Al-Omar, S.T. Al-Rashood, H.I. El-Subbagh, S.G. abdel Hamide, *J. Biol. Sci.*, 2005, 5, 370–378.
 46. Synthesis and Biological Screening of Some New Substituted-3*H*-Quinazolin-4-one Analogs as Antimicrobial Agents. M.A. Al-Omar, S.G. abdel Hamide, H.A. Al-Khamees, H.I. El-Subbagh, *Saudi Pharm. J.*, 2004, 12, 63-71.
 47. Synthesis, *in Vitro* and *in Vivo* Evaluation of a Delivery System for Targeting Anticancer Drugs to the Brain. M.A. El-Sherbeny, H.S. Al-Salem, M.A. Sultan, M.A. Radwan, H.A. Farag, H.I. El-Subbagh, *Arch. Pharm. Pharm. Med. Chem.*, 2003, 336, 445–455.
 48. **Substituted quinazolines, 2.** Synthesis and *In-Vitro* Anticancer Evaluation of New 2-Substituted Mercapto-3*H*-quinazoline Analogs. A.A. Khalil, S.G. abdel Hamide, A.M. Al-Obaid, and H.I. El-Subbagh, *Arch. Pharm. Pharm. Med. Chem.*, 2003, 336, 95–103.
 49. **Dopamine/Serotonin Receptor Ligands. Part IV [1]:** Synthesis and Pharmacology of Novel 3-Benzazecines and 3-Benzazonines as Potential 5-HT_{2A} and Dopamine Receptor Ligands. H.I. El-Subbagh, T. Wittig, M. Decker, S. Elz, M. Nieger, J. Lehmann, *Arch. Pharm. Pharm. Med. Chem.*, 2002, 335, 443-8.
 50. **Substituted Quinazolines, 1.** Synthesis and Antitumor Activity of Certain Substituted 2-Mercapto-4(3*H*)-quinazoline Analogs. S.G. Abdel Hamide, H.A. El-Obeid, K.A. Al-Rashood, A.A. Khalil and H.I. El-Subbagh, *Sci. Pharm.*, 2001, 69, 351-366.
 51. The *in vitro* Antitumor Assay of 5-(*Z*)-arylidene-4-imidazolidinones in Screens of AIDS-related Leukemia and Lymphomas. S.H. Al-Madi, A.M. Al-Obaid, H.I. El-Subbagh, *Anti-Cancer Drugs*, 2001, 12, 835-839.
 52. Synthesis and Anticonvulsant Activity of Some New 4-Oxo-3*H*-quinazoline Analogs. S.G. Abdel Hamide, H.A. El-Obeid, A.A. Al-Majed, H.A. El-Kashef and H.I. El-Subbagh, *Med. Chem. Res.*, 2001, 10, 378-389.
 53. **Substituted Thiazoles IV.** Synthesis and Antitumor Activity of New Substituted Imidazo[2,1-*b*]thiazole Analogs. H.I. El-Subbagh, I.E. Al-Khawad, E.R. El-Bendary and A.M. Al-Obaid, *Saudi Pharm. J.*, 2001, 9, 14-20.
 54. Synthesis and Biological Evaluation of Certain, α , β -Unsaturated Ketones and Their Corresponding Fused Pyridines as Antiviral, Antitumor Agents. H.I. El-Subbagh, S.M. Abu-

- Zaid, M.A. Mahran, F.A. Badria and A.M. El-Obaid, *J. Med. Chem.*, 2000, 43, 2915-21.
55. Synthesis and Anticonvulsant Activity of Some 1-Substituted-2-oxopyrrolidine Derivatives, II. A.M. Al-Obaid, H.I. El-Subbagh, O.A. Al-Shabanah and M.M. Elmazar, *Med. Chem. Res.*, 1999, 9, 696-721.
 56. Synthesis and Antitumor Activity of Certain New Substituted 1*H*-Isoindoldione Derivatives. A.M. Al-Obaid, F.S. El-Shafie, M.S. Al-Mutairi and H.I. El-Subbagh, *Sci. Pharm.*, 1999, 67, 129-147.
 57. Synthesis, Antitumor and Antitubercular Evaluation of Certain New Xanthenone and Acridinone Analogs. A.H. Abadi, H.I. El-Subbagh and H.A. Al-Khamees, *Arzneim.-Forsch./Drug Res.*, 1999, 49, 259-266.
 58. **2,4-Disubstituted Thiazoles, Part III.** Synthesis and Antitumor Activity of Ethyl 2-Substituted-Aminothiazole-4-carboxylate Analogs. H.I. El-Subbagh, A.H. Abadi and J. Lehmann; *Arch. Pharm. Pharm. Med. Chem.*, 1999, 332, 137-142.
 59. Antitumor Screening of New Cyclopenteno[*b*]thiophene, Benzo[*b*]thiophene, Thieno[2,3-*c*]pyridine and Pyrido[4',3':4,5]thieno[2,3-*d*]pyrimidine Analogs. H.I. El-Subbagh; *Saudi Pharm. J.*, 1999, 7, 34-38.
 60. Synthesis and Antitumor Activity of Some New Substituted Quinolin-4-one and 1,7-Naphthyridin-4-one Analogs. H.I. El-Subbagh, A.H. Abadi, I.E. Al-Khawad and K.A. Al-Rashood, *Arch. Pharm. Pharm. Med. Chem.*, 1999, 332, 19-24.
 61. Synthesis, Local Anesthetic, Antiarrhythmic and Antihypertensive Evaluation of New Ethyl 2-Aminothiazole-4-Carboxylate Derivatives. H.I. El-Subbagh, *Saudi Pharm. J.*, 1999, 7, 14-21.
 62. Stability-Indicating Quantitation of Azintamide in Dosage Formulations. E.M. Abdel-Moety, H.I. El-Subbagh, O.A. Al-Deeb and E.A. Gad-Kariem; *Sci. Pharm.*, 1998, 66, 47-57.
 63. Synthesis and Biological Evaluation of Certain New Cyclopenteno[*b*]thiophene Derivatives as Local Anesthetic and Antiarrhythmic Agents. A.M. Al-Obaid, H.I. El-Subbagh, O.A. Al-Shabanah and M.A. Mahran, *Die Pharmazie*, 1998, 53, 24-28.
 64. Reactivity of 3-[2-aminothiazol-4-yl]-4-amino-5-mercapto-1,2,4-triazole towards certain compounds containing unsaturated center. M.M. Gineinah, A.M. Abdelal, H.I. Subbagh, I.A. Shehata. *Boll. Chim. Farm.* 1998, 137, 48-54
 65. Synthesis, Conformational Analysis and Antitumor Testing of 5-(*Z*)-Arylidene-4-imidazolidinone Derivatives. A.I. Khodair, H.I. El-Subbagh and A.M. Al-Obaid, *Phosph. Sulf. Silicon*, 1998, 140, 159-181.
 66. Synthesis and Antitumor Activity of 9-Anilino, Phenylhydrazino, and Sulphonamido Analogs of 2- or 4-Methoxy-6-nitro-acridines. H.I. El-Subbagh, A.H. Abadi and H.A. Al-Khamees. *Arch. Pharm. Pharm. Med. Chem.*, 1997, 330, 277-284.
 67. Synthesis of Certain 5-Substituted 2-Thiohydantoin Derivatives a Potential Cytotoxic and Antiviral Agents. A.I. Khodair, H.I. El-Subbagh and A.A. El-Emam; *Boll. Chim. Farmaceutico*, 1997, 136, 561-567.
 68. Synthesis and Cardiotonic Activity of Certain Imidazo[2,1-*b*]-1,3,4-thiadiazole Derivatives. M.A. El-Sherbeny, E.R. El-Bendary, H.I. El-Subbagh and H.A. El-Kashef, *Boll. Chim Farmaceutico*, 1997, 136, 253-256.
 69. Synthesis and Antitumor Activity of Certain Thienopyridine and Pyridothienopyrimidine

- Derivatives. Hussein I. El-Subbagh, *Saudi Pharm. J.*, 1997, 5, 23-27.
70. Synthesis, Antitumor and Anti-HIV-1 Testing of Certain Thieno[2,3-*d*]pyrimidine, Thieno[2,3-*d*]imidazo[1,2-*c*]pyrimidine and Thieno[2,3-*b*][1,3]thiazine Derivatives. I.A. Shehata, H.I. El-Subbagh, A.M. Abdelal, M.A. El-Sherbeny and A.A. Al-Obaid; *Med. Chem. Res.* 1996, 6, 148-163.
 71. Reaction of 3-[(2-Aminothiazol-4-yl)methyl]-4-amino-5-mercapto-1,2,4-triazole with Acetic Anhydride, Carboxylic Acids, Cyanogen Bromide, 2-Chloronicotinic Acid, Phenacyl Bromides and α,β -Unsaturated Ketones. A.M. Abdelal, M. Gineinah, H.I. El-Subbagh and I.A. Shehata; *Chin. Pharm. J.* 1996, 48, 303-312.
 72. Synthesis and Biological Testing of Certain 1,3,4-Oxadiazole and 1,2,4-Triazole Derivatives as Potential Antimicrobial Agents. I.A. Shehata, M.A. Nasr, H.I. El-Subbagh, M.M. Gineinah and S.A. Khira; *Sci. Pharm.* 1996, 64, 133-143.
 73. Synthesis and Biological Evaluation of 1',2'-Seconucleo-5'-phosphonates. S. Racha, C. Vargeese, P. Vemishetti, H.I. El-Subbagh, E. Abushanab and R. Panzica; *J. Med. Chem.* 1996, 39, 1130-1135.
 74. Synthesis of Phosphonate Isosteres of 2'-Deoxy-1',2'-seco-nucleotides. H.I. El-Subbagh, S. Racha, E. Abushanab and R. Panzica; *J. Org. Chem.* 1996, 61, 890-894.
 75. **2,4-Disubstituted Thiazoles II.** A Novel Class Antitumor Agents, Synthesis and Biological Evaluation. H.I. El-Subbagh and A.A. Al-Obaid; *Eur. J. Med. Chem.* 1996, 31, 1017-1021.
 76. 5-Substituted-2-thiohydantoin Analogs as Novel Class of Antitumor Agents. A.M. Al-Obaid, H.I. El-Subbagh, A.I. Khodair and M.M. El-mazar, *Anti-cancer Drugs*, 1996, 7, 873-880.
 77. Novel Diarylsulphide Derivatives as Potential Cytotoxic Agents. H.I. El-Subbagh, M.A. El-Sherbeny, M.A. Nasr, F.E. Goda and F.A. Badria; *Boll. Chim. Farmaceutico*, 1995, 134, 80-84.
 78. Synthesis, Antimicrobial and Antiviral Evaluation of Certain Thienopyrimidine Derivatives. M.A. El-Sherbeny, M.B. El-Ashmawy, H.I. El-Subbagh, A.A. El-Emam and F.A. Badria; *Eur. J. Med. Chem.* 1995, 30, 445-49.
 79. Synthesis and Biological Activity of Certain γ -Pyrone and γ -Pyridone Derivatives as Potential Antitumor Antibiotics. H.I. El-Subbagh, and F.A. Badria; *Sci. Pharm.* 1994, 62, 237-45.
 80. Synthesis and Anticonvulsant Activity of Some 1-Substituted-2-Oxopyrrolidine Derivatives. H.I. El-Subbagh, M.A. Nasr, A.M. Abdelal, M.M. Gineinah and H.A. El Kashef, *Med. Chem. Res.* 1994, 4, 335-45.
 81. Synthesis and Biological Testing of 2,4-Disubstituted Thiazole Derivatives as Potential Antitumor Antibiotics. H.I. El-Subbagh, W.A. El-Naggar and F.A. Badria; *Med. Chem. Res.* 1994, 3, 503-16.
 82. A General and Facile Synthesis of β - and γ -Hydroxy phosphonates from Epoxides. Z. Li, S. Racha, L. Dan, H. El-Subbagh and E. Abushanab; *J. Org. Chem* 1993, 58, 5779-83.
 83. A Facile Synthesis of β - and γ -Hydroxyphosphonates from Epoxides. S. Racha, Z. Li, H.I. El-Subbagh and E. Abushanab; *Tetrahedron Lett.* 1992, 33, 5491-94.
 84. Synthesis of 1',2'-Seco-Nucleoside Analogues of AZT. P. Vemishetti, H.I. El-Subbagh, E. Abushanab and R.P. Panzica; *Nucleosides & Nucleotides* 1992, 11, 739-748.
 85. A Stereospecific Synthesis of Pyrimidine β -D-2'-Deoxyribonucleosides. H.I. El-Subbagh, L.J.

- Ping and E. Abushanab; *Nucleosides & Nucleotides* 1992, 11, 603-13.
86. Spectrophotometric Determination of Isoniazid Using Ethyl 8-quinolinoxy acetate. A. N. Ahmed, S.M. El Gizawy and H.I. El-Subbagh; *Anal Lett.* 1992, 25, 73-80.
 87. **Naproxen**. New Derivatives as Potential Analgetic Agents. I.A. Shehata, M.Y. Yousif, H.I. El-Subbagh, and M.B. El-Ashmawy; *Orient. J. Chem.* 1991, 2, 65-70.
 88. **1',2'-Seco-Thymidines**. The Preparation of 2,3'-Anhydroderivative and The Formation of Two Unusual Dimeric Products. A.F. Cichy, R. Saibaba, H.I. El-Subbagh, R.P. Panzica and E. Abushanab; *J. Org. Chem.* 1991, 56, 4653-58.
 89. **Fused Pyrimidines**. Synthesis of Pyrazolo[3,4-*e*]-1,3,4-thiadiazolo[3,2-*a*]pyrimidine and Pyrazolo[4',3':5,6]pyrimidino[2,1-*b*]benzothiazole derivatives. M.B. El-Ashm-awy, I.A. Shehata, H.I. El-Subbagh and A.A. El-Emam; *Gazz. Chim. Ital.*, 1991, 121, 113-15.
 90. Synthesis of Certain Thiazolylpyrimidine-4,6-diones and Thiazolyl-4-thiazolidinones as Potential Schistosomicidal Agents. Hussein I. El-Subbagh; *Sulfur Letter* 1990, 11, 249-57.
 91. Thienobenzothiopyranones III. New 4*H*-Thieno[2,3-*b*][1]benzothiopyran-4-ones Carrying Different Heterocyclic Moieties of Expected Pharmacological Interest. H.I. El-Subbagh, A.A. El-Emam, M.B. El Ashmawy and I.A. Shehata; *Arch. Pharm. Res.* 1990, 13, 24-27.
 92. Triazoles and Fused Triazoles III. Facile and Efficient Synthesis of 2,5-Disubstituted-*s*-triazolo[3,4-*b*]-1,3,4-thiadiazoles. A.A. El-Emam, M.A. Mostafa, H. I. El-Subbagh, M. B. El-Ashmawy; *Monatsh. Chem.* 1990, 121, 221-25.
 93. Comparative Study on the para-Metabolic Oxidation of Phenytoin and Decadeuteriophenytoin. M.A. Mostafa, A.A. El-Emam, H.I. El-Subbagh; *Arzneim.-Forsch./Drug Res.* 1990, 40, 10, 1076-78.
 94. Synthesis of Substituted 4*H*-Thieno[2,3-*b*][1]benzothiopyran-4-ones as Possible Schistosomicidal Agents. M.M. El-Kerdawy, A.A. El-Emam, H.I. El-Subbagh and E. Abushanab; *Monatsh. Chem.* 1990, 121, 45-50.
 95. Synthesis and Biological Testing of Certain 2-(5-Substituted-2-thienylthio)-benzoic acid Derivatives. A. S. Tantawy, H.I. El-Subbagh, M.B. El-Ashmawy, and A. A. El-Emam; *IL Farmaco* 1989, 44, 1217-24.
 96. Synthesis of Substituted 4*H*-Thiazolo[4,5-*b*][1]benzothiopyran-4-ones as Possible Schistosomicidal Agents. M. M. El-Kerdawy, A. A. El-Emam, H. I. El-Subbagh and E. Abushanab; *Monatsh. Chem.* 1989, 120, 991-95.
 97. Synthesis of 2-Substituted 4*H*-Thieno[2,3-*b*][1]benzothiopyran-4-ones as Potential Chemotherapeutic Agents. H. I. El-Subbagh, M. Y. Yousif, A. A. El-Emam and M. M. El-Kerdawy; *Arch. Pharm. Res.* 1989, 12, 135-37.
 98. Synthesis of Certain Arylazothioxanthenes as Potential Schistosomicidal Agents. M. M. El-Kerdawy, A.A. El-Emam, H.I. El-Subbagh and E. Abushanab; *Arch. Pharm. Res.* 1989, 12, 5-7.
 99. Synthesis of Certain Substituted Pyrimidines as Potential Schistosomicidal Agents."M.M. El-Kerdawy, A.A. El-Emam, H.I. El-Subbagh and E. Abushanab; *J. Heterocyclic Chem.* 1989, 26, 913-15.
 100. Synthesis of Certain Thioxanthenes as Potential Schistosomicidal Agents. M. M. El-Kerdawy, A.A. El-Emam and H.I. El-Subbagh; *Arch. Pharm. Res.* 1986, 9, 25-28.

B) Patents:

- 1. European Patent.** EP 2 592 085 B1, July 2016. Thiazolo[3,2-*a*][1,3]diazepine derivatives and pharmaceutical compositions containing the same as novel anticonvulsant agents and method for their preparation. Sara T. A. Al-Rashood, Hussein I. El-Subbagh, Ghada S. Hassan, Kamal E. H. El-Taher, Mohamed A. Al-Omar.
- 2. Saudi Patent.** SA 4385, October 5, 2015. Quinazolinone analogues for use as anticonvulsant agents. Huda S. A. Al-Salem, Hussein I. El-Subbagh, Kamal E. H. El-Taher, Gehan H. Hegazy, Abdulrahman M. Al-Obaid.
- 3. Saudi Patent.** SA 4049, July 7th 2015. Pharmaceutical composition containing neuromuscular blocker or skeletal muscle relaxant, and method for the preparation. Adel S. Al-Azab, Hussein I. El-Subbagh, Khalid A. Al-Rashood, Kamal E. H. El-Taher, Mohamed A. Al-Omar, Ghada S. Hassan, Fatmah A. Al-Omary, Alaa A.-M. Abdelaziz, Mohamed A. Hefnawy.
- 4. Saudi Patent.** SA 4048, July 1st 2015. Pharmaceutical compositions containing hypnotic or anesthetic agent and method for their preparation. Ghada S. Hassan, Hussein I. El-Subbagh, Mohamed A. Al-Omar, Kamal E. H. El-Taher, Khalid A. Al-Rashood, Abdulrahman M. Al-Obaid, Adel S. Al-Azab, Alaa A.-M. Abdelaziz, Fatmah A. Al-Omary, Mohamed M. Hefnawy.
- 5. European Patent.** EP 2 740 727 B1, June. 2014. Quinazolinone analogues for use as anticonvulsant agents. Huda S. A. Al-Salem, Hussein I. El-Subbagh, Kamal E. H. El-Taher, Gehan H. Hegazy, Abdulrahman M. Al-Obaid.
- 6. European Patent.** EP 2 514 753 B1, Aug. 2013. **WIPO** 2012/136356 A1, **U.S. Patent** US 8,741,893 B2, Jun. 03, 2014. “6,7-Dihydro-[1,3,4]thiadiazolo-[3,2-*a*][1,3]diazepin derivatives and pharmaceutical compositions containing the same as hypnotic or anesthetic agent and method for their preparation.” Ghada S. Hassan, Hussein I. El-Subbagh, Mohamed A. Al-Omar, Kamal E. H. El-Taher, Khalid A. Al-Rashood, Abdulrahman M. Al-Obaid, Adel S. Al-Azab, Alaa A.-M. Abdelaziz, Fatmah A. Al-Omary, Mohamed M. Hefnawy.
- 7. European Patent.** EP 2 514 754 B1, Aug. 2013. **WIPO** 2012/136385 A1, **U.S. Patent** US 8,846,665 B2, Sept. 30, 2014. “6,7-Dihydro-[1,3,4]thiadiazolo-[3,2-*a*][1,3]diazepin derivative and pharmaceutical composition containing the same as neuromuscular blocker or skeletal muscle relaxant, and method for the preparation.” Adel S. Al-Azab, Hussein I. El-Subbagh, Khalid A. Al-Rashood, Kamal E. H. El-Taher, Mohamed A. Al-Omar, Ghada S. Hassan, Fatmah A. Al-Omary, Alaa A.-M. Abdelaziz, Mohamed A. Hefnawy.
- 8. German Patent.** DE 103 20 732 A1, Dec. 9, 2004. “Rapid-acting anesthetics with short duration of action, especially useful during surgical intervention, comprises thiazolo-[3,2-*a*][1,3]-diazepine-3-carboxylic acid derivatives.” J. Lehmann, H.I. El-Subbagh, H.A. El-Kashef.
- 9. U.S. Patent.** Dec. 24, 1996, 5-587-494. “Practical, Cost-Efficient Chiral Synthesis of Dihydrospingosines” R.P. Panzica, H.I. El-Subbagh and E. Abushanab.

C) Reviews:

1. Role of Molybdenum Hydroxylases in diseases. M.A. Al-Omar, H.I. El-Subbagh, C. Beedham, J. Smith, *Saudi Pharm. J.*, 2005, 13, 1-13.
2. Molecular Shape Analysis for Quantitative Drug Design. M.A. Mahran, H.I. El-Subbagh and A.M. Al-Obaid, *Saudi Pharm. J.*, 1999, 7, 159-172.
3. Drugs as Enzyme Accelerators. H.I. El-Subbagh; *Saudi Pharm. J.*, 1998, 6, 171-193.

D) Dataset:

1. Crystal structure of 2-(4-(4-bromophenyl)-thiazol-2-yl)isoindoline-1,3-dione. Hazem A. Ghabbour, Adnan A. Kadi and Hussein I. El-Subbagh. *Z. Kristallogr. NCS* 2016, 231, 853-854.
2. 1-(5-Bromo-4-phenyl-1,3-thiazol-2-yl)pyrrolidin-2-one. Hazem A. Ghabbour, Adnan A. Kadi, Hussein I. El-Subbagh, Tze Shyang Chia and Hoong-Kun Fun. *Acta Crystall. Sec. E.* 2012, E68, o1738–o1739.
3. N-[4-(4-Bromophenyl)thiazol-2-yl]-4-(piperidin-1-yl)butanamide. Hazem A. Ghabbour, Adnan A. Kadi, Hussein I. El-Subbagh, Tze Shyang Chia and Hoong-Kun Fun. *Acta Crystall. Sec. E.* 2012, E68, o1665.
4. S-Phenyl 4-methoxybenzothioate. Adel S. El-Azab, Alaa A.-M. Abdel-Aziz, Hussein I. El-Subbagh, Suchada Chantrapromma and Hoong-Kun Fun. *Acta Crystall. Sec. E.* 2012, E68, o1074–o1075.
5. 3-Benzyl-6-methyl-2-sulfanylidene-2,3-dihydro-quinazolin-4(1H)-one. Rashad Al-Salahi, Mohamed Al-Omar, Hussein El-Subbagh, Madhukar Hemamalini and Hoong-Kun Fun. *Acta Crystall. Sec. E.* 2012, E68, o717–o718.

E) Book Chapters:

1. H.I. El-Subbagh and A.A. Al-Badr, "Cytarabine: Comprehensive Profile" a monograph in "*Profiles of Drug Substances, Exipients and Related Methodology*" series, H.G. Brittain, editor, Academic Press, Burlington. 2009, 34, 37-113.
2. A.A. Al-Badr and H.I. El-Subbagh, "Itraconazole: Comprehensive Profile" a monograph in "*Profiles of Drug Substances, Exipients and Related Methodology*" series, H.G. Brittain, editor, Academic Press, Burlington. 2009, 34, 193-264.
3. A. Al-Majed, F. Belal, S. Julkhuf, and H. El-Subbagh, "Penicillamine: Physical Profile" a monograph in "*Profiles of Drug Substances, Exipients, and Related Methodology*" series, H.G. Brittain, editor, Academic Press, N.Y. 2005, 32, 119-130.
4. A.A. Al-Badr and H.I. El-Subbagh, "Analytical Profile of Histamine" a monograph in "*Analytical Profiles of Drug Substances and Exipients*" series, H.G. Brittain, editor, Academic Press, N.Y. 2001, 27, 159-264.
5. J. Al-Zehouri, H.I. El-Subbagh and A.A. Al-Badr, "Analytical Profile of Lansoprazole" a monograph in "*Analytical Profiles of Drug Substances and Exipients*" series, H.G. Brittain, editor, Academic Press, N.Y. 2001, 28, 1-35.
6. F. Belal, A. Al-Badr, A. Al-Majed and H.I. El-Subbagh, "Isoxsuprine Hydrochloride" a monograph in "*Analytical Profile of Drug Substances and Exipients*" series, H.G. Brittain, editor, Academic Press, N.Y. 1999, 26, 359-393.

7. H.I. El-Subbagh and A.A. Al-Badr, "Praziquantel" a monograph in "*Analytical Profile of Drug Substances and Exipients*" series, H.G. Brittain, editor, Academic Press, N.Y. 1998, 25, 463-500.

F) Books:

1. H.I. El-Subbagh, A.M. Al-Obaid, editors, "*A Comprehensive Introduction to Medicinal and Pharmaceutical Chemistry*" Al Rushd Bookstore for Pub. & Dist., Riyadh, SA. 2006.
2. H.I. El-Subbagh, M.A. Al-Omar, R.A. Gad-Kariem, "*Practical Pharmaceutical Chemistry– Selected Topics and Experiments*" Al Rushd Bookstore for Pub. & Dist., Riyadh, SA. 2005.

G) Translations:

1. Reviewing the translations of the submitted patents "**King Abdulaziz City for Science & Technology**, Riyadh Saudi Arabia.
2. Translation of "An Introduction of Medicinal Chemistry" G. Thomas, Wiley & Sons Ltd. West Sussex, England. A course book for Department of Pharmaceutical Chemistry, College of Pharmacy, KSU. **The Translation Center**, KSU.

RESEARCH INTERESTS:

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, viral diseases and CNS active agents..

Scopus preview**El-Subbagh, Hussein I**

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Documents: 103**Citations: 2204** total citations by **1652** documents**h Index: 26****Co-authors: 142****Google Scholar****Hussein I. El-Subbagh,**

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Documents: 125**Citations: 2894** total citations**h Index: 29****Revised, Feb 2019.**