

CURRICULUM VITAE



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PERSONAL DATA

- Date of Birth: April 25th, 1980.
- Place of Birth: Beni-Suef, Egypt.
- Nationality: Egyptian.

EDUCATION

- 1997- 2002** **B. Pharm. Sci.**, Faculty of Pharmacy, Cairo University (Beni-Suef Branch), Egypt
(Grade: Excellent with Honor).
- 2002- 2003** **Pre-requisite graduate courses towards the M.Sc., degree:** (with general grade very good), Faculty of Pharmacy, Cairo University, Academic year.
Pre-master Courses Include: (Biostatistics, English language, Computer science, Spectrophotometric studies, Drug Design, Special Topics in Pharmaceutical Chemistry, Stereochemical Aspects in Drug Action reagents and Reactions in Pharmaceutical Chemistry).
- 2003- 2007** **Master Degree** in pharmaceutical Sciences (Pharmaceutical Chemistry) Cairo University, Egypt. Thesis title, "*Molecular modeling and synthesis of some substituted Acridine derivatives of anticipated antitumor activity*"
- 2008- 2011** **Ph.D. Degree** in Pharmaceutical Science (Medicinal Chemistry) through a channel system between Beni-Suef University, Egypt and School of Pharmacy, University of Mississippi, USA (2008-2011). Thesis title, "*Design and synthesis of substituted heterocycles for the treatment of psychostimulant abuse* " under the supervision of **Professor Christopher R. McCurdy**, Professor of Medicinal chemistry and pharmacology.

TECHNICAL EXPERTISE

- Experience in the multistep organic synthesis of organic compounds and spectral characterization using advanced techniques such as NMR, Mass spectra, HPLC and IR.
- Familiar with molecular modeling programs including Discovery Studio, Sybyl, Schrodinger, Molegro Virtual Docker.
- Drug design approaches including ligand- and structure-based, docking and 3D-QSAR.
- Virtual screening techniques for discovery of new hits for many drug targets.
- Chemical modification of known polymers for new drug delivery systems.

RESEARCH AND PROFESSIONAL EXPERIENCE

TEACHING EXPERIENCE

2002-2007 **Demonstrator** (equivalent to U.S graduate research assistant), Department of Pharmaceutical Chemistry and Drug Design, Faculty of Pharmacy, Beni-Suef University,

- Teaching *Practical Pharmaceutical Chemistry* to 4th year and 5th year undergraduate pharmacy students.
- Responsibilities include preparing and giving some lectures of *Pharmaceutical Chemistry*.
- Acted as a liaison between 4th year and 5th year undergraduate pharmacy students and professors.

2007-2008 **Assistant lecturer**, Department of Pharmaceutical Chemistry and Drug Design, Faculty of Pharmacy, Beni-Suef University, Egypt.

- Teaching *Practical Pharmaceutical Chemistry* to 4th year and 5th year undergraduate pharmacy students.
- Responsible for the practical exams of *Pharmaceutical Chemistry course*.

2011- Current **Assistant Professor**, Department of Medicinal Chemistry and Drug Design, Faculty of Pharmacy, Beni-Suef University, Egypt.

- Teaching *Medicinal Chemistry* courses to 4th year and 5th year undergraduate pharmacy students.
- Responsible for the supervision on practical *Pharmaceutical Chemistry course and exams*.
- Teaching a *drug design* course of the clinical pharmacy program in our faculty.

2/2011- 8/2011 **Visiting Assistant Professor** – *Department of Medicinal Chemistry, Nahda University, Beni-Suef, Egypt.*

- Teaching undergraduate *Medicinal Chemistry* courses to 3th year and 4th year students.

2011- Current **Assistant professor**, Department of Pharmaceutical Chemistry, College of Pharmacy, Taif University, Taif, KSA.

- Teaching *Medicinal Chemistry* courses to 3th year undergraduate pharmacy students.
- Responsible for the supervision on practical *Pharmaceutical Chemistry course and exams*.
- Supervision on graduation projects.
- Member in Curriculum Development Committee, Quality Assurance Unit and Performance Evaluation Unit.
- Participation in Academic advising for the Pharmacy students.
- Member in drug design and discovery unit and cancer research unit.

RESEARCH EXPERIENCE

2002-2007 **Demonstrator**, Department of Pharmaceutical Chemistry and Drug Design, Faculty of Pharmacy, Beni-Suef, University, Egypt. I finished my master degree under the supervision of Prof. Dr. Samir El-Moghazy. The title of my thesis; “*Molecular modeling and synthesis of some substituted Acridine derivatives anticipated antitumor activity*”.

- Design and synthesis of some substituted Acridine derivatives.
- Biological testing for these compounds against a panel of cancer cell lines and we found eight of them had a significant anti-breast cancer activity.
- Characterization of the new synthesized compounds using spectral techniques.

2007-2008 **Assistant Lecturer**, Department of Pharmaceutical Chemistry and Drug Design, Faculty of Pharmacy, Beni-Suef University, Egypt.

- Design and synthesize of novel chemical entities derived from pyrazolopyrimidine heterocycle.
- Evaluation of these compounds as antimicrobial and anti-inflammatory agents.

2008-2011 **Visiting Scientist**, Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi, USA. I worked in Prof. Dr. Christopher R. McCurdy Laboratory to perform the experimental part of my Ph.D. thesis entitled “*Design and synthesis of substituted heterocycles for the treatment of psychostimulant abuse*”.

- Designed and synthesized a set of ligands that have a high affinity and selectivity for sigma receptor subtypes in order to find an effective treatment for psycho- stimulants abuse.
- Performed a 3D QSAR study using **PHASE** program implemented in *Schrodinger* suite to investigate the important structural features required for sigma receptor subtypes affinity and

selectivity. The developed two models also could be used later as a tool for discovery of new leads for sigma receptors with virtual screening technique.

- Enhancement of the metabolic stability and pharmacokinetics profile of our lead CM156 that has the most affinity and selectivity for sigma receptors.
- Design and synthesis of selective ligands for opioids and NPFF receptors.
- Design and synthesis of dimers based on a piperazine core as potential anti-inflammatory agents.
- Design and synthesis of novel spiro compounds as selective opioid kappa receptor ligands to be used as safe analgesics.

MEMBERSHIPS AND ACTIVITIES

2002-Present	Egyptian Syndicate of Pharmacists, Member
2002-present	Beni-Suef Syndicate of Pharmacists, Member
2009-Present	American Chemical Society (ACS), Member
2009-Present	American Association of Pharmaceutical Sciences (AAPS), Member
04- 09- 2010	Passed Foreign Graduate Equivalency Examination (FPGEE), American Board of Pharmacy

AWARDS

- Scholarship from the Egyptian Government to perform the practical part of my Ph.D under the supervision of Dr. Christopher R. McCurdy, Professor of Medicinal Chemistry and Pharmacology, School of Pharmacy, University of Mississippi, USA (2008-2010)
- The best poster award from the 8th Dubai International Conference for Medical Sciences, 16-17 December, 2014, Dubai, United Arab Emirates.

SOFTWARE AND COMPUTATIONAL SKILLS

- Microsoft Office
- ChemBioOffice
- MestReNova
- SciFinder
- Schrodinger suite
- Discovery Studio suite
- Sybyl suite
- Molegro Virtual Docker
- ACDlab
- PharmMapper server

MEETINGS AND CONFERENCES

- 1- The National center for natural products Research annual poster session held at the University of Mississippi, University, MS 38677, October **2008**.
- 2- *MALTO* meeting held at Memphis, TN, May **2009**.
- 3- The National center for natural products Research annual poster session held at the University of Mississippi, University, MS 38677, October **2009**.
- 4- 239th *American Chemical Society (ACS)* National Meeting, San Francisco, CA. March **2010**.
- 5- *MALTO* meeting held at Memphis, TN, May **2009**.
- 6- The National center for natural products Research annual poster session held at the University of Mississippi, University, MS 38677, October **2010**.
- 7- The second annual symposium “*Recent Advances in Pharmaceutical Research*” Faculty of Pharmacy, Beni-Suef University, Egypt, January **2011**.
- 8- The 1st International scientific meeting “*Emerging Molecular Targets In Cancer Therapy And Drug Development From Research Labs To Pharmaceutical Industries*”. College of pharmacy in collaboration with vice presidency of bussinus and innovation, Umm Al-Qura University, KSA, March **2013**.
- 9- The 8th Dubai International Conference for Medical Sciences, 16-17 December, **2014**, Dubai, United Arab Emirates.

WORKSHOPS

- “*Innovation in Teaching Health Sciences: From Words to Action*”. College of pharmacy, Taif University in collaboration with College of Education, Purdue University, **USA**, March **2012**.
- “*Quality Requirements in E-Learning and Learning Management Systems*”. British council & Taif University, **KSA**, March **2012**.
- “*Key Performance Indicators (KPIs) and Benchmarks*”. National Commission for Academic Accreditation and Assessment (NCAAA), Taif University, **KSA**, May **2012**.
- “*How to Write & Publish a Scientific Paper*”. The Staff Development Committee, College of pharmacy, Taif University, **KSA**, December **2013**.

- “*Statistical Analysis Using SPSS*”. The Staff Development Committee, College of pharmacy, Taif University, **KSA**, December **2014**.
- “*Recent Advances in Chemistry and Biology of Natural Product*”. Faculty of Pharmacy, Faculty of Science and STDF, Beni-Suef University, **Egypt**, August **2014**.
- “*Applications of Citation Manager Software EndNote*”. The Staff Development Committee, College of pharmacy, Taif University, **KSA**, March **2015**.

FUNDED RESEARCH PROJECTS

- **PI** in “*Novel Thymoquinone derivatives as Potential Anti-Cancer Agents: Design, Synthesis and Biological Screening*”. Grant of (**80,000SR**) from Deanship of Graduate Studies and Research, University of Taif, **KSA**. **2014**.
- **PI** in “*Design, Synthesis and Biological Evaluation of Novel Cyclooxygenase Inhibitors for the Potential Treatment of Colorectal Cancer*”. Grant of (**80,000SR**) from Deanship of Graduate Studies and Research, Taif University, **KSA**. **2013**.
- **CO-PI** in “*The Ability of Novel Energy Restriction Mimetic Agents to Target Colorectal Cancer*”. Grant of (**107,000 SR**) from Deanship of Graduate Studies & Research, Taif University, **KSA**. **2013**.
- **CO-PI** in “*Recent approach in cancer treatment: Design, synthesis and biological evaluation of novel pyrrolizine derivatives as potential multi-target kinase inhibitors.*”. Grant of (**2,000,000 SR**) from King Abdulaziz City for Science and Technology, **KSA**, **2014**. (*Accepted*)
- **PI** in “*Design, Synthesis and Biological Evaluation of Novel Benzo[4,5]thiazolo[2,3-c][1,2,4]triazole Derivatives as Potential Anticancer Agents*”. Submitted to Deanship of Graduate Studies & Research, Taif University, **KSA**. **2014**.
- **CO-PI** in “*Design and Synthesis of Novel Chromone Derivatives as Potential Anticancer Agents*”. Submitted to Deanship of Graduate Studies & Research, Taif University, **KSA**. **2014**.

PROFESSIONAL SERVICES: REVIEWING AND REFEREEING ACTIVITIES

- Frequently invited to review many articles for the following international journals, funding organization and publishers:
 - *European Journal of Medicinal Chemistry*
 - *Medicinal Chemistry Research*
 - *Archiv Der Pharmazie-Chemistry in Life Sciences*

- *Planta Medica*
- *Beni-Suef university Journal of Basic and Applied Sciences*
- *International Journal of Pharmacy and Pharmaceutical Sciences*
- University of Sharjah Grants Proposal Review, UAE.
- Um-Alqura University Grants Proposal Review, KSA.

PUBLICATIONS

1. S. M. El-Moghazy Aly, D. E. Abdel Rahman, S. E. Abbas, M. A. Mohammed and **A. H. Amin Abdelazeem**. Design and synthesis of some substituted acridine derivatives of anticipated antitumor activity. *Bull. Pharm. Sci., Assiut University*, **2007**, *30*, 213-234.
2. Michael J. Seminerio; Matthew J. Robson; **Ahmed H. Abdelazeem**; Christophe Mesangeau; Seshulatha Jamalapuram; Bonnie A. Avery; Christopher R. McCurdy; Rae R. Matsumoto. Synthesis and Pharmacological Characterization of a Novel Sigma Receptor Ligand with Improved Metabolic Stability and Antagonistic Effects against Methamphetamine. *The AAPS Journal*, **2011**, *14*, 43-51. **(Impact Factor = 5.7)**
3. Seshulatha Jamalapuram, Pradeep Kumar Vuppala, **Ahmed H. Abdelazeem**, Christopher R. McCurdy and Bonnie A. Avery. Ultra performance liquid chromatography tandem mass spectrometry method for the determination of AZ66, a sigma receptor ligand, in rat plasma and its application to in vivo pharmacokinetics. *Biomedical Chromatography*, **2013**, *27* (8), 1034-1040. **(Impact Factor = 2.0)**
4. **Ahmed H. Abdelazeem**, Shaimaa A. Abdelatef, Mohammed T. El-Saadi, Hany A. Omar, Shabana I. Khan, Christopher R. McCurdy and Samir M. El-Moghazy. Novel Pyrazolopyrimidine Derivatives Targeting COXs and iNOS enzymes; Design, Synthesis and Biological Evaluation as Potential Anti-inflammatory Agents. *European Journal of Pharmaceutical Sciences*, **2014**, *62*, 197-211. **(Impact Factor = 3.5)**
5. **Ahmed H. Abdelazeem**, Ahmed M. Gouda, Hany A. Omar, Mai F. Tolba. Design, synthesis and biological evaluation of novel diphenylthiazole-based cyclooxygenase inhibitors as potential anticancer agents. *Bioorganic Chemistry*, **2014**, *57*, 132–141. **(Impact Factor = 2.1)**
6. Ahmed Khames, **Ahmed H. Abdelazeem**, Maha Habash, and Mutasem O. Taha. Preparation and in vitro characterization of glibenclamide-loaded alginate hexyl-amide beads: a novel drug delivery

- system to improve the dissolution rate. *Pharmaceutical Development and Technology*. **2014**, 19, 881-890. (Impact Factor = 1.3)
7. Ahmed M. Gouda, Ahmed H. Abdelazeem, Hany A. Omar. Design, synthesis and pharmacological evaluation of novel pyrrolizine derivatives as potential anticancer agents. *Bioorganic Chemistry*, **2014**, 53, 1-7. (Impact Factor = 2.1)
 8. El-shaimaa A Arafa, Ahmed H Abdelazeem, Hany H Arab and Hany A Omar. OSU-CG5, a novel energy restriction mimetic agent, targets human colorectal cancer cells in vitro. *Acta Pharmacologica Sinica*, **2014**, 35, 394-400. (Impact Factor = 2.6)
 9. Maha Habash, Ahmed H. Abdelazeem, Mutasem O. Taha. Elaborate Ligand-Based Modeling Reveals New Human Neutrophil Elastase Inhibitors. *Medicinal Chemistry Research*. **2014**, 23, 3876-3896. (Impact Factor = 1.7)
 10. Mutasem O. Taha, Maha Habash, Ahmed H. Abdelazeem, Amjad Qandil. Ligand-based modelling Followed by in Vitro Bioassay Yielded New Potent Glucokinase Activators. *Journal of Molecular Graphics and Modelling*, **2015**, 56, 91-102. (Impact Factor = 2.1)
 11. Ahmed H. Abdelazeem, Samir A. Salama, Ibrahim A. Maghrabi. Design, Synthesis and Anti-Inflammatory Evaluation of Novel Diphenylthiazole-Thiazolidinone Hybrids. *Archiv Der Pharmazie-Chemistry in Life Sciences*, **2015**, 348, 518–530. (Impact Factor = 1.5)
 12. Ahmed H. Abdelazeem, Maha Habash, Ibrahim Maghrabi, Mutasem O. Taha, Synthesis and Evaluation of Novel Diphenylthiazole Derivatives as Potential Anti-Inflammatory Agents. *Medicinal Chemistry Research*. **2015** (ACCEPTED). (Impact Factor = 1.7)
 13. Ahmed H. Abdelazeem, Shabana I. Khan, Stephen W. White, Kenneth J. Sufka and Christopher R. McCurdy. Design, Synthesis and Biological Evaluation of Bivalent Benzoxazolone and Benzothiazolone Ligands as Potential Anti-inflammatory/Analgesic Agents. *Bioorganic & Medicinal Chemistry*, **2015**, 23, 3248-3259. (Impact Factor = 3.2)
 14. Ahmed H. Abdelazeem, Mohammed T. El-Saadi, Asmaa G. Safi El-Din and Samir M. El-Moghazy. Design, Synthesis and Biological Evaluation of Novel Diphenylthiazole-Thiazolidin-4-one-Based Derivatives as Analgesic/Anti-Inflammatory Agents. *Journal of Chemical and Pharmaceutical Research*, **2015**, 7, 1073-1079. (Impact Factor = 0.4)
 15. Abdelazeem, A. H.; Mesangeau, C.; Seminaro, M.; Jamalapuram, S.; Matsumoto, R. R.; Avery, B.A.; Poupaert, J.H.; McCurdy, C. R. Design and synthesis of metabolically stable benzothiazolone

derivatives of CM156 with high affinity and selectivity for sigma (σ) receptors. *Journal of Medicinal Chemistry* (SUBMITTED). (Impact Factor = 5.4)

16. Ahmed M. Gouda, Ahmed H. Abdelazeem. An Integrated Overview on Pyrrolizines as Potential Anti-inflammatory, Analgesic and Antipyretic Agents. Review, *European Journal of Medicinal Chemistry*, 2016. (ACCEPTED) (Impact Factor = 3.5)
17. Ahmed M. Gouda, Hamed I. Ali, Waleed H. Almalki, Mohamed A. Azim, Mohammed A.S. Abourehab, Ahmed H. Abdelazeem. Synthesis, and Biological Evaluation of Some Novel Pyrrolizine Derivatives as COX Inhibitors with Anti-inflammatory/Analgesic Activities and Low Ulcerogenic Liability. *Molecules*, 2016, 21, 201. (Impact Factor = 2.4)
18. Jonathan L. Katz, Takato Hiranita, Theresa A. Kopajtic, Kenner C. Rice, Christophe Mesangeau, Sanju Narayanan, Ahmed H. Abdelazeem, and Christopher R McCurdy. Blockade of Cocaine or Sigma Receptor Agonist Self-Administration by Subtype- Selective Sigma Receptor Antagonists. *Journal of Pharmacology and Experimental Therapeutics*. April, 2016, doi:10.1124/jpet.116.232728. (Impact Factor = 3.97)
19. Ahmed H. Abdelazeem, Yasser M.A. Mohamed, Ahmed M. Gouda, Hany A. Omar. Novel Thymohydroquinone-Based Derivatives as Potential Anticancer Agents: Design, Synthesis and Biological Screening. *Chemical Biology & Drug Design*. (SUBMITTED) (Impact Factor = 2.7)
20. Ahmed M. Gouda, Ahmed H. Abdelazeem, Hany Omar. Design, Synthesis and Biological Evaluation of Some Novel 6-Methyleneamino-Pyrrolizine Derivatives as Potential Anticancer Agents. *Medicinal Chemistry Research*. (SUBMITTED) (Impact Factor = 1.5)

PATENTS

1. McCurdy, C.R.; Mesangeau, C.; Narayanan, S.; Matsumoto, R.R.; Poupaert, J.H.; Avery, B.A.; Abdelazeem, A. H. *Highly Selective Sigma Receptor Ligands*. US 2010/0329978 A1, Application Number: 12/785, 217, Filed 05/21/2010, US 8,686,008 B2, Apr. 1, 2014.
2. McCurdy, C.R.; Mesangeau, C.; Avery, B.A.; Abdelazeem, A.H.; Chin, F.T.; Poupaert, J.H. *Highly Selective Sigma Receptor Ligands*. Application Number: 14/187,035. US 2015/0018339 A1, Jan. 15, 2015.

PODIUM AND POSTER PRESENTATIONS

- **Ahmed H. Abdel-Azeem**, Christophe Mesangeau, Shabana Khan, Kenneth J. Sufka, Stephen W. White, Safinaz El-Sayed Abbas, Jacques H. Poupaert and Christopher R. McCurdy. Design, Synthesis and Biological Evaluation of 2-(3H)-Benzoxazolone and 2-(3H)-Benzothiazolone Dimers as Potential Anti-inflammatory Agents. March, **2010**, 239th ACS National Meeting, San Francisco, CA, USA.
- **Ahmed H. Abdelazeem**, Christophe Mesangeau, M. Khalid Ashfaq, Melissa Jacob, Safinaz Abbas and Christopher R. McCurdy. Synthesis and Biological Evaluation of Benzoxazolone and Benzothiazolone Dimers as Potential Anticryptococcal Agents. *The National center for natural products Research annual poster session held at the University of Mississippi, University, MS 38677*, October, **2009**.
- **Ahmed H. Abdelazeem**, Christophe Mesangeau, Seshulatha Jamalapuram, Bonnie A. Avery, Michael Seminaro, Rae R. Matsumoto, Safinaz El-Sayed Abbas, Christopher R. McCurdy. Design and synthesis of metabolically stable benzothiazolonone derivatives of CM156 with high affinity and selectivity for sigma (σ) receptors. 37th Annual MALTO meeting, May, **2010**, Oxford, MS.
- **Ahmed H. Abdelazeem**, Christophe Mesangeau, David Watson, Shabana Khan, Safinaz Abbas, Jacques Poupaert and Christopher R. McCurdy. Novel Piperazine Derivatives Targeting iNOS and NF-kB for the Potential Treatment of Inflammation. 37th Annual MALTO meeting, May, **2010**, Oxford, MS.
- Seminerio, M.J., **Abdelazeem, A. H.**, McCurdy, C.R., Matsumoto, R.R. Characterization of potentially stable analogs of CM156, a sigma receptor antagonist. 3rd Annual West Virginia University Center for Neuroscience Retreat. Morgantown, WV, **2009**.
- Seminerio, M.J., **Abdelazeem, A. H.**, McCurdy, C.R., Matsumoto, R.R. Characterization of optimized CM156: A potential aid in the treatment of psychostimulant-induced complications. STaR Symposium. Huntington, WV, **2010**.
- **Ahmed H. Abdelazeem**; Christophe Mesangeau; Seshulatha Jamalapuram; Bonnie A. Avery; Michael Seminaro; Rae R. Matsumoto; McCurdy, C. R. Optimization of CM156: a metabolically unstable, high affinity sigma receptors with potent anti-cocaine and anti-methamphetamine activity. National Institute on Drug Abuse (NIDA), Annual meeting, **2010**.
- S. Jamalapuram, P. Vuppala, **A. Abdelazeem**, C. McCurdy, B. Avery. Determination of AZ66, a Metabolically Stable Sigma Receptor Ligand, in Rat Plasma by Ultra-Performance Liquid Chromatography Mass Spectrometry and its Application to a Pharmacokinetic Study. AAPS annual meeting, Washington D.C, October **2011**.
- S. Jamalapuram¹, P. Vuppala¹, **A. Abdelazeem**, C. Mesangeau, C. McCurdy, B. Avery. In Vitro Metabolic Stability and Pharmacokinetics in Lead Optimization of Novel Sigma Receptor Ligands. AAPS annual meeting, Washington D.C, October **2011**.

- Maha Habash, **Ahmed H. Abdelazeem**, Mutasem O. Taha. The Use of Comparative Intramolecular Contact Analysis to Build Valid Pharmacophore Model(S) Against Soluble Epoxide Hydrolase towards Development of Potential Anti-Inflammatory Agents. Poster, *6th International Conference on Drug Discovery and Therapy*. Dubai, United Arab Emirates, 10th - 12th February, **2014**.
- **Ahmed H. Abdelazeem**, Ahmed M. Gouda, Hany A. Omar, Mai F. Tolba. "Synthesis and Anticancer Evaluation of Novel Thiazolidinone-Based Cyclooxygenase Inhibitors". The 8th Dubai International Conference for Medical Sciences, Dubai, United Arab Emirates, 16th -17th December, **2014**.
- Ahmed M. Gouda, **Ahmed H. Abdelazeem**, Hany A. Omar, Ahmed S. Ahmed. "Design, Synthesis and Biological Evaluation of Some Novel Pyrrolizine Derivatives as Potential Apoptosis Inducer Anticancer Agents". 5th International Conference of the Division of Pharmaceutical and Drug Industries entitled "Advances in Pharmaceutical Research". National Research Centre, Cairo, Egypt, 29 -30th March, **2015**.

REFERENCES

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