

Curriculum Vitae

Hanan Hanna Georgey

Professor of Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University and Faculty of Pharmacy and Drug technology, Egyptian Chinese University



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SUMMARY:

Professor of Pharmaceutical Chemistry with over twenty five years in research and teaching. Thoroughly understands the learning process and works hard to adapt methods and use various teaching styles. Innovative and adaptable training and education professional seeking advanced position in a University setting. Committed Professor specializing in delivering quality instruction in a variety of courses, including undergraduate and postgraduate.

Interested in the design and synthesis of small molecules of biological interest. Active molecules acting on various therapeutic targets and possessing a diversity of biological activities e.g. anticancer, anti-inflammatory, analgesic, and antibacterial activities were developed. Molecular modeling techniques assisting drug design and binding modes of bioactive molecules to biological targets were employed e.g. pharmacophore search, docking study, 2D-QSAR, homology modeling,..etc. *In vitro* studies on some biological targets were conducted such as studies on COX enzymes and PI3K enzymes.

EDUCATION:

- *Ph. D.* in Pharmaceutical Sciences (Pharmaceutical Chemistry), April 2001, Faculty of Pharmacy, Cairo University, entitled: "*Synthesis of Certain Anthranilate and Imidazoquinazolone Derivatives*".
- *M. Sc.* in Pharmaceutical sciences (Pharmaceutical Chemistry), January 1998, Faculty of Pharmacy, Cairo University, entitled: "*Synthesis of Some Acridine Carboxylic Acid Derivatives*".
- *B. Sc.* Pharmacy and Pharmaceutical Sciences, Cairo University (excellent hons., 2nd place on the honor list), May 1991.

POSITIONS:

- Professor and Head of Pharmaceutical Chemistry Department, Faculty of Pharmacy and Drug technology, Egyptian Chinese University from September 2021 till now.
- Professor in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Heliopolis University from February 2020 till August 2021.
- Professor in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University from October 2014 till -January 2020.
- Associate Professor in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University from July 2009 till 2014.
- Lecturer in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University from May 2001 till 2009.
- Assistant Lecturer in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University from February 1998 till May 2001.
- Demonstrator in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University from March 1992 till February 1998.

TEACHING EXPERIENCES

Undergraduate programs

At Heliopolis University

- Course coordinator of Medicinal Chemistry 1(3153), Medicinal Chemistry 2 (3163), Drug Design of Natural Products (3285), and Drug Design and Discovery (3193), February 2020 - till now.

At Cairo University

- Course coordinator of Pharmaceutical Chemistry III (course 803) for fifth year students 2015- 2019.
- Course coordinator of Pharmaceutical Chemistry II (802) for fourth year students 2014-2015.
- Participated in teaching and supervising of the theoretical and practical courses of Pharmaceutical Chemistry II (course 802) for fourth year students, 2012-2013, 2013-2014.
- Participated in teaching and supervising of the theoretical and practical courses of Pharmaceutical Chemistry I (course 801) for fourth year students, from 2006 till 2012.
- Participated in teaching of Drug design, Clinical Pharmacy program (PCE11) Summer course 2010- 2012, 2011-2012.
- Participated in teaching and supervising the theoretical and practical courses of Pharmaceutical Chemistry to the undergraduate students of the clinical pharmacy program (semester 5; PC 509) fall 2008-2009.
- Medical advisor for clinical Pharmacy student, first year 2009-2010.
- Participated in teaching and supervising the theoretical and practical courses of Pharmaceutical Chemistry to the undergraduate students of the third year from 2002 till 2006
- Participated in teaching of the practical courses of Pharmaceutical Chemistry to the undergraduate students of the third and fourth year from 1992 till 2001.
- Supervising the summer trainings of undergraduate students from summer 2003 till 2019.

At Egyptian Russian University (Part time)

- Participated in teaching and supervising of the theoretical and practical courses at Egyptian Russian University, 2018-2019

At Ain Shams University (Part time)

- Supervising the practical courses of Pharmaceutical Chemistry to undergraduate students of the fourth year in Ain Shams University, 2003-2004, 2004-2005 and 2005-2006.

Postgraduate programs

At Cairo University

- Participated in teaching the Diploma of Drug Discovery courses (Pharmaceutical Chemistry), from 2016 till 2019
- Participated in teaching the M. Sc. degree course in Pharmaceutical Sciences (Pharmaceutical Chemistry) from 2002 till 2020

At Beni-Suef University (Part time)

- Participated in teaching of M. Sc. degree course in Pharmaceutical Sciences (Pharmaceutical Chemistry); Spectroscopic and Chromatographic Studies in Pharmaceutical Chemistry (I), 2012-2013.

SCIENTIFIC ACTIVITIES

Publications

- 1- Design, synthesis and anti-Mycobacterium tuberculosis evaluation of new thiazolidin-4-one and thiazolo[3,2-a][1,3,5]triazine derivatives. Mohamed H. Younis, Eman R. Mohammed, Abdalla R. Mohamed, Marwa M. Abdel-Aziz, **Hanan H. Georgey**, Nagwa M. Abdel Gawad. Bioorg. Chem. 124 (2022) 105807
- 2- Design and synthesis of ciprofloxacin-sulfonamide hybrids to manipulate ciprofloxacin pharmacological qualities: Potency and side effects. Noha M. Ibrahim, Samar H. Fahim, Mariam Hassan, Awatef E. Farag, **Hanan H. Georgey**. Eur. J. Med. Chem. 228 (2022) 114021.
- 3- Bacterial virulence factors: a target for heterocyclic compounds to combat bacterial resistance. Rehab H. Abd El-Aleam, Riham F. George, **Hanan H. Georgey** and Hamdy M. Abdel-Rahman. RSC Adv., 11 (2021) 36459
- 4- Synthesis, in vitro anticancer **activity** and in silico studies of certain pyrazole-based derivatives as potential inhibitors of cyclin dependent kinases (CDKs). Esraa Z. Mohammed, Walaa R. Mahmoud, Riham F. George, Ghaneya S. Hassan, Farghaly A. Omar, **Hanan H. Georgey** Bioorg. Chem. 115 (2021) 105253
- 5- Design and synthesis of novel 4-fluorobenzamide-based derivatives as promising anti-inflammatory and analgesic agents with an enhanced gastric tolerability and COX-inhibitory activity. Peter A. Halim, **Hanan H. Georgey**, Mina Y. George, Ahmed M. El Kerdawy, Mona F. Said, Bioorg. Chem. 116 (2021) 105347.
- 6- Nanomolar potency of imidazo[2,1-b]thiazole analogs as indoleamine 2,3-dioxygenase inhibitors. Menna A. Ewida, Heba A. Ewida, Mahmoud S.

- Ahmed , Heba Abdelrasheed Allam, Ramzia I. ElBagary, Riham F. George, **Hanan H. Georgey**, Hussein I. El-Subbagh, Arch. Der. Pharm.354(2021) 2100202
- 7- 3-Methyl-imidazo[2,1-b]thiazole derivatives as a new class of antifolates: Synthesis, in vitro/in vivo bio-evaluation and molecular modeling simulations. Menna A. Ewida , Heba A. Ewida , Mahmoud S. Ahmed , Heba Abdelrasheed Allam, Ramzia I. ElBagary, Riham F. George, **Hanan H. Georgey**, Hussein I. El-Subbagh, Bioorg. Chem. 115 (2021) 105205
 - 8- Synthesis and computational studies of novel fused pyrimidinones as a promising scaffold with analgesic, anti-inflammatory and COX inhibitory potential. Mona F. Said, **Hanan H. Georgey**, Eman R. Mohammed. Eur. J. Med. Chem. 224 (2021) 113682.
 - 9- Mechanistic selectivity investigation and 2D-QSAR study of some new antiproliferative pyrazoles and pyrazolopyridines as potential CDK2 Inhibitors. Ghaneya S. Hassan, **Hanan H. Georgey**, Esraa Z. Mohammed, Riham F. George, Walaa R. Mahmoud, Farghaly A. Omar. Eur. J. Med. Chem 218 (2021) 113389.
 - 10- Design, synthesis and in silico insights of new 7,8-disubstituted-1,3-dimethyl-1H-purine-2,6(3H,7I)-dione derivatives with potent anticancer and multi kinase inhibitory activities. Abdalla R. Mohamed, Ahmed M. El Kerdawy, Riham F. George, **Hanan H. Georgey**, Nagwa M. Abdel Gawad. Bioorg. Chem. 107 (2021) 104569
 - 11- Anti-hepatitis-C virus activity and QSAR study of certain thiazolidinone and thiazolotriazine derivatives as potential NS5B polymerase inhibitors. Ghaneya S.Hassan, **Hanan H. Georgey**, EsraaZ.Mohammed, Farghaly A. Omar. Eur. J. Med. Chem 184 (2019) 111747
 - 12- 1,2,4-Trisubstituted imidazolinones with dual carbonic anhydrase and p38mitogen-activated protein kinase inhibitory activity. **Hanan H. Georgey**, Fatma M. Manhi, Walaa R. Mahmoud, Nehad A. Mohamed, Emanuela Berrino, Claudiu T. Supuran. Bioorg. Chem. 82 (2019) 109–116
 - 13- Identification of some benzoxazepines as anticancer agents inducing cancer cell apoptosis. Mohamed S Rashad, **Hanan H Georgey**, Riham F George & Nagwa M Abdel-Gawad. Future Med. Chem. 10(14), 1649–1664(2018).
 - 14- Construction of some cytotoxic agents with aurone and furoaurone scaffolds. Ghaneya S Hassan, **Hanan H Georgey**, Riham F George & Eman R Mohammed. Future Med. Chem. 10(1), 27–52 (2018).
 - 15- Identification of some novel xanthine-based derivatives with bronchodilator activity. Abdalla R Mohamed, **Hanan H Georgey**, Riham F George, Wafaa I El-Eraky, Dalia O Saleh & Nagwa M Abdel Gawad. Future Med. Chem. 9(15), 1731–1747 (2017).
 - 16- Synthesis, biological evaluation and molecular modeling study of new (1,2,4-triazole or 1,3,4-thiadiazole)-methylthio-derivatives of quinazolin-4(3H)-one as DHFR inhibitors. Yomna I. El-Gazzar, **Hanan H. Georgey**, Shahenda M. El-Messery, Heba A. Ewida, Ghada S. Hassan, Marwa M. Raafat, Menna A. Ewida, Hussein I. El-Subbagh. *Bioorg. Chem.* 72, 282-292 (2017).
 - 17- Synthesis and molecular docking of new imidazoquinazolinones as analgesic agents and selective COX-2 inhibitors. Hassanein H. Hassanein, **Hanan H. Georgey**, Marwa A. Fouad, Ahmed M. El Kerdawy, Mona F. Said. *Future Med. Chem.* 9(6),553-578 (2017).

- 18- Design and synthesis of potent 1,2,4-trisubstituted imidazolinone derivatives with dual p38aMAPK and ERK1/2 inhibitory activity. Fadi M. Awadallah, Sahar M. Abou-Seri, Mohamed M. Abdulla, **Hanan H. Georgey**. *Eur. J. Med. Chem.* 94, 397-404 (2015).
- 19- Synthesis of novel substituted quinazoline and quinazolin-4(3H)-one derivatives of expected antitumor activity. Ghaneya S. Hassan, **Hanan H. Georgey**, Nashwa A. Ibrahim and Shimaa S. Zakib. *Der Pharm. Chem.* 7(7),106-119 (2015)
- 20- Synthesis, Cytotoxic Activity and 2D-QSAR Study of Some Imidazoquinazoline Derivatives. **Hanan Georgey**. *Molecules* 19, 3777-3792 (2014).
- 21- Synthesis of novel 1,3,4-trisubstituted pyrazoles as anti-inflammatory and analgesic agents. Fatma A. Ragab, Nagwa M. Abdel Gawad, **Hanan H. Georgey** , Mona F. Said. *Eur. J. Med. Chem.* 63, 645-654 (2013).
- 22- Synthesis, Anti-inflammatory, Analgesic, Quantitative Structure–Activity Relationship and in Vitro Studies. Fatma A. Ragab, Nagwa M. Abdel Gawad, **Hanan H. Georgey**, Mona F. Said. *Chem. Pharm. Bull.*, 61(8), 834–845 (2013).
- 23- Synthesis and antitumor activity of certain 2,3,6-trisubstituted quinazolin-4(3H)-one derivatives. Safinaz E. Abbas, Flora F. Barsoum, **Hanan H. Georgey**, Eman R. Mohammed. *Bulletin of Faculty of Pharmacy, Cairo University* 51, 273–282 (2013).
- 24- Novel 1,3,4-heterodiazole analogues: Synthesis and in-vitro antitumor activity. Azza T. Taher, **Hanan H. Georgey**, Hussein I. El-Subbagh. *Eur. J. Med. Chem.* 47, 445-451 (2012).
- 25- Design and synthesis of some pyrazole derivatives of expected anti-inflammatory and analgesic activities. Nagwa M. Abd-El Gawad, Ghaneya S. Hassan, **Hanan H. Georgey**. *Med. Chem. Res.* 21, 983–994 (2012).
- 26- Synthesis of Novel Pyrazole and Dihydropyrazoles Derivatives as Potential Anti-inflammatory and Analgesic Agents. Nagwa M. Abd-El Gawad, **Hanan H. Georgey**, Nashwa A. Ibrahim, Noha H. Amin, Rania M. Abdelsalam. *Arch. Pharm. Res.* 35(5), 807-821 (2012).
- 27- Benzoxepin derivatives: design, synthesis, and pharmacological evaluation with sedative–hypnotic effect. Nagwa M. Abdel Gawad, Ghaneya S. Hassan, **Hanan H. Georgey**, Hesham Y. El-Zorba. *Med. Chem. Res.* 21, 747–759 (2012).
- 28- Design, synthesis, and anticonvulsant activity of novel quinazolinone analogues. Nagwa M. Abdel Gawad, Hanan Hanna Georgey, Riham M. Youssef, Nehad A. El Sayed. *Med. Chem. Res.* 20, 1280–1286 (2011).
- 29- EGFR tyrosine kinase targeted compounds: synthesis, docking study, and in vitro antitumor activity of some new quinazoline and benzo[d]isothiazole derivatives. Kamelia M. Amin, **Hanan H. Georgey**, Fadi M. Awadallah. *Med. Chem. Res.* 20, 1042–1053 (2011).
- 30- Synthesis and antitumor activity of some 2, 3-disubstituted quinazolin-4(3H)-ones and 4, 6- disubstituted- 1, 2, 3, 4-tetrahydroquinazolin-2H-ones. Nagwa M. Abdel Gawad, **Hanan H. Georgey**, Riham M. Youssef, Nehad A. El-Sayed. *Eur. J. Med. Chem.* 45, 6058-6067 (2010).
- 31- New Quinazolinone Derivatives: Synthesis, Anti-inflammatory and Antitumor Activities. Safinaz E. Abbas, Nagwa M. Abdel Gawad, **Hanan H. Georgey**, Jalal H. Abdullah. *Int. J. Chem. Tech Res.* 2 (3), 1560-1577 (2010).

- 32- Anti-inflammatory Activity and PGE₂ Inhibitory Properties of Novel Phenylcarbamoylmethyl Ester-Containing Compounds. Flora Barsoum, **Hanan Georgey**, Nagwa Abdel-Gawad. *Molecules* 14, 667-681(2009).
- 33- Synthesis and Pharmacological Screening of Certain Imidazoquinazolone Derivatives. Fatma A. Ragab, Hassanein H. Hassanein, Enayat I. Aly and **Hanan H. Georgey**. *Bull. Pharm. Sci., Assiut University* 31(1), 29-48 (2008).
- 34- Synthesis and Anticonvulsant Activity of Some Quinazolin-4-(3H)-one Derivatives. **Hanan Georgey**, Nagwa Abdel-Gawad, Safinaz Abbas. *Molecules* 13, 2557-2569 (2008).
- 35- Synthesis and Anti-inflammatory Activity of Some Imidazol-5(4H)-one Derivatives. Hassanein H. Hassanein, **Hanan H. Georgey**. *Bull. Fac. Pharm. Cairo Univ.*, 46, 91-102, (2008).
- 36- Synthesis of Certain Pyrazolo[3,4-d]yrimidine Derivatives of Potential Anti-inflammatory Activity. Safinaz E. Abbas, **Hanan H. Georgey**, Shimaa M. Abdelrahman, Gamil M. El-Taliawi. *Bull. Pharm. Sci., Assiut University*, 31(2), 197-214, (2008).
- 37- Design and Synthesis of certain Imidazo[1,5-a] quinazolin-5(4H)-ones of Anticipated Anticonvulsant activity. **Hanan H. Georgey**. *Egypt J. Chem.*, 50(4), 455-472 (2007).
- 38- Synthesis and Antineoplastic activity of certain triazene and triazeno-acridine combilexin derivatives. Samir.M. E. Aly, **Hanan H. Georgey**, Mohammed A. Mohammed, Nagwa M. Abdel Gawad, Noha H. Amin. *Bull. Pharm. Sci., Assiut University*, 30(2), 89-110 (2007).
- 39- New fenamate analogs and imidazoquinazolone derivatives: Synthesis and Anti-inflammatory, Analgesic and Antipyretic activities. Hassanein H. Hassanein, Fatma A.Ragab, Enayat I.Aly, **Hanan H. Georgey**. *Alex. J. Pharm. Sci.*, 20(2), 129-136 (2006).

Supervision of Thesis:

- Supervised on more than 30 M.Sc. and Ph.D. theses

Conferences:

- Membership in the Scientific Conference of Faculty of Pharmacy, MSA University. December 12-13th, 2020. Under the theme of: **“Pharmacists in Frontlines New Challenges and innovative Solutions”**.
- Membership in the 2nd Scientific Conference of Faculty of Pharmacy, Cairo University. April 26th, 2010. Under the theme of: **“Quality Assurance in Pharmacy Education”**.
- Membership in the FUE (Future University in Egypt), International conference on Pharmaceutical Technologies. February, 6th – 9th, 2012.
- Membership in the 2st scientific conference of Faculty of pharmacy, Cairo University, 26 April 2010.
- Organizing member at the 1st scientific conference of Faculty of pharmacy, Cairo University on Pharmacy Role in Community Health Promotion", Faculty of Pharmacy, Cairo University, March 29th, 2008.
- Membership in the 2nd International conference on chemical industries: Role and Future Aspects in National Research Centre, Cairo, 21-23 November 2006

Roles as a reviewer:

- Reviewer in the following international journals:
 - 1- European Journal of Medicinal Chemistry.
 - 2- Journal of Heterocyclic Chemistry.
 - 3- Medicinal Chemistry Research.
 - 4- Phosphorus, Sulfur, and Silicon and the Related Elements
 - 5- Molecules.
 - 6-European Journal of Chemistry
 - 7-International Journal of Medicinal Chemistry
 - 8- Letters in Drug Design & Discovery
 - 9-Bulletin of Faculty of Pharmacy, Cairo University
 - 10-Central Nervous System Agents in Medicinal Chemistry.
 - 11- Bioorganic Chemistry.
 - 12- Future Journal of Pharmaceutical Sciences
 - 13-Journal of Molecular Structure.
- Evaluator of research project in Latvian Science Council.
- Reviewer in Scientific E-book.

ADMINISTRATIVE WORK:

At Heliopolis University

- Head of the Integrative Research Project committee, from April 2021-till now.
- Head of the Internship Committee, from February 2020-till now.
- Member of the Integrative Health Centre committee, from September 2020 till now.
- Responsible for the teaching and learning academic reference standards, from September 2020 till now.
- Member of the Directors Board of the Quality Assurance Unit, from September 2020 till now.

At Cairo University

- Member of the Research Ethics committee, from October 2016- January 2020.
- Member of the committee on libraries, 2012-2013.
- Member of the Scientific committee on the Faculty Journals, 2012-2013.
- Coordinator of the Performance Appraisal and Quality Assurance Unit (PAQU) in Pharmaceutical Chemistry Department for the postgraduate courses, 2009-2010, 2010-2011.
- Coordinator of the Performance Appraisal and Quality Assurance Unit (PAQU) in Pharmaceutical Chemistry Department for the undergraduate courses, 2006-2007.

TRAINING COURSES AND WORKSHOPS:

- A workshop under the supervision “MSA University”, on: "**Marketing in Pharmaceutical Companies**", 13/12/2020.
- workshop under the supervision “MSA University”, on: "**MS-based metabolomics applications in Pharmacy**", 12/12/2020.

- A workshop under the supervision “DAAD”, on: "**Interactive Lectures**", 20/3/2014.
- Workshop under the supervision of Continuous Improvement and Qualifying for Accreditation Project “CIQAP”, Cairo University on "**Computer Aided Drug Design Using Molecular Modeling Programs**" 10/10/2010 - 11/10/2010.
- Training Courses of Faculty and Leadership Development Center (FLDC), Cairo University:
 1. Exams and Students Evaluation System, 10/2/2014-11/2/2014.
 2. Legal and Financial aspects in University Environment, 8/2/2014- 9/2/2014.
 3. University Code of Ethics, 11/2/2013-13/2/2013.
 4. Communication Skills, 11/6/2012- 13/6/2012.
 5. The Credit Hour Systems, 30/1/2012- 1/2/2012.
 6. Research Ethics, 23/5/2011- 25/5/2011.
 7. Design a Research Project, 13/11/2006- 15/11/2006.
 8. Course Design, 7/5/2006- 8/5/2006.
 9. Quality Assurance and Accreditation, 2/4/2006- 3/4/2006.
 10. Use of Technology in Education, 3/9/2005- 6/9/2005.
 11. Effective Presentation Skills, 24/7/2005- 27/7/2005.
 12. Managerial skills, 16/7/2005- 19/7/2005.
- Staff member 1 (basic concepts of IT, using computer and managing files, word processing, spreadsheets, introduction to PC maintenance and protection) (2008).
- Training courses at quality Assurance and Accreditation Center, Faculty of Pharmacy, Cairo University.
- Training courses in computer (1997).

AWARDS:

- Cairo University Award for International Publication, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019.
- Certificate of Appreciation from the Faculty of Pharmacy, Cairo University to contribute to a research project by submitting a proposal to the Committee on interdisciplinary research projects presented by the Faculty “Interdisciplinary Research Grant (IRG)” in its first session in January 2012.
- Cairo University Award for International Publication, 2011.
- Cairo University Award for International Publication, 2010.
- Certificate of Appreciation from the Faculty of Pharmacy, Cairo University “The 2rd excellence week”. 2010.
- Cairo University Award for International Publication, 2009.

ACADEMIC SOCIETY MEMBERSHIP:

- Member of the Syndicate of Pharmacists.
- Member of the Egyptian Pharmaceutical Society.
- Member of staff members club of Cairo University.