

Curriculum Vitae

C.V.

* Personal Information:

★ **Name:**

- Mohammed Ibrahim El Said Ali El-Gamal

★ **Date of birth:**

- July 12th, 1982

★ **Nationality:**

- Egyptian

★ **Address:**

- University of Sharjah, College of Pharmacy, Department of Medicinal Chemistry, United Arab Emirates.
- 16th Makka street, El-Gamaa district, Mansoura, Dakahlia, Arab Republic of Egypt.

★ **E-mail addresses:**

- malgamal@sharjah.ac.ae
- drmelgamal2002@yahoo.com
- drmelgamal2002@gmail.com

★ **Telephone No.**

- +971505191436 (UAE)
- +201001340330 (Egypt)

★ **Marital status:**

- Married with one son and one daughter

★ **Native language:**

- Arabic

★ **Other languages:**

- English (Excellent reading, listening, speaking, and writing skills).
- Korean (Good).
- French (General background).

★ **Computer Skills:**

- Have ICDL (International Computer Driving License).
- Throughout my work, I became more or less familiar with the following software and databases:



- Windows XP professional.
- Windows Vista Ultimate.
- Molegro Virtual Docker (MVD).
- Molecular Operating Environment (MOE).
- ChemBioOffice Ultra 2010.
- Microsoft Office software.
- Scifinder Scholar.
- Reaxys.

* Educational Qualifications:

★ Bachelor of Pharmacy

- Date: May / 2003 – Faculty of Pharmacy – University of Mansoura – Egypt.
- Degree of graduation: Excellent with honor, 1st achiever.

★ Master's in pharmaceutical sciences (Medicinal Chemistry)

- Date: January / 2008 – Faculty of Pharmacy – University of Mansoura – Egypt.
- Master's Thesis Title: Design and Synthesis of Certain Substituted Styryl Derivatives as Potential Antiinflammatory Agents.
- My M.Sc. thesis has been published as a book. The book title is “Antiinflammatory Styryl Derivatives: Design, Synthesis, and Biology” and subtitle is “Benzylidene Acetone Oxime Ether Derivatives”. ISBN: 978-3-659-21820-0.

Publisher: LAP Lambert Academic Publishing GmbH & Co. KG, Germany

<https://www.morebooks.de/store/gb/book/antiinflammatory-styryl-derivatives:-design,-synthesis,-and-biology/isbn/978-3-659-21820-0>

★ Ph.D. degree (Medicinal Chemistry)

- Got Ph.D. degree from Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea, and University of Science and Technology (UST) after a full scholarship (Mar. 2009~Aug. 2012). Graduated in August 2012.
- Ph.D. Thesis Title: Design, Synthesis and Biological Evaluation of Novel Pyrazole and Pyrrolo[3,2-c]pyridine Derivatives as Potential Antiproliferative Agents.
- My Ph.D. thesis has been published as a book. The book title is “Pyrazoles and Pyrrolo[3,2-c]pyridines as Anticancer Agents” and subtitle is “Novel Pyrazoles and Pyrrolo[3,2-c]pyridines as Potential Anticancer Agents”. ISBN: 978-3-659-23161-2.

*** Research Interests and Experience:**

- Medicinal Chemistry and Drug Design.
- Organic Synthesis.
- Bioorganic Chemistry.
- Biological evaluation of therapeutically-efficient organic compounds, including pharmacodynamics and pharmacokinetics.
- Molecular modeling and chemoinformatics.
- Molecular Imaging.
- Structure elucidation using different spectroscopic techniques (such as MS, IR, ¹H NMR, ¹³C NMR, and 2D NMR such as COSY, HMBC, and HMQC).
- Purification of products from reaction mixtures both by simple solvent crystallization methods and advanced preparative chromatographic methods.
- Good experience in making different biological screening methods such as carrageenin-induced paw oedema method in rats for screening of antiinflammatory activity.
- Familiarity and experience in operating and interpretation of results obtained from:
 - NMR spectrometers.
 - Microwave reactors.
 - HPLC and MPLC.
 - IR instruments.

❖ Medicinal Chemistry Teaching Experience:

- 1) Teaching Assistant for undergraduate and postgraduate students: Dec. 13th 2003 ~ Feb. 16th 2009; Department of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt. Practical courses.
- 2) Teaching Assistant for postgraduate students: Mar. 2nd 2012 ~ June 15th 2012, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbook: Patrick; 48 hours, 16 weeks, 3 hours a week.
- 3) Course Instructor (Medicinal Chemistry: Drug Metabolism & Design): Mar. 1st 2013 ~ June 30th 2013, Department of Pharmaceutical Sciences, Kyung Hee University, Seoul,

Republic of Korea. Textbooks: Wilson and Gisvold & Foye & Patrick; 48 hours, 16 weeks, 3 hours a week.

- 4) Course Instructor (Medicinal Chemistry: Drug Metabolism & Drug Design): Mar. 2nd 2013 ~ June 21st 2013, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbooks: Wilson and Gisvold & Foye & Patrick; 48 hours, 16 weeks, 3 hours a week.
- 5) Course Instructor (Medicinal Chemistry: Drug Targets & Drug Action): June 17th 2013 ~ July 12th 2013, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbook: Patrick; 64 hours, 4 weeks, 4 days a week, 4 hours a day.
- 6) Course Instructor (Diploma of Drug Design and Synthesis): Nov. 9th 2013 ~ Dec. 14th 2013, Mansoura University, Faculty of Pharmacy, Department of Medicinal Chemistry. Textbook: Patrick, 5 hours.
- 7) Course Instructor (The Organic Chemistry of Drug Design and Drug Action): Dec. 23rd 2013 ~ Jan. 16th 2014, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbook: Silverman; 64 hours, 4 weeks, 4 days a week, 4 hours a day.
- 8) Course Instructor (Drug Metabolism & Drug Design): Mar. 1st 2014 ~ Jun. 20th 2014, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbooks: Wilson and Gisvold & Foye & Patrick; 48 hours, 16 weeks, 3 hours a week.
- 9) Course Instructor (Medicinal Chemistry I, undergraduate students) : Mar. 1st 2014 ~ Jun. 20th 2014, Department of Pharmaceutical Sciences, Kyung Hee University, Seoul, Republic of Korea. Textbook: Patrick; 48 hours, 16 weeks, 3 hours a week.
- 10) Course Instructor (Advanced Organic Synthesis, graduate students) : Mar. 1st 2014 ~ Jun. 20th 2014, Department of Pharmaceutical Sciences, Kyung Hee University, Seoul, Republic of Korea. Textbook: Modern Organic Synthesis: An Introduction, by Zweifel and Nantz; 48 hours, 16 weeks, 3 hours a week.
- 11) Course Instructor (Drug Targets and Drug Action in Medicinal Chemistry, graduate students): Jun. 30th 2014 ~ Jul. 25th 2014, University of Science and Technology (UST), Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea. Textbook: Patrick; 64 hours, 4 weeks, 4 days a week, 4 hours a day.

12) Teaching Medicinal Chemistry, Organic Chemistry, and Drug Development courses for undergraduate students to undergraduate students (University of Sharjah, UAE, College of Pharmacy, Sep. 7th – Dec. 25th 2014).

13) Teaching Medicinal Chemistry and Drug Development courses for undergraduate students to undergraduate students (University of Sharjah, UAE, College of Pharmacy, Feb. 2nd – May 21st 2015).

14) Teaching different medicinal chemistry, organic chemistry, and drug development courses in 2015~now (University of Sharjah, UAE, College of Pharmacy, Department of Medicinal Chemistry).

The key components of my teaching philosophy are as follows: motivation, trust, interest, communication, skill-integration, guidance, planning and organization, and professional development. My ultimate goal is to provide my students with the scientific information in an easy-to-understand way.

★ **Publications:**

- 1) Myung-Ho Jung, Hwan Kim, Won-Kyoung Choi, **Mohammed I. El-Gamal**, Jin-Hun Park, Kyung Ho Yoo, Tae Bo Sim, So Ha Lee, Daejin Baek, Jung-Mi Hah, Jung-Hyuck Cho, and Chang-Hyun Oh; "Synthesis of pyrrolo[2,3-*d*]pyrimidine derivatives and their antiproliferative activity against melanoma cell line". *Bioorg. Med. Chem. Lett.* **2009**, 19(23), 6538-6543.
- 2) Hee Jin Kim, Myung-Ho Jung, Hwan Kim, **Mohammed I. El-Gamal**, Tae Bo Sim, So Ha Lee, Jun Hee Hong, Jung-Mi Hah, Jung-Hyuck Cho, Jung Hoon Choi, Kyung Ho Yoo, and Chang-Hyun Oh; "Synthesis and antiproliferative activity of pyrrolo[3,2-*b*]pyridine derivatives against melanoma". *Bioorg. Med. Chem. Lett.* **2010**, 20(1), 413-417.
- 3) **Mohammed I. El-Gamal**, Said M. Bayomi, Saadia M. El-Ashry, Shehta A. Said, Alaa A.-M. Abdel-Aziz, and Naglaa I. Abdel-Aziz,; "Synthesis and antiinflammatory activity of novel (substituted)benzylidene acetone oxime ether derivatives: molecular modeling study". *Eur. J. Med. Chem.* **2010**, 45(4), 1403-1414.
- 4) Eun Jung Kim, Su Hee Hong, Tae Hyun Choi, Eun Ah Lee, Kyeong Min Kim, Kyo Chul Lee, Gwang Il An, **Mohammed I. El-Gamal**, Gi Jeong Cheon, Chang Woon Choi, and Sang Moo Lim; "Effects of structural differences between radioiodine-labeled 1-(2'-fluoro-2'-deoxy-D-arabinofuranosyl)-5-iodouracil (FIAU) and 1-(2'-fluoro-2'-deoxy-D-ribofuranosyl)-5-iodouracil (FIRU) on HSV1-TK reporter gene imaging". *Appl. Radiat.*

Isot. **2010**, *68(6)*, 971-978.

- 5) **Mohammed I. El-Gamal**, Myung-Ho Jung, and Chang-Hyun Oh; "Discovery of a new potent bisamide FMS kinase inhibitor". *Bioorg. Med. Chem. Lett.* **2010**, *20(11)*, 3216-3218.
[Corrigendum: *Bioorg. Med. Chem. Lett.* **2010**, *20(22)*, 6864].
- 6) Jin-Hun Park, Jeong-Soo Chang, **Mohammed I. El-Gamal**, Won-Kyoung Choi, Woong San Lee, Hye Jin Chung, Hyun-Il Kim, Young-Jin Cho, Bong Sang Lee, Hong-Ryeol Jeon, Yong Sup Lee, Young Wook Choi, Jaehwi Lee, and Chang-Hyun Oh; "Novel amides and esters prodrugs of olmesartan: Synthesis, bioconversion, and pharmacokinetic evaluation". *Bioorg. Med. Chem. Lett.* **2010**, *20(19)*, 5895-5899.
- 7) **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Current status of carbapenem antibiotics". *Curr. Top. Med. Chem.* **2010**, *10(18)*, 1882-1897.
- 8) Byung Seok Moon, Nam Hyun Jo, Kyo Chul Lee, **Mohammed I. El-Gamal**, Gwang Il An, Su Hee Hong, Tae Hyun Choi, Won-Kyoung Choi, Jin-Hun Park, Jung-Hyuck Cho, Gi Jeong Cheon, and Chang-Hyun Oh; "Comparison of D-[¹⁸F]FMAU and L-[¹⁸F]FMAU as PET Imaging Agents for HSV1-TK Gene Expression". *Bull. Korean Chem. Soc.* **2010**, *31(11)*, 3309-3312.
- 9) Nam Hyun Jo, Jung Young Kim, **Mohammed I. El-Gamal**, Won-Kyoung Choi, Jin-Hun Park, Eun Jung Kim, Jung-Hyuck Cho, Hyun-Joon Ha, Tae Hyun Choi, and Chang-Hyun Oh; "Radiosynthesis and *in vitro* evaluation of 1-(tetrahydro-5-hydroxy-6-(hydroxymethyl)-2H-pyran-3-yl)-5-[¹²⁵I]iodouracil: A new potential agent for HSV1-tk reporter gene monitoring". *J. Labelled Compd. Rad.* **2011**, *54(2)*, 93-97.
- 10) **Mohammed I. El-Gamal**, Tae Bo Sim, Jun Hee Hong, Jung-Hyuck Cho, Kyung Ho Yoo, and Chang-Hyun Oh; "Synthesis of 1H-pyrazole-1-carboxamide derivatives and their antiproliferative activity against melanoma cell line". *Arch. Pharm. Chem. Life Sci.* **2011**, *344(3)*, 197-204.
- 11) **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Design and synthesis of 3-(3-chloro-4-substituted phenyl)-4-(pyridin-4-yl)-1H-pyrazole-1-carboxamide derivatives and their antiproliferative activity against melanoma cell line". *Bull. Korean Chem. Soc.* **2011**, *32(3)*, 821-828.
- 12) **Mohammed I. El-Gamal**, Myung-Ho Jung, Woong San Lee, Taebo Sim, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, synthesis, and antiproliferative activity of new 1H-pyrrolo[3,2-c]pyridine derivatives against melanoma cell lines". *Eur. J. Med. Chem.* **2011**, *46(8)*, 3218-3226.

- 13) Jeong-Soo Chang, **Mohammed I. El-Gamal**, Woong San Lee, Hanan S. Anbar, Hye Jin Chung, Hyun-Il Kim, Young-Jin Cho, Bong Sang Lee, Sun Ahe Lee, Ji Yun Moon, Dong Jin Lee, Hong-Ryeol Jeon, Jaehwi Lee, Young Wook Choi, and Chang-Hyun Oh; "Design, synthesis, bioconversion, and pharmacokinetics evaluation of new ester prodrugs of olmesartan". *Eur. J. Med. Chem.* **2011**, *46*(9), 3564-3569.
- 14) **Mohammed I. El-Gamal**, Seong Jong Kim, and Chang-Hyun Oh; "Synthesis and *in vitro* antibacterial activity of new meropenem analogs". *J. Antibiot.* [**Nature Publishing Group (NPG)**] **2011**, *64*, 687-688.
- 15) **Mohammed I. El-Gamal**, Hong Seok Choi, Hae-Guk Cho, Jun Hee Hong, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, Synthesis, and Antiproliferative Activity of 3,4-Diarylpyrazole-1-Carboxamide Derivatives Against Melanoma Cell Line". *Arch. Pharm. Chem. Life Sci.* **2011**, *344*(11), 745-754.
- 16) Won-Kyoung Choi, **Mohammed I. El-Gamal**, Hong Seok Choi, Daejin Baek, and Chang-Hyun Oh; "New diarylureas and diarylamides containing 1,3,4-triarylpyrazole scaffold: Synthesis, antiproliferative evaluation against melanoma cell lines, ERK kinase inhibition, and molecular docking studies". *Eur. J. Med. Chem.* **2011**, *46*(12), 5754-5762.
- 17) Jin-Hun Park, **Mohammed I. El-Gamal**, Yong Sup Lee, and Chang-Hyun Oh; "New imidazo[2,1-*b*]thiazole derivatives: Synthesis, *in vitro* anticancer evaluation, and *in silico* studies". *Eur. J. Med. Chem.* **2011**, *46*(12), 5769-5777.
- 18) Sung Kew Kim, Woong San Lee, Sang Jin Han, Eun Jung Kim, **Mohammed I. El-Gamal**, Byoung Soo Kim, Tae Hyun Choi, Chang Woon Choi, In-Hye Ham, Chang-Hyun Oh, Ho-Young Choi, and Jung-Hyuck Cho; "Radiosynthesis and Biodistribution of an ¹²⁵I-labeled Resveratrol Derivative". *Bull. Korean Chem. Soc.* **2012**, *33*(2), 489-491.
- 19) Hee Jin Kim, Hye Jung Cho, Hwan Kim, **Mohammed I. El-Gamal**, Chang-Hyun Oh, So Ha Lee, Taebo Sim, Jung-Mi Hah, and Kyung Ho Yoo; "New diarylureas and diarylamides possessing acet(benz)amidophenyl scaffold: Design, synthesis, and antiproliferative activity against melanoma cell line". *Bioorg. Med. Chem. Lett.* **2012**, *22*(9), 3269-3273.
- 20) **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Design and synthesis of an anticancer diarylurea derivative with multiple-kinase inhibitory effect". *Bull. Korean Chem. Soc.* **2012**, *33*(5), 1571-1576.
- 21) Myung-Ho Jung, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Taebo Sim, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, synthesis, and antiproliferative activity of new 1*H*-pyrrolo[3,2-*c*]pyridine derivatives against melanoma cell lines. Part 2". *Bioorg.*

Med. Chem. Lett. **2012**, 22(13), 4362-4367.

- 22) Won-Kyoung Choi, **Mohammed I. El-Gamal**, Hong Seok Choi, Jun Hee Hong, Daejin Baek, Kihang Choi, and Chang-Hyun Oh; "Design, synthesis, and preliminary cytotoxicity evaluation of new diarylureas and diarylamides possessing 1,3,4-triarylpyrazole scaffold". *Bull. Korean Chem. Soc.* **2012**, 33(9), 2991-2998.
- 23) Hye Jung Cho, **Mohammed I. El-Gamal**, Chang-Hyun Oh, So Ha Lee, Garam Kim, Jun Hee Hong, Hong Seok Choi, and Kyung Ho Yoo; "Synthesis and Antiproliferative Activity of New Aminoisoquinolinyurea Derivatives Against Melanoma Cell Line". *Bull. Korean Chem. Soc.* **2012**, 33(11), 3635-3639.
- 24) **Mohammed I. El-Gamal**, Hanan S. Anbar, Hye Jin Chung, Hyun-Il Kim, Young-Jin Cho, Bong Sang Lee, Sun Ahe Lee, Ji Yun Moon, Dong Jin Lee, Dow Kwon, Won-jai Choi, Hong-Ryeol Jeon, and Chang-Hyun Oh; "Discovery of olmesartan hexetil: A new potential prodrug of olmesartan". *Bioorg. Med. Chem. Lett.* **2013**, 23(5), 1347-1350.
This compound has been marketed in The Republic of Korea.
<http://www.newsrx.com/newsletters/Health-and-Medicine-Week/2013-03-29/200329201322895W.html>
- 25) **Mohammed I. El-Gamal**, Hanan S. Anbar, Kyung Ho Yoo, and Chang-Hyun Oh; "FMS Kinase Inhibitors: Current Status and Future Prospects". *Med. Res. Rev.* **2013**, 33(3), 599-636.
- 26) Mohammad Ashrafuddin Khan, **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Optimization of the Reaction Conditions for Synthesis of 3-(Aryloxy)quinoline Derivatives via Friedländer's Cyclization Reaction". *Bull. Korean Chem. Soc.* **2013**, 34(6), 1848-1852.
- 27) **Mohammed I. El-Gamal**, Yi Seul Park, Dae Yoon Chi, Kyung Ho Yoo, and Chang-Hyun Oh; "New triarylpyrazoles as broad-spectrum anticancer agents: Design, synthesis, and biological evaluation". *Eur. J. Med. Chem.* **2013**, 65, 315-322.
- 28) **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, and Chang-Hyun Oh; "Recent Advances in the Research and Development of Marine Antimicrobial Peptides". *Curr. Top. Med. Chem.* **2013**, 13(16), 2026-2033.
- 29) Hyun-Jin Kim, **Mohammed I. El-Gamal**, Yong Sup Lee, and Chang-Hyun Oh; "Synthesis and preliminary cytotoxicity evaluation of new diarylamides and diarylureas possessing 2,3-dihydropyrrolo[3,2-*b*]quinoline scaffold". *Bull. Korean Chem. Soc.* **2013**, 34(8), 2480-2486.
- 30) **Mohammed I. El-Gamal**, Hong Seok Choi, Kyung Ho Yoo, Daejin Baek, and Chang-

- Hyun Oh; "Antiproliferative diarylpyrazole derivatives as dual inhibitors of the ERK pathway and COX-2". *Chem. Biol. Drug Des.* **2013**, 82(3), 336-347.
- 31) Hye Jung Cho, **Mohammed I. El-Gamal**, Chang-Hyun Oh, So Ha Lee, Taebo Sim, Garam Kim, Hong Seok Choi, Jung Hoon Choi, and Kyung Ho Yoo; "Novel Quinolinylaminoisoquinoline Bioisosteres of Sorafenib as Selective RAF1 Kinase Inhibitors: Design, Synthesis, and Antiproliferative Activity Against Melanoma Cell Line". *Chem. Pharm. Bull.*, **2013**, 61(7), 747-756.
- 32) Eun Jeong Koh, **Mohammed I. El-Gamal**, Chang-Hyun Oh, So Ha Lee, Taebo Sim, Garam Kim, Jun Hee Hong, Hong Seok Choi, Sang-gi Lee, and Kyung Ho Yoo; "New diarylamides and diarylureas possessing 8-amino(acetamido)quinoline scaffold: Synthesis, antiproliferative activities against melanoma cell lines, kinase inhibition, and *in silico* studies". *Eur. J. Med. Chem.* **2013**, 70, 10-21.
- 33) **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Diarylureas and diarylamides with pyrrolo[2,3-*d*]pyrimidine scaffold as broad-spectrum anticancer agents". *Chem. Pharm. Bull.* **2014**, 62(1), 25-34.
- 34) Alaa A. Hassan, Tarek M. Bebir, and **Mohammed I. El-Gamal**; "Synthesis of pyrazolylthiazole and pyrazolyl-1,2,4-triazepine derivatives". *J. Chem. Res.* **2014**, 38(1), 27-31.
- 35) Hyeon-Lok Jang, **Mohammed I. El-Gamal**, Hye-Eun Choi, Ho-Yeong Choi, Kyung-Tae Lee, and Chang-Hyun Oh; "Synthesis of tricyclic fused coumarin sulfonates and their inhibitory effects on LPS-induced nitric oxide and PGE₂ productions in RAW 264.7 macrophages". *Bioorg. Med. Chem. Lett.* **2014**, 24(2), 571-575.
- 36) **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, Daejin Baek, Kyung Ho Yoo, and Chang-Hyun Oh; "Cell-based biological evaluation of a new bisamide FMS kinase inhibitor possessing pyrrolo[3,2-*c*]pyridine scaffold". *Arch. Pharm.* **2014**, 347(9), 635-641.
- 37) Mohammad Ashrafuddin Khan, **Mohammed I. El-Gamal** (co-first author), Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, Kyung Ho Yoo, and Chang-Hyun Oh; "Broad-spectrum antiproliferative activity of diarylureas and diarylamides possessing pyrrolo[3,2-*c*]pyridine scaffold". *Journal of Pharmacy and Pharmacology* **2014**, 2, 157-169.
- 38) **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Synthesis, *in vitro* antiproliferative activity, and *in silico* studies of fused tricyclic coumarin sulfonate derivatives". *Eur. J. Med. Chem.* **2014**, 84, 68-76.

- 39) **Mohammed I. El-Gamal**, Mohammad Ashrafuddin Khan, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "A new series of diarylamides possessing quinoline nucleus: Synthesis, *in vitro* anticancer activities, and kinase inhibitory effect". *Eur. J. Med. Chem.* **2014**, *87*, 484-492.
- 40) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, and Chang-Hyun Oh; "Synthesis and *in vitro* antiproliferative activity of new 1,3,4-oxadiazole derivatives possessing sulfonamide moiety". *Eur. J. Med. Chem.* **2015**, *90*, 45-52.
- 41) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, and Chang-Hyun Oh; "Synthesis and broad-spectrum antiproliferative activity of diarylamides and diarylureas possessing 1,3,4-oxadiazole derivatives". *Bioorg. Med. Chem. Lett.* **2015**, *25(8)*, 1692-1699.
- 42) Mohammed S. Abdel-Maksoud, Mi-Ryeong Kim, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, Jinsung Tae, Hong Seok Choi, Kyung-Tae Lee, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, synthesis, *in vitro* antiproliferative evaluation, and kinase inhibitory effects of a new series of imidazo[2,1-*b*]thiazole derivatives", *Eur. J. Med. Chem.* **2015**, *95*, 453-463.
- 43) **Mohammed I. El-Gamal**, Daejin Baek, and Chang-Hyun Oh; "A New Series of Cycloalkane-fused Coumarin Sulfonates: Synthesis and *In Vitro* Antiproliferative Screening", *Bull. Korean Chem. Soc.* **2016**, *37(2)*, 184-191.
- 44) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal (Co-first author)**, Mahmoud M. Gamal El-Din, Seong-Shin Kwak, Hyun-Il Kim, and Chang-Hyun Oh, "Broad-spectrum antiproliferative activity of a series of 6-(4-fluorophenyl)-5-(2-substituted pyrimidin-4-yl)imidazo[2,1-*b*]thiazole derivatives". *Med. Chem. Res.* **2016**, *25(5)*, 824-833.
- 45) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, synthesis, broad-spectrum antiproliferative activity, and kinase inhibitory effect of triarylpyrazole derivatives possessing arylamides or arylureas moieties". *Eur. J. Med. Chem.* **2016**, *119*, 122-131.
- 46) **Mohammed I. El-Gamal (Corresponding author)**, Mohammad H. Semreen, Paul A. Foster (Co-corresponding author, University of Birmingham, UK), and Barry V.L. Potter (University of Oxford, UK); "Design, synthesis, and biological evaluation of new arylamide derivatives possessing sulfonate or sulfamate moieties as steroid sulfatase enzyme inhibitors". *Bioorg. Med. Chem.* **2016**, *24(12)*, 2762-2767.

- 47) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, Daejin Baek, Jungseung Choi, Huiseong Lee, and Chang-Hyun Oh; "Design, synthesis, and *in vitro* antiproliferative and kinase inhibitory effects of pyrimidinylpyrazole derivatives terminating with arylsulfonamido or cyclic sulfamide substituents". *J. Enz. Inhibit. Med. Chem.* **2016**, *31*, 111-122.
- 48) Mohammad Ashrafuddin Khan, **Mohammed I. El-Gamal** (co-first and corresponding author), Hamadeh Tarazi, Hong Seok Choi, and Chang-Hyun Oh; "Design and synthesis of a new series of highly potent RAF kinase-inhibiting triarylpyrazole derivatives possessing antiproliferative activity against melanoma". *Future Medicinal Chemistry* **2016**, *8(18)*, 2197-2211.
- 49) **Mohammed I. El-Gamal**, Woo-Seok Lee, Ji-Sun Shin, Chang-Hyun Oh, Kyung-Tae Lee, Jungseung Choi, Nohsun Myoung, and Daejin Baek; "Synthesis of new tricyclic and tetracyclic fused coumarin sulfonate derivatives, and their inhibitory effects on LPS-induced nitric oxide and PGE₂ productions in RAW 264.7 macrophages: Part 2". *Archiv der Pharmazie* **2016**, *349(11)*, 853-863.
- 50) **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, Ji-Sun Shin, Kyung-Tae Lee, Kyung Ho Yoo, and Chang-Hyun Oh; "Synthesis, *in vitro* antiproliferative and antiinflammatory activities, and kinase inhibitory effects of new 1,3,4-triarylpyrazole derivatives". *Anti-Cancer Agents in Medicinal Chemistry* **2017**, *17(1)*, 75-84.
- 51) **Mohammed I. El-Gamal**, Mohammad Ashrafuddin Khan, Hamadeh Tarazi, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, Kyung Ho Yoo, and Chang-Hyun Oh; "Design and synthesis of new RAF kinase-inhibiting antiproliferative quinoline derivatives. Part 2: Diarylurea derivatives". *Eur. J. Med. Chem.* **2017**, *127*, 413-423.
- 52) Mohammad Ashrafuddin Khan, **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "A progressive review of V600E-B-RAF-dependent melanoma and drugs inhibiting it". *Mini-Reviews in Medicinal Chemistry* **2017**, *17(4)*, 351-365.
- 53) **Mohammed I. El-Gamal** (Corresponding author), and Hanan S. Anbar; "Recent advances of pyrrolopyridines derivatives: A patent and literature review". *Expert Opinion on Therapeutic Patents* **2017**, *27(5)*, 591-606.
- 54) **Mohammed I. El-Gamal** (Corresponding author), Imen Brahim, Noorhan Hisham, Rand Aladdin, Haneen Mohammed, and Amany Bahaaeldin; "Recent updates of carbapenem antibiotics". *Eur. J. Med. Chem.* **2017**, *131*, 185-195.
- 55) Byung-Jun Park, **Mohammed I. El-Gamal** (co-first author), Woo-Suck Lee, Ji-Sun Shin,

- Kyung Ho Yoo, Kyung-Tae Lee, and Chang-Hyun Oh; "Synthesis and inhibitory effects of triarylpyrazoles on LPS-induced NO and PGE₂ productions in RAW 264.7 macrophages". *Med. Chem. Res.* **2017**, 26(9), 2161-2171.
- 56) **Mohammed I. El-Gamal**, Shahad K. Al-Ameen, Dania M. Al-Koumi, Mawadda G. Hamad, Nouran A. Jalal, and Chang-Hyun Oh; "Recent advances of colony-stimulating factor-1 receptor (CSF-1R) kinase and its inhibitors". *J. Med. Chem.* **2018**, 61(13), 5450-5466. I.F. 6.253, ranked #3 out of 59 medicinal chemistry journals (top 5%).
- 57) Mohammad H. Semreen, **Mohammed I. El-Gamal** (Corresponding author), Shifaa Abdin, Hajar Alkhazraji, Leena Kamal, Saba Hammad, Faten El-Awady, Dima Waleed, and Layal Kourbaj; "Recent updates of marine antimicrobial peptides". *Saudi Pharm. J.* **2018**, 26(3), 396-409.
- 58) Jamshed Iqbal, **Mohammed I. El-Gamal** (Co-first author), Syeda Abida Ejaz, Joanna Lecka, Jean Sévigny, and Chang-Hyun Oh; "Tricyclic coumarin sulphonate derivatives with alkaline phosphatase inhibitory effects: In vitro and docking studies". *J. Enz. Inhibit. Med. Chem.* **2018**, 33(1), 479-484.
- 59) **Mohammed I. El-Gamal** and Chang-Hyun Oh; "Pyrrolo[3,2-c]pyridine derivatives with potential inhibitory effect against FMS kinase: *In vitro* biological studies". *J. Enz. Inhibit. Med. Chem.* **2018**, 33(1), 1160-1166.
- 60) **Mohammed I. El-Gamal**, Byung-Jun Park, and Chang-Hyun Oh; "Synthesis, in vitro antiproliferative activity, and kinase inhibitory effects of pyrazole-containing diarylureas and diarylamides". *Eur. J. Med. Chem.* **2018**, 156, 230-239.
- 61) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, Yunji Choi, Jungseung Choi, Ji-Sun Shin, Shin-Young Kang, Kyung Ho Yoo, Kyung-Tae Lee, Daejin Baek, and Chang-Hyun Oh; "Synthesis of new triarylpyrazole derivatives possessing terminal sulfonamide moiety and their inhibitory effects on PGE₂ and nitric oxide productions in LPS-induced RAW 264.7 macrophages". *Molecules* **2018**, 23(10), 2556.
- 62) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "Design, synthesis, in vitro anticancer evaluation, kinase inhibitory effects, and pharmacokinetic profile of new 1,3,4-triarylpyrazole derivatives possessing terminal sulfonamide moiety". *J. Enz. Inhibit. Med. Chem.* **2019**, 34(1), 97-109.
- 63) Hamadeh Tarazi, **Mohammed I. El-Gamal** (co-first author), and Chang-Hyun Oh; "Discovery of highly potent V600E-B-RAF kinase inhibitors: Molecular Modeling Study". *Bioorg. Med. Chem.* **2019**, 27(4), 655-663.

- 64) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal** (Co-first author), Dalia Reyane Benhalilou, Sandy Ashraf, Shatha Abdulghaffar Mohammed, and Chang-Hyun Oh; "Mechanistic/mammalian target of rapamycin: Recent pathological aspects and inhibitors". *Med. Res. Rev.* **2019**, 39, 631-644. I.F. 8.29, ranked #2 out of 59 medicinal chemistry journals (top 5%).
- 65) Mohammad H. Semreen, **Mohammed I. El-Gamal** (Corresponding author), Saif Ullah, Saquib Jalil, Sumera Zaib, Hanan S. Anbar, Joanna Lecka, Jean Sévigny, and Jamshed Iqbal; "Synthesis, biological evaluation, and molecular docking study of sulfonate derivatives as nucleotide pyrophosphatase (NPPs) inhibitors". *Bioorg. Med. Chem.* **2019**, 27(13), 2741-2752.

★ **Patents:**

- 1) Chang-Hyun Oh, Myung-Ho Jung, **Mohammed I. El-Gamal**, Kyung Ho Yoo, Tae Bo Sim, Won-Kyoung Choi, and Jung-Hyuck Cho, "Pyrrolo[3,2-c]pyridine derivatives and preparation thereof", Korean patent, Application No. 10-2010-0102522; application date: 2010, Oct. 20th. **Repub. Korean Kongkae Taeho Kongbo (2012), KR 2012040980 A 20120430. Registration No. 1011736780000.**
- 2) Chang-Hyun Oh, Jung-Hyuck Cho, and **Mohammed I. El-Gamal**, The preparations and antiproliferative activity of 1,3,4-triarylpyrazole and 3,4-diarylpyrazole derivatives for melanoma. Korean patent, Application # 10-2011-0059157; application date: 2011, Jun. 17th. **Repub. Korean Kongkae Taeho Kongbo (2013), KR 2013010514 A 20130129.**
- 3) Imidazooxazole derivatives having antitumor effect, and pharmaceutical composition including the same, WO 2018008920A1.

★ **Poster Presentations:**

- 1) **Mohammed I. El-Gamal**, Said M. Bayomi, Saadia M. El-Ashry, Shehta A. Said, Alaa A.-M. Abdel-Aziz, and Naglaa I. Abdel-Aziz; "Synthesis and Antiinflammatory Activity of Novel (Substituted)Benzylidene Acetone Oxime Ether Derivatives: Molecular Modeling Study". First scientific conference of medicinal chemistry department, University of Mansoura, Egypt, 2010, Jul. 25th.
- 2) Chang-Hyun Oh, Jin-Hun Park, Jeong-Soo Chang, **Mohammed I. El-Gamal**, Won-Kyoung Choi, Woong San Lee, Hong-Ryeol Jeon, Hye Jin Chung, and Yong Sup Lee; "Novel amides and esters prodrugs of olmesartan: Synthesis, bioconversion, and pharmacokinetic evaluation". 2010 International Chemical Congress of Pacific Basin

Societies (Pacifichem), Honolulu, Hawaii, USA, 2010, Dec. 15th~20th.

- 3) **Mohammed I. El-Gamal**, Woong San Lee, Hong Seok Choi, Kyung Ho Yoo, Jung-Hyuck Cho, and Chang-Hyun Oh; "New 3,4-diarylpyrazole-1-carboxamide derivatives: Design, synthesis, and anticancer evaluation". 107th Korean Chemical Society (KCS) national meeting, ICC, Jeju island, Republic of Korea, 2011, Apr. 28th~29th.
- 4) Woong San Lee, **Mohammed I. El-Gamal**, Taebo Shim, Kyung Ho Yoo, Jung-Hyuck Cho, and Chang-Hyun Oh; "Synthesis of imidazo[2,1-*b*][1,3]thiazole derivatives and their antiproliferative activity against melanoma cell line". 107th Korean Chemical Society (KCS) national meeting, Jeju island, Republic of Korea, 2011, Apr. 28th~29th.
- 5) Ye Seul Park, **Mohammed I. El-Gamal**, Hong Seok Choi, Kyung Ho Yoo, Jung-Hyuck Cho, and Chang-Hyun Oh; "Synthesis and antiproliferative activity of new 1,3,4-triarylpyrazole derivatives against melanoma cell line". 107th Korean Chemical Society (KCS) national meeting, Jeju island, Republic of Korea, 2011, Apr. 28th~29th.
- 6) Chang-Hyun Oh, Sung Kew Kim, **Mohammed I. El-Gamal**, Tae Hyun Choi, Kook-Hyun Yu, and Jung-Hyuck Cho; "Radiosynthesis and biodistribution of [¹³¹I]resveratrol". 19th International Symposium on Radiopharmaceutical Sciences, the ISRS 2011. Vrije University Medical Center in Amsterdam, the Netherlands, 2011, Aug. 28th~Sep. 2nd. [Published in *J. Label. Compd. Radiopharm.* **2011**, *54*, S1-S576 (S169)].
- 7) **Mohammed I. El-Gamal**, Woong San Lee, Jung-Hyuck Cho, and Chang-Hyun Oh; "New ester prodrugs of olmesartan: Design, synthesis, bioconversion, and pharmacokinetics evaluation". 108th Korean Chemical Society (KCS) national meeting, Daejeon, Republic of Korea, 2011, Sep. 28th~30th.
- 8) Hee-Seok Song, **Mohammed I. El-Gamal**, Kyung Ho Yoo, Jung-Hyuck Cho, Kihang Choi, and Chang-Hyun Oh; "Synthesis and antiproliferative activities of 1-substituted-3-(4-chloro-5-methoxyphenyl)-4-pyridinylpyrazole and 1-substituted-3-(3-chloro-4-methoxyphenyl)-4-pyridinylpyrazole derivatives for melanoma cell II". 108th Korean Chemical Society (KCS) national meeting, Daejeon, Republic of Korea, 2011, Sep. 28th~30th.
- 9) Woong San Lee, **Mohammed I. El-Gamal**, Kihang Choi, Kyung Ho Yoo, Jung-Hyuck Cho, and Chang-Hyun Oh; "New imidazo[2,1-*b*][1,3]thiazole derivatives containing cyclic sulfonamide moiety: Synthesis and antiproliferative evaluation against melanoma cell line". 108th Korean Chemical Society (KCS) national meeting, Daejeon, Republic of Korea, 2011, Sep. 28th~30th.
- 10) **Mohammed I. El-Gamal**, Woong San Lee, Hong Seok Choi, Kyung Ho Yoo, Jung-Hyuck

Cho, and Chang-Hyun Oh,; “New 3,4-Diarylpyrazole-1-carboxamide Derivatives: Design, Synthesis, Anticancer Evaluation, and Molecular Docking Study”. 8th AFMC International Medicinal Chemistry Symposium “Frontier of Medicinal Science” [AIMECS11] organized by Asian Federation for Medicinal Chemistry (AFMC), Keio plaza hotel, Shinjuku-ku, Tokyo, Japan, 2011, Nov. 29th~Dec. 2nd.

- 11) **Mohammed I. El-Gamal**, Chang-Hyun Oh, and Myung-Ho Jung; “New diarylureas and diarylamides possessing 1*H*-pyrrolo[3,2-*c*]pyridine scaffold: Design, synthesis, and anticancer evaluation”. 243rd American Chemical Society (ACS) National Meeting, San Diego, California, USA. 2012, Mar. 25th~29th.
- 12) Hyun-Jin Kim, **Mohammed I. El-Gamal**, Kyung-Tae Lee, Yong Sup Lee, and Chang-Hyun Oh; “Design, synthesis, and *in vitro* cytotoxicity evaluation of 3,4-diarylpyrazole derivatives”. 2012 International Congress of Korean Federation of Pharmaceutical Societies “Shifting a Paradigm for Progression of Pharmacy”, ICC, Jeju island, Republic of Korea, 2012, Apr. 19th~21st.
- 13) **Mohammed I. El-Gamal**, Myung-Ho Jung, Kyung Ho Yoo, and Chang-Hyun Oh; “Discovery of a new anticancer diarylurea derivative possessing pyrrolo[3,2-*c*]pyridine scaffold with multiple-kinase inhibitory effect”. 13th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, NH Grand Hotel Krasnapolsky, Amsterdam, The Netherlands. 2012, June 26th~29th.
- 14) **Mohammed I. El-Gamal**, Yong Sup Lee, Kyung-Tae Lee, and Chang-Hyun Oh; “Design, synthesis, and biological evaluation of novel vicinal diaryl heterocycles possessing imidazo[2,1-*b*]thiazole moiety”. 13th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, NH Grand Hotel Krasnapolsky, Amsterdam, The Netherlands. 2012, June 26th~29th.
- 15) **Mohammed I. El-Gamal**, Myung-Ho Jung, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, and Chang-Hyun Oh; “Preliminary cytotoxicity evaluation of a selective FMS kinase inhibitor possessing diarylamide and pyrrolo[3,2-*c*]pyridine moieties”. 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 16) Mohammad Ashrafuddin Khan, **Mohammed I. El-Gamal**, Taebo Sim, and Chang-Hyun Oh; “Synthesis and *in vitro* antiproliferative activity of new diarylamides and diarylureas containing quinoline nucleus”. 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 17) Byoung-Jun Park, **Mohammed I. El-Gamal**, Hong Seok Choi, Dae Yoon Chi, and

- Chang-Hyun Oh; "New diarylureas and diarylamides possessing 1,3,4-triarylpyrazole scaffold: Design, synthesis, and anticancer evaluation (Part I)". 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 18) Hyun-Jin Kim, **Mohammed I. El-Gamal**, Hong Seok Choi, Yong Sup Lee, and Chang-Hyun Oh; "Design, synthesis, and biological evaluation of new diarylureas and diarylamides possessing 2,3-dihydro-1*H*-pyrrolo[3,2-*b*]quinoline scaffold". 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 19) Mi-Ryeong Kim, Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Hong Seok Choi, Jinsung Tae, and Chang-Hyun Oh; "Synthesis and cytotoxicity of a new series of imidazo[2,1-*b*][1,3]thiazole derivatives". 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 20) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Synthesis and antiproliferative activity of new imidazothiazole compounds". 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 21) Yi Seul Park, **Mohammed I. El-Gamal**, Hong Seok Choi, Dae Yoon Chi, and Chang-Hyun Oh; "New diarylureas and diarylamides possessing 1,3,4-triarylpyrazole scaffold: Design, synthesis, and anticancer evaluation (Part II)". 110th Korean Chemical Society (KCS) national meeting, Busan, Republic of Korea, 2012, Oct. 17th~19th.
- 22) Chang-Hyun Oh, and **Mohammed I. El-Gamal**; "Anticancer diarylpyrazole derivatives as dual inhibitors of ERK pathway and COX-2: Design, synthesis, and biological evaluation". 14th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, Vienna, Austria. 2013, June 25th~28th.
- 23) Chang-Hyun Oh, **Mohammed I. El-Gamal**, Hanan S. Anbar, Hye Jin Chung, Hyun-Il Kim, Young-Jin Cho, Bong Sang Lee, Sun Ahe Lee, Ji Yun Moon, Dong Jin Lee, Dow Kwon, Won-jai Choi, and Hong-Ryeol Jeon; "Olmesartan Cilexetil: A new promising prodrug of Olmesartan". 14th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, Vienna, Austria. 2013, June 25th~28th.
- 24) Hyeon-Lok Jang, **Mohammed I. El-Gamal**, Ho-Yeong Choi, and Chang-Hyun Oh; "Design, synthesis, and antiproliferative activities of new fused coumarin derivatives". 14th Tetrahedron Symposium (ASIA EDITION) - Challenges in Organic and Bioorganic Chemistry, Seoul, Republic of Korea. 2013, October 21st~24th.
- 25) **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din,

- and Chang-Hyun Oh; "Broad-Spectrum Anticancer Diarylureas and Diarylamides Possessing Pyrrolo[2,3-*d*]pyrimidine Scaffold". The 113th General Meeting of the Korean Chemical Society, KINTEX, Goyang, Republic of Korea. 2014, April 16th~18th.
- 26) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, and Chang-Hyun Oh; "Design, synthesis and biological evaluation of novel diarylamide derivatives possessing 1,3,4-oxadiazole as potential anticancer agents". The 113th General Meeting of the Korean Chemical Society, KINTEX, Goyang, Republic of Korea. 2014, April 16th~18th.
- 27) Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, and Chang-Hyun Oh; "Optimization of the reaction conditions in the arylation step of carbazole type light emitting compound synthesis". The 113th General Meeting of the Korean Chemical Society, KINTEX, Goyang, Republic of Korea. 2014, April 16th~18th.
- 28) **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, Mohammed S. Abdel-Maksoud, Hye-Eun Choi, Kyung-Tae Lee, and Chang-Hyun Oh; "Tricyclic fused coumarin sulfonates: Synthesis and evaluation of their inhibitory effects on LPS-induced nitric oxide and PGE₂ productions in RAW 264.7 macrophages". 16th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, Berlin, Germany. 2015, June 16th~19th.
- 29) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "Discovery of new potent BRAF inhibitors possess 5-(pyrimidin-4-yl)imidazo[2,1-*b*]thiazole scaffold and their *in vitro* antiproliferative evaluation". 16th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, Berlin, Germany. 2015, June 16th~19th.
- 30) Mahmoud M. Gamal El-Din, Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, Mohammed S. Abdel-Maksoud, and Chang-Hyun Oh; "Synthesis and *in vitro* antiproliferative activity of new 1,3,4-oxadiazole derivatives possessing sulfonamide moiety". 16th Tetrahedron Symposium - Challenges in Bioorganic & Organic Medicinal Chemistry, Berlin, Germany. 2015, June 16th~19th.
- 31) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "Synthesis, *In vitro* Antiproliferative Activity, and Kinase Inhibitory Effect of New (1-Phenyl-1H-Pyrazol-4-yl)Pyridine Derivatives". 10th AFMC International Medicinal Chemistry Symposium – Innovative Approaches for Drug Discovery & Development. ICC, Jeju, Republic of Korea, 2015, Oct. 18th ~21st.
- 32) Mohammed S. Abdel-Maksoud, Chang-Hyun Oh, **Mohammed I. El-Gamal**, Mahmoud M.

- Gamal El-Din; "Design, Synthesis, *in vitro* antiproliferative evaluation, and kinase inhibitory effects of a new series of imidazo[2,1-*b*]thiazole derivatives". 2015 International Chemical Congress of Pacific Basin Societies (2015 Pacifichem Conference), Dec. 15th~20th, 2015, Honolulu, Hawaii, USA.
- 33) **Mohammed I. El-Gamal**, Hanan S. Anbar and Chang-Hyun Oh; "DESIGN, SYNTHESIS, BIOCONVERSION, AND PHARMACOKINETICS EVALUATION OF NEW ESTER PRODRUGS OF OLMESARTAN". 7th International Conference of Drug Discovery and Therapy (7th ICDDT), University of Sharjah, United Arab Emirates, 2016, Feb. 15th-18th.
- 34) **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "A new series of 1,3,4-triarylpyrazole derivatives: Synthesis, *in vitro* antiproliferative and antiinflammatory activities, and kinase inhibitory effects". 17th Tetrahedron Symposium, Challenges in Biological, Bioorganic, Organic & Medicinal Chemistry, 28 June - 1 July 2016, Sitges, Spain.
- 35) Mahmoud M. Gamal El-Din, **Mohammed I. El-Gamal**, Mohammed S. Abdel-Maksoud, Kyung Ho Yoo, and Chang-Hyun Oh; "Design, Synthesis, and biological evaluation of pyrimidinyl pyrazole derivatives terminating with sulfonamido substituents as potential antiproliferative agents". 17th Tetrahedron Symposium, Challenges in Biological, Bioorganic, Organic & Medicinal Chemistry, 28 June - 1 July 2016, Sitges, Spain.
- 36) Mohammed S. Abdel-Maksoud, **Mohammed I. El-Gamal**, Mahmoud M. Gamal El-Din, and Chang-Hyun Oh; "Design, synthesis, *In vitro* Antiproliferative and Antiinflammatory Activity, and Kinase Inhibitory Effect Of New (Pyrazol-4-yl)Pyridine Derivatives Bearing Sulfonamide Moieties". 17th Tetrahedron Symposium, Challenges in Biological, Bioorganic, Organic & Medicinal Chemistry, 28 June - 1 July 2016, Sitges, Spain.
- 37) **Mohammed I. El-Gamal**, Chang-Hyun Oh, Kyung-Tae Lee, and Daejin Baek; "Design and synthesis of tricyclic and tetracyclic fused coumarin sulfonate derivatives, and their inhibitory effects on LPS-induced nitric oxide and PGE₂ productions in RAW 264.7 macrophages". 253rd American Chemical Society (ACS) National Meeting & Exhibition, April 2nd~6th, 2017, San Francisco, California, USA.
- 38) **Mohammed I. El-Gamal**, Mohammad H. Semreen, Paul A. Foster, and Barry V.L. Potter; "A new series of arylamides possessing sulfonate or sulfamate moieties: Design, synthesis, and biological evaluation as steroid sulfatase enzyme inhibitors". International Conference on Pharmaceutical Drugs, May 15th~17th, 2017, Dubai, United Arab Emirates.
- 39) **Mohammed I. El-Gamal**, Mohammad Ashrafuddin Khan, Hamadeh Tarazi, Hong Seok

Choi, and Chang-Hyun Oh; "Design and synthesis of a novel series of highly potent RAF kinase-inhibiting triarylpyrazole derivatives with potential antiproliferative activity against melanoma". 257th ACS National Meeting & Exposition, March 31st ~ April 4th, 2019, Orlando, Florida, USA.

★ **Oral Presentations:**

- 1) "2010 Korean Oil Chemists' Society International Symposium" as an invited speaker, Seoul, Republic of Korea, 2010, Jul. 9th. The oral presentation's title was "Synthesis of 1*H*-pyrazole-1-carboxamide derivatives and their antiproliferative activity against melanoma cell line".
- 2) 2010 University of Science and Technology (UST) conference in Daejeon, Republic of Korea, 2010, Nov. 10th~11th. The oral presentation's title was "Design, synthesis, and antiproliferative activity of 3,4-diarylpyrazole-1-carboxamide derivatives against melanoma cell line".
- 3) "2011 Korean Oil Chemists' Society International Symposium" as an invited speaker, Seoul, Republic of Korea, 2011, Jul. 8th. The oral presentation's title was "Discovery of a new potent bisamide FMS kinase inhibitor".
- 4) 2011 University of Science and Technology (UST) conference in Daejeon, Republic of Korea, 2011, Sep. 22nd~23rd. The oral presentation's title was "Discovery of a new potent pyrrolo[3,2-*c*]pyridine bisamide FMS kinase inhibitor".
- 5) 2012 University of Science and Technology (UST) conference in Daejeon, Republic of Korea, 2012, Nov. 1st~2nd. The oral presentation's title was "New 3,4-Diarylpyrazole-1-carboxamide Derivatives: Design, Synthesis, Anticancer Evaluation, and Molecular Docking Study".
- 6) 2012 University of Science and Technology (UST) conference in Daejeon, Republic of Korea, 2012, Nov. 1st~2nd. The oral presentation's title was "Discovery of a new anticancer diarylurea derivative possessing pyrrolo[3,2-*c*]pyridine scaffold with multiple-kinase inhibitory effect".
- 7) 2012 University of Science and Technology (UST) conference in Daejeon, Republic of Korea, 2012, Nov. 1st~2nd. The oral presentation's title was "Design, synthesis, and biological evaluation of novel vicinal diaryl heterocycles possessing imidazo[2,1-*b*]thiazole moiety".
- 8) **Mohammed I. El-Gamal**, Mohammad H. Semreen, Ayat E. Abbas, Iman G. Moussa,

Israa A. Younis and Youmna Y. Zaghloul; "DESIGN, SYNTHESIS, STEROID SULFATASE ENZYME INHIBITORY EFFECT, AND *IN VITRO* ANTIPROLIFERATIVE ACTIVITY OF A NEW SERIES OF ARYLAMIDES POSSESSING SULFONATE OR SULFAMATE MOIETIES". 7th International Conference of Drug Discovery and Therapy (7th ICDDT), University of Sharjah, United Arab Emirates, 2016, Feb. 15th-18th.

★ **Papers I have peer-reviewed:**

- 1) BMC-D-12-01154 & BMC-D-12-01154R1, Facile Synthesis and Characterization of Novel Pyrazole-Sulfonamides and Their Inhibition Effects on Human Carbonic Anhydrase Isoenzymes. *Bioorganic & Medicinal Chemistry*.
- 2) BMC-D-12-01275, Synthesis and anticonvulsant activity of biosisoters of trimethadione, *N*-derivative-1,2,3-oxathiazolidine-4-one-2,2-dioxides from α -hydroxyamides. *Bioorganic & Medicinal Chemistry*.
- 3) Ardp.201200357, Synthesis and evaluation of 3,5-diary-4,5-dihydro-1H-pyrazole ethanone derivatives as mushroom tyrosinase inhibitors. *Arch. Pharm. Chem. Life Sci*.
- 4) BMC-D-13-00208, A 2,6,9- hetero-tri-substituted purine inhibitor exhibits potent biological effects against multiple myeloma cells. *Bioorganic & Medicinal Chemistry*.
- 5) BSP-CMCAIAA-2013-38, Protein Kinase C modulates Aurora-kinase inhibition induced by CCT129202 in HMC-1560,816 cell line. *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
- 6) BMC-D-13-00406, Design, Synthesis, and Evaluation of Substituted 6-amide -4-Anilinoquinazoline Derivatives as c-Src Inhibitors. *Bioorganic & Medicinal Chemistry*.
- 7) EJMECH-D-13-00679, Synthesis of three novel series of long chain alkenyl/hydroxyalkenyl substituted 1,3,4-oxadiazolthione/1,2,4-triazolthione/1,2,4-triazolo[3,4-b]-1,3,4-thiadiazine derivatives: in vitro anticancer activity against Hep3 B, MCF 7 and HeLa cells. *European Journal of Medicinal Chemistry*.
- 8) IJOPILS/ART/V1/I9/RES/003, Phytochemical, FT-IR Spectroscopic and Chromatographic Studies in the Aqueous and Methanolic Seed Extract Of *Abelmoschus Esculentus*, *International Journal of Pharmacy and Integrated Life Science*.
- 9) BSP-CMCAIAA-2013-54, DRUG ANALOGS OF COX-2 SELECTIVE INHIBITORS LUMIRACOXIB AND VALDECOXIB DERIVED FROM IN SILICO SEARCH AND OPTIMIZATION, *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
- 10) BMC-D-13-01052, Synthesis, molecular modeling and biological evaluation of 1,3,4-

oxadiazole derivatives containing pyridine and acylhydrazone moieties as potential anticancer agents. *Bioorganic & Medicinal Chemistry*.

- 11) 110-258-1-SM2, Synthesis, characterization and microbial evaluation of metal complexes of Molybdenum with Levofloxacin and Ofloxacin. *Journal of Modern Medicinal Chemistry*.
- 12) BSP-CMCAIAA-2013-57, Zinc-Aceclofenac Complex: Synthesis, Hydrolysis Study and Anti-inflammatory Studies. *Anti-inflammatory & Anti-allergy Agents in Medicinal Chemistry*.
- 13) JPP2013100703, Identification of AuNPs and AuNPs-Lanreotide conjugate and proliferation inhibition MCF-7 and B16 cells *in vitro*. *Journal of Pharmacy and Pharmacology*.
- 14) JPP2013101402, Radiolabeled FMLP is a Valuable Peptide for Diagnostic Imaging. *Journal of Pharmacy and Pharmacology*.
- 15) SciPharm[1310-20], SYNTHESIS AND CHARACTERIZATION OF RELATED SUBSTANCES OF RUPATADINE FUMARATE: AN ANTIHISTAMINE DRUG. *Scientia Pharmaceutica*.
- 16) BMC-D-13-01420, Synthesis of aminoalkyl-substituted coumarin derivatives as acetylcholinesterase inhibitors. *Bioorganic & Medicinal Chemistry*.
- 17) JPP2013121002, A MASS SPECTROMETRY STUDY OF BLAKESLEA TRISPORA MICROBIOLOGICAL SYNTHESIS PRODUCTS, *Journal of Pharmacy and Pharmacology*.
- 18) The effect of lycopene on the PI3K/Akt signalling pathway in prostate cancer, *Anti-cancer Agents in Medicinal Chemistry*.
JPP2014020701, ¹⁷⁵Yb-
- 19) TTHMP as a novel agent for bone pain palliation and substitute of other radiopharmaceuticals, *Journal of Pharmacy and Pharmacology*.
- 20) BSP-CMCAIAA-2014-66, Benefits of Oral and Topical Administration of ROQUETTE CHLORELLA SP. on Skin Inflammation and Wound Healing in Mice, *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
- 21) BMC-D-14-00424, Design, synthesis and biological evaluation of thienopyridinones as Chk1 inhibitors, *Bioorganic & Medicinal Chemistry*.
- 22) 2005-810-20140621-1, Model Experiments Implicate a Benzoquinoneketene Intermediate in Poly-2-hydroxybenzoic Acid Synthesis, *SOP Transactions on Organic Chemistry (STOC)*.

- 23) 972357.v1, Quinolone-3-Aminoesters: A New Class of Antimalarial Agents, *International Journal of Medicinal Chemistry*.
- 24) BSP-CMCACA-2014-309, Epothilone B induces human ovarian cancer OV-90 cell apoptosis via external pathway, *Anti-cancer Agents in Medicinal Chemistry*.
- 25) BSP-CMCACA-2014-355, Synthesis of nitroaromatic compounds as potential anticancer agents, *Anti-Cancer Agents in Medicinal Chemistry*.
- 26) 532609.v1, Design, Synthesis and Biological Evaluation of 1,3,5-Triazine Derivatives as Potential Inhibitors of Dihydrofolate reductase, *International Journal of Medicinal Chemistry*.
- 27) JSCS 6053-OH, Microwave Assisted Synthesis of Some New Coumarin-Pyrazoline Hybrids and Their Antimicrobial Activity, *Journal of Serbian Chemical Society*.
- 28) BMC-D-14-01057, Synthesis of aminoalkyl-substituted aurone derivatives as acetylcholinesterase inhibitors, *Bioorganic & Medicinal Chemistry*.
- 29) JSCS 6091-OH, Synthesis of modified pyridine and bipyridine substituted coumarins as potent antimicrobial agents, *Journal of Serbian Chemical Society*.
- 30) EJMECH-D-14-02113, A facile synthesis and antiproliferative properties of 4-(1H-benzo[d]imidazol-2-yl)-furazan-3-amines, *European Journal of Medicinal Chemistry*.
- 31) BSP-CMCACA-2014-420, Synthesis antitumor evaluation of novel 5-hydrosulfonyl-1H-benzo[d]imidazol-2(3H)-one derivatives, *Anti-cancer Agents in Medicinal Chemistry*.
- 32) 652602.v1, Synthesis of novel substituted α -methylamino derivatives of α -santonin as potential anticancer agents – Eudesmanolide derivatives. *International Journal of Medicinal Chemistry*.
- 33) SYNTHETIC STRATEGIES TOWARDS THE SEX PHEROMONE OF TROGODERMA SPECIES, *Journal of Modern Medicinal Chemistry*.
- 34) Synthesis and *in vitro* cytotoxicity of new 3-(5-methyl-1-aryl-1H-1,2,3-triazol-4-yl)-1-phenyl-1H-pyrazoles, *Journal of Modern Medicinal Chemistry*.
- 35) BE-2014-015-UR-1, BINDING ENERGY CALCULATION SINGLE/ CLUSTER OF PATCHOULI ALCOHOL ISOMERS COMPOUNDS AS COX INHIBITOR SELECTIVE. *Biomedical Engineering*.
- 36) Pazopanib Inhibits Vascular Endothelial Growth Factor Synthesis in Human Retinal Pigment Epithelial Cells, *Journal of Modern Medicinal Chemistry*.
- 37) BMC-D-15-00806, Synthesis of Potent Urease Inhibitors Based on Disulphide Scaffold and Their Molecular Docking Studies, *Bioorganic & Medicinal Chemistry*.
- 38) 2005-1553, Rearrangement of Cyclohepta-1,3,5-trien-7-ylacetonitrile under Basic

- Conditions, *SOP Transactions on Organic Chemistry*.
- 39) An Insight into Drug Repositioning for the Development of Novel Anticancer Drugs. *Current Topics in Medicinal Chemistry*.
- 40) Synthesis of Pyrazole And Thiophene Derivatives Together With Their Antitumor Evaluations. *Journal of Modern Medicinal Chemistry*.
- 41) BSP-CMCACA-2015-653, PROTEASOME INHIBITORS IN MYELOMA, *Anti-cancer Agents in Medicinal Chemistry*.
- 42) 201824.v1, An Unprecedented Straightforward Synthesis of Chiral Pyrrolo[3,4-*b*]quinolone and Pyrrolo[3,2-*b*]quinolone backbones Starting from *trans*-4-Hydroxy-L-proline. *Journal of Chemistry*.
- 43) 2005-1632, Terminal moiety dependency of the cytotoxic potency of Pellynol A from Halichondria Sp., *SOP Transactions on Organic Chemistry (STOC)*.
- 44) BSP-ACAMC-2015-764, Synthetic Halogenated Coumarin Derivatives and Their Anticancer Properties, *Anti-Cancer Agents in Medicinal Chemistry*.
- 45) BSP-ACAMC-2016-780, Novel 2-Thienyl- and 2-Benzothienyl-Substituted 6-(2-Imidazolyl)Benzothiazoles: Synthesis; in vitro Evaluation of Antitumor Effects and Assessment of Mitochondrial Toxicity. *Anti-Cancer Agents in Medicinal Chemistry*.
- 46) BMC-D-16-00184, Quinazolines and quinazolinones as ubiquitous structural fragments in medicinal chemistry: An update on the development of synthetic methods and pharmacological diversification. *Bioorganic & Medicinal Chemistry*.
- 47) MCRE-D-16-00025, Microwave assisted synthesis, biological evaluation and molecular docking of novel chroman scaffolds incorporating spirochromanone framework, *Medicinal Chemistry Research*.
- 48) BMCL-D-16-00420, 6'-O-Caffeoyldihydrosyringin isolated from *Aster glehni* suppresses lipopolysaccharide-induced iNOS, COX-2, TNF- α , IL-1 β and IL-6 expression via AP-1 and NF- κ B inactivation in RAW 264.7 macrophages. *Bioorganic & Medicinal Chemistry Letters*.
- 49) BSP-ACAMC-2015-740, An overview of the synthetic routes to the anticancer drugs. *Anti-Cancer Agents in Medicinal Chemistry*.
- 50) BMCL-D-16-00811, Synthesis of N-Acylamine-substituted New Flavones and their Biological Evaluation against Human Cancer Cells, *Bioorganic & Medicinal Chemistry Letters*.

- 51) JDCT-16-CR-104, Propolis Use for Treatment Alternative Onychomycosis: Case Report. *Journal of Drug Development and Clinical Trials*.
BSP-ACAMC-2016-871, Pyrroles and Fused Pyrrole Derivatives as Novel
- 52) Anti-Cancer Agents, *Anti-Cancer Agents in Medicinal Chemistry*.
Structural insights and metabolic interactions of the chemotherapeutic agents- vinca
- 53) alkaloid derivatives with CYP3A4 & CYP3A5, *Anti-Cancer Agents in Medicinal Chemistry*.
RA-ART-09-2016-024350, Synthesis and biological evaluation of N-acylated tyramine
- 54) sulfamates containing C-F bonds as steroid sulfatase inhibitors, *RSC Advances*.
ardp.201600308, Design, Synthesis, Estrogenic And Antiestrogenic Activities of Some
- 55) Triarylpyrazole Derivatives, *Archiv der Pharmazie*.
REFFIT_2016_203 & REFFIT_2016_203_R1, New resource-efficient and green
- 56) synthesis methods for biologically active derivatives of urea, *Resource-Efficient Technologies*.
Synthesis and biological evaluation of 1,3,4-thiadiazole linked phthalimide derivatives as
- 57) anticancer agents, *Letters in Drug Design & Discovery*.
IJPSDR-16-RA-113, In silico estimation of skin concentration of dermally metabolized
- 58) chemicals. *International Journal of Pharmaceutical Sciences and Developmental Research*.
OL-12144-175639, New dammarane-type triterpene ginsenoside-Rg18 from Panax
- 59) ginseng root inhibits cell proliferation via induction of cell cycle arrest at the G1 phase in lung cancer A549 cells, *Oncology Letters*.
BSP-ACAMC-2016-HT32-1, A comparison of fucoidan conjugated to paclitaxel and
- 60) curcumin for the dual delivery of cancer therapeutic agents. *Anti-Cancer Agents in Medicinal Chemistry*.
UAE Graduate Students Research Conference 2017 (UAEGSRC'17), paper
- 61) #1570338245, Contribution of IncX3 Type Plasmids to the Emergence of NDM-5 Producer Enterobacteriaceae in Abu Dhabi Emirate.
UAE Graduate Students Research Conference 2017 (UAEGSRC'17), paper #
- 62) 1570339010, Coating Nanoparticles with Bovine Serum Albumin.
EJMECH-D-17-00497, Structure-activity relationship study and optimisation of 2-
- 63) aminopyrrole-1-benzyl-4,5-diphenyl-1H-pyrrole-3-carbonitrile as a broad spectrum metallo- β -lactamase inhibitor. *European Journal of Medicinal Chemistry*.
EJMECH-D-17-00497R1, Structure-activity relationship study and optimisation of 2-

- 64) aminopyrrole-1-benzyl-4,5-diphenyl-1H-pyrrole-3-carbonitrile as a broad spectrum metallo- β -lactamase inhibitor. *European Journal of Medicinal Chemistry*.
IJP-17-RA-119, Antibiotic use and resistance in the private sector in Namibia.
- 65) *International Journal of Pharmacovigilance*.
BSP-CRP-2017-119, Biological evaluation of ^{99m}Tc -HYNIC-EDDA/tricine-(Ser)₃-D4
- 66) peptide for tumor targeting. *Current Radiopharmaceuticals*.
BSP-AIAAMC-2017-158, Mesuaferriin-A: Bio active flavonoid isolated from bark of
- 67) Mesuaferria .L as a potential therapeutic agent for inflammation. *Anti-inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
6534758, The Topological Variable Computation for A Special Type of Cycloalkanes.
- 68) *Journal of Chemistry*.
SOJMID-17-RW-206, Overuse of Antibiotics and Antibiotic Resistance in Medical
- 69) Applications Featuring Carbapenemase Resistant Enterobacteriaceae (CRE). *SOJ Microbiology & Infectious Diseases*.
EJMECH-D-17-01976, Rhodanine as Scaffold for Development of Metallo- β -Lactamases
- 70) Inhibitors. *European Journal of Medicinal Chemistry*.
HERMED-D-17-00531R2, Ferula species: A rich source of antimicrobial compounds,
- 71) *Journal of Herbal Medicine*.
IJPSPDR-17-RA-121, In-silico analysis of tenidap and its derivative as a novel 5-
- 72) lipoxygenase inhibitor, *International Journal of Pharmaceutical Sciences and Developmental Research*.
BSP-CRP-2017-136. Radiosynthesis and modified quality control of O-(2-
- 73) [^{18}F]fluoroethyl)-L-tyrosine ([^{18}F]FET) for brain tumor imaging. *Current Radiopharmaceuticals*.
- 74) Intellectual Property in Chemistry: A Guide to Register a Patent for Graduate Students and Postdoctoral Scholars. **Book Proposal, Springer**.
- 75) BMC_2017_1559, The Role of 2-Substituted Benzimidazoles As Targeted Cancer Therapy, *Bioorganic & Medicinal Chemistry*.
- 76) BSP-CPSP-2017-HT8-7, Management of Adverse Effects from Medications Used to Treat Substance Use Disorders, *Current Psychopharmacology*.
- 77) BSP-LDDD-2017-1947, Synthetic aspects and first-time assessment of 2-amino-1,3-selenazoles against Mycobacterium tuberculosis, *Letters in Drug Design and Discovery*.
- 78) BSP-CPSP-2017-129, Neurobehavioral effects of β -Escin. *Current Psychopharmacology*.

- 79) BSP-ACAMC-2017-1311, Anchorage of curcumin onto PVP enhances anti-tumor effect of cucumin. *Anti-Cancer Agents in Medicinal Chemistry*.
- 80) BMS-AIAAMC-2017-9, Synthesis, Characterization and Molecular Docking Studies of Novel N-(benzimidazol-1-ylmethyl)-4-chlorobenzamide Analogues for Potential Anti-inflammatory and Antimicrobial Activity. *Anti-inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
- 81) EJMECH-D-17-02888R1, Design and Biological Evaluation for New Type II B-RafV600E Inhibitors. *European Journal of Medicinal Chemistry*.
- 82) BJBAS_2017_440, Synthesis, spectroscopy characterization and biological activities of some novel 1-(3-(N,N-dimethylamino)-1-(5-substituted thiophene-2-yl) propylidene semicarbazone Mannich base derivatives. *Beni-Suef University Journal of Basic and Applied Sciences*.
- 83) EJMECH-D-17-02063, New Developments in Non-Quinolone-Based Inhibitors. *European Journal of Medicinal Chemistry*.
- 84) BSP-ACAMC-2018-HT36-6, Spectroscopic and in silico DNA binding studies on the interaction of some new N-substituted rhodanines with calf-thymus DNA: In vitro anticancer activities. *Anti-Cancer Agents in Medicinal Chemistry*.
- 85) ECPT-18-RA-224, A Prospective Study to Assess the Severity and Outcome of Poisoning with Auramine-O and Malachite Green Dye. *EC Pharmacology and Toxicology*.
- 86) ECPT-18-RA-256, Dopamine D2 Receptor Radiopharmaceutical: I-123-Epidepride Toxicology and Preclinical SPECT Image. *EC Pharmacology and Toxicology*.
- 87) J4017, Antioxidant activities of γ -oryzanol rich extracts from riceberry rice bran, 5th International Conference on Advances in Biology and Chemistry (ICABC).
- 88) BMS-ACAMC-2018-145, An Inventive Report of Inducing Apoptosis in Non Small Cell Lung Cancer (NSCLC) Cell Lines by Transfection MiR-4301. *Anti-Cancer Agents in Medicinal Chemistry*.
- 89) ECPT-18-RA-294, The Level of Pesticide Residues in Cucumber Fruits Collected from Central Vegetable Markets in Khartoum State. *EC Pharmacology and Toxicology*.
- 90) PAC-0147-2018, Development of Benzo[4,5]imidazo[2,1-b]thiazole Derivatives as Potent Epidermal Growth Factor Receptor Inhibitors: Design, Synthesis and Biological Activity. *Polycyclic Aromatic Compounds*.
- 91) BMS-ACAMC-2018-HT5-444-3, Synthesis of thiazolyl-pyrazole linked benzothiazole

- derivatives as cytotoxic and anti-infective agents. *Anti-Cancer Agents in Medicinal Chemistry*.
- 92) BMS-CRP-2018-12, Biochemical and histopathological evaluation of the radioprotective effects of melatonin against Gamma ray-induced skin damage in rats. *Current Radiopharmaceuticals*.
- 93) BMS-AIAAMC-2018-38, Screening of Anti-inflammatory Activity from Soft Coral extracts Origin Palu Bay, Central Sulawesi, Indonesia. *Anti-inflammatory & Anti-Allergy Agents in Medicinal Chemistry*.
- 94) BMS-ACAMC-2018-245, Correlation between Antioxidant/Antimutagenic and Antiproliferative Activity of Some Phytochemicals; A Prediction Model. *Anti-Cancer Agents in Medicinal Chemistry*.
- 95) BMS-ACAMC-2018-246, Anti-tumor mechanisms of novel 3-(4-substituted benzyl)-5-isopropyl-5-phenylhydantoin derivatives on human colon cancer cell line. *Anti-Cancer Agents in Medicinal Chemistry*.
- 96) ardp.201900024, Design, synthesis and biological evaluation of novel 3-(thiophen-2-ylthio)pyridine derivatives as potential multi-target anticancer agents. *Archiv der Pharmazie*.
- 97) BMS-ACAMC-2018-202, Anti-cancer effects of a neutral triterpene fraction from Ganoderma lucidum and its active constituents on SW620 human colorectal cancer cells. *Anti-Cancer Agents in Medicinal Chemistry*.
- 98) EJMECH-D-19-00123, Heterodimeric Rifampicin-Tobramycin conjugates break intrinsic resistance of Pseudomonas aeruginosa to Doxycycline and Chloramphenicol in vitro and in a Galleria mellonella in vivo model. *European Journal of Medicinal Chemistry*.
- 99) BMS-CRP-2019-3, The screening of renoprotective agents by ^{99m}Tc-DMSA in preclinical studies. *Current Radiopharmaceuticals*.
- 100) BMS-ACAMC-2019-64, In Vitro Antitumor Evaluation of Some Hybrid Molecules Containing Coumarin and Quinolinone Moieties. *Anti-Cancer Agents in Medicinal Chemistry*.
- 101) BIOORG_2019_452, Investigation of potent inhibitors of cholinesterase based on thiourea and pyrazole derivatives: Synthesis, inhibition assay and molecular modeling studies. *Bioorganic Chemistry*.
- 102) In Silico Study (Molecular Docking and Toxicity Prediction) of Vemurafenib Derivatives As Antimelanoma Agents. *Journal of Mathematical and Fundamental Sciences*.

- 103) BMS-ACAMC-2019-119, Anticancer activity of platinum (II) complex with 2-benzoylpyridine by induction of DNA damage, S-phase arrest, and apoptosis. *Anti-Cancer Agents in Medicinal Chemistry*.
- 104) BIOORG_2019_708, 4-Thioflavonols as Potential Acetylcholinesterase and Butyrylcholinesterase Inhibitors: Synthesis, Structure-Activity Relationship and Molecular Docking Studies. *Bioorganic Chemistry*.

★ **I have been an editorial board member in the following journals:**

- 1) *Journal of Modern Medicinal Chemistry*
<http://www.synergypublishers.com/editorial-board-jmmc>
- 2) *Anti-cancer Agents in Medicinal Chemistry* (impact factor: 2.598, 5-year impact factor: 2.714)
<http://benthamscience.com/journals/anti-cancer-agents-in-medicinal-chemistry/editorial-board/#top>
- 3) *International Journal of Pharmacy and Technology*
<http://www.ijptonline.com/editorial-board>
- 4) *International Journal of Pharmacy and Biomedical Sciences (IJPBS)*
<http://www.pharmainterscience.com/IJPBS-Editorial-Board.html>
- 5) *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry*
<http://benthamscience.com/journals/anti-inflammatory-and-anti-allergy-agents-in-medicinal-chemistry/editorial-board/#top>
- 6) *Journal of Advanced Pharmaceutical Science and Technology (JAPST)*
http://openaccesspub.org/journals/editorial_board.php?jid=6
- 7) *International Journal of Pharmaceutical and Life Sciences*
http://www.ijlsbd.com/index_files/Page1084.htm
- 8) *International Journal of Pharmaceutical and Integrated Life Sciences (IJOPILS)* (impact

factor 1.9)

<http://www.ijopils.com/#!/editorial-board/c1932>

9) *International Journal of Innovations in Pharmaceutical Sciences*

www.scientificviewers.com/newsdetails.php?id=13

<http://www.scientificviewers.com/editor-board.php>

10) *Pharmacologia (United Kingdom)*

<http://pharmacologia.co.uk/eboard.php>

11) *International Journal of Pharmaceutical Sciences and Developmental Research*

[http://www.peertechz.com/Pharmaceutical-Sciences-Developmental-](http://www.peertechz.com/Pharmaceutical-Sciences-Developmental-Research/editorialboard.php)

[Research/editorialboard.php](http://www.peertechz.com/Pharmaceutical-Sciences-Developmental-Research/editorialboard.php)

12) *Peertechz Journal of Medicinal Chemistry and Research*

<http://www.peertechz.com/Medicinal-Chemistry-Research/editorialboard.php>

13) *Elyns Journal of Pharmaceutical Sciences*

<http://elynsgroup.com/journal/editorial-board/elyns-journal-of-pharmaceutical-research>

14) *Current Trends in Medicinal Chemistry*

<http://gavinpublishers.com/current-trends-in-medicinal-chemistry-editorial-board/>

15) *Current Updates in Endocrinology and Diabetes*

<http://oprscience.com/department/current-updates-in-endocrinology-and-diabetes/>

16) *International Journal of Research in Pharmacy and Biosciences*

<http://www.ijrpb.org/editorial-board>

17) *International Journal of Advanced Research in Chemical Science*

<https://www.arcjournals.org/international-journal-of-advanced-research-in-chemical-science/editorial-board>

18) *American Research Journal of Chemistry*

<https://www.arjonline.org/physical-sciences-journals/american-research-journal-of-chemistry>

19) *American Research Journal of Pharmacy*

<https://www.arjonline.org/engineering-journals/american-research-journal-of-Pharmacy>

20) *International Journal of Research in Pharmacy and Biosciences*

<http://www.iirpb.org/editorial-board>

21) *International Journal of Chromatography and Separation Techniques*

<http://gavinpublishers.com/international-journal-of-chromatography-and-separation-techniques-editorial-board%20/>

22) *EC Pharmacology and Toxicology*

<https://www.ecronicon.com/ECPT-EB.php>

23) *Medicine Research*

<http://www.medicineresearch.org/EN/column/column261.shtml>

24) *Journal of Medicinal Chemistry and Studies*

<http://www.annexpublishers.com/journals/journal-of-medicinal-chemistry-and-studies/member.php?eb=VFZSRmQwNW5QVDA9>

25) *Open Access Journal of Oncology and Medicine*

<http://lupinepublishers.us/oajom/editorial-committee.php>

26) *World Journal of Advance Medical and Pharmaceutical Research*

<http://wjamp.com/Home/Editorial>

27) *Journal of Pharmacy Practice and Pharmaceutical Sciences*

<https://ocimumpublishers.com/journal/pharmacy-practice-pharmaceutical-sciences/board-members/5>

28) *Global Scientific Research Journal of Diabetes*

29) *World Journal of Advance Medical and Pharmaceutical Research*

<http://wjampr.com/Home/Editorial>

★ **Paper I have handled as editor:**

- 1) JAPST-13-233, Polymer Technology, *Journal of Advanced Pharmaceutical Science and Technology (JAPST)*.
- 2) IJCST-112, Validation of Analytical Methods: A Review, *International Journal of Chromatography and Separation Techniques (IJCST)*.

★ **Research Grants Earned:**

1) Title: Design and synthesis of new sulfamate and sulfonate derivatives as steroid sulfatase inhibitors for treatment of estrogen- and androgen-dependent cancers.

Awarding body: Boehringer Ingelheim Pharmaceutical Company-University of Sharjah.

Amount awarded: 10,000 AED.

From 1/1/2015 to 31/8/2015

This project is based on collaboration between the University of Sharjah, College of Pharmacy and Boehringer Ingelheim Pharmaceutical Company to do student-based research projects.

2) Title: Design, synthesis, and *in vitro* antiproliferative activity of new sulfonate derivatives possessing naphthyl moiety.

Awarding body: Boehringer Ingelheim Pharmaceutical Company-University of Sharjah.

Amount awarded: 14,000 AED.

From 1/1/2016 to 31/8/2016

This project is based on collaboration between the University of Sharjah, College of Pharmacy and Boehringer Ingelheim Pharmaceutical Company to do student-based research projects.

3) Title: Design and synthesis of novel sulfonate and sulfamate derivatives possessing benzofuran or benzothiophene nucleus as steroid sulfatase (STS) inhibitors for treatment of androgen- and estrogen-dependent cancers.

Awarding body: University of Sharjah.

From 1/9/2015 to 28/2/2017

Amount awarded: 20,000 AED.

4) Title: Design, synthesis, molecular modeling study, and biological evaluation of a series of imidazothiazoles as potential anticancer agents through kinase and/or COX-2 inhibition.

Awarding body: University of Sharjah (competitive grant).

From 1/11/2016 to 31/10/2018.

Amount awarded: 80,000 AED.

5) Title: Design, synthesis, and biological evaluation of new sulfonate and sulfamate derivatives possessing cycloheptanecarboxamide moiety.

Awarding body: Boehringer Ingelheim Pharmaceutical Company-University of Sharjah.

From 1/11/2016 to 31/8/2017.

Amount awarded: 13,300 AED.

6) Title: Design and synthesis of novel indole derivatives as potential anticancer agents.

Awarding body: Al-Jalila Foundation, Dubai, United Arab Emirates.

From 1/1/2018 to 31/12/2019.

Amount awarded: **280,000 AED.**

7) Title: Design, synthesis, and biological evaluation of sulfonate and sulfamate derivatives of Raloxifene as potential anticancer agents.

Awarding body: University of Sharjah (competitive grant).

From 18/2/2018 to 17/2/2020.

Amount awarded: 80,000 AED.

★ **Other Conferences and Symposia attended:**

- 104th Korean Chemical Society national meeting, Daejeon, Republic of Korea, 2009, Oct. 29th~30th.
- Participated in Tanta University 1st conference of pharmaceutical sciences: Pharmaceutical education and society requirements, Tanta University, Egypt, 2009, Nov. 18th~19th, with an oral presentation. [Presentation title: Synthesis and Antiinflammatory Activity of Novel (Substituted)Benzylidene Acetone Oxime Ether Derivatives: Molecular Modeling Study].
- 2010 International symposium of the intelligent drug delivery system at Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea, 2010, May 6th~7th.

- 5th Purdue-KIST Symposium “Molecular Imaging and Nanomedicine for Theragnosis” at Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea, 2010, Jun. 28th.
- 2010 Korea Institute of Science and Technology (KIST)-University of California, Los Angeles (UCLA) Joint Symposium on “Neuroscience and Molecular Imaging” at KIST, Seoul, Republic of Korea, 2010, Sep. 13th.
- 106th Korean Chemical Society national meeting, Daegu, Republic of Korea, 2010, Oct. 14th~15th.

❖ **Awards:**

- Egyptian Pharmacists Syndicate award for excellence for outstanding M.Sc. holders in the field of Pharmacy (Jun. 2008).
- Best research assistant and master’s student at the department of medicinal chemistry, Faculty of Pharmacy, University of Mansoura in 2006/2007.
- College excellence award that is gifted to outstanding students during all the five undergraduate years, Faculty of Pharmacy, University of Mansoura (May 2004).
- Ranked First, undergraduate class 2003, B.Sc (excellence with honor), Faculty of Pharmacy, University of Mansoura, Egypt.
- Dakahlia Pharmacists Syndicate award for excellence for outstanding students (Sep. 2003).
- **International R&D Academy (IRDA) Excellence Award:** for my research achievements in 2011. [Korea Institute of Science and Technology (KIST), Feb. 10th, 2012, on the occasion of KIST’s 46th anniversary commemorative ceremony].
- **Academic Excellence Award:** for my research achievements over the Ph.D. course. [Korea Institute of Science and Technology (KIST), Aug. 8th, 2012, at the commencement ceremony].
- **Excellence Award:** for my research achievements over the Ph.D. course. [University of Science and Technology (UST), Aug. 17th, 2012, at the commencement ceremony].
- **2012 UST Research Paper Award - Best Award of Paper Field:** for my papers published in 2011. [University of Science and Technology (UST), Aug. 29th, 2012].
- **Publication of our review article in *Medicinal Research Reviews* has been reported on the official website of Biological Research Information Center (BRIC) in the Republic of Korea.**
http://bric.postech.ac.kr/myboard/read.php?id=32725&Page=1&Board=hbs_treatise&FindIt=&FindText=&skin=hbs_treatise&idauthorid=22349

- Annual Research Incentive Award 2016-2017, May 2017, University of Sharjah, United Arab Emirates.
- Annual Distinguished Teaching Incentive Award 2017-2018, May 2018, University of Sharjah, United Arab Emirates.

✱ **Employment History:**

★ **Associate Professor of Medicinal Chemistry**

Date of employment: Jan. 15th, 2019 till now.

Name of employer: College of Pharmacy, University of Sharjah, Sharjah, UAE.

★ **Associate Professor of Medicinal Chemistry**

Date of employment: Jan. 23rd, 2019 till now (on leave).

Name of employer: Faculty of Pharmacy, University of Mansoura, Mansoura, Egypt.

★ **Assistant Professor of Medicinal Chemistry**

Date of employment: Sep. 1st, 2015 till Jan. 14th, 2019.

Name of employer: College of Pharmacy, University of Sharjah, Sharjah, UAE.

★ **Assistant Professor of Medicinal Chemistry**

Name of employer: College of Pharmacy, University of Sharjah, Sharjah, UAE.

★ **Star Postdoctoral Fellow of Medicinal Chemistry**

Date of employment: Sep. 2012-Aug. 2014

Name of employer: Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea.

★ **Adjunct assistant professor of Medicinal Chemistry**

Sep. 2012 ~Aug. 2014

Name of employers: Kyung Hee University & University of Science and Technology, Republic of Korea.

★ **Assistant professor of Medicinal Chemistry**

- Date of employment: Sep. – 2013 ~ Now
- Name of employer: Faculty of Pharmacy – University of Mansoura – Egypt.

★ **Assistant lecturer of Medicinal Chemistry**

- Date of employment: Mar. – 2008 ~ Feb. 2009
- Name of employer: Faculty of Pharmacy – University of Mansoura – Egypt.

★ **Demonstrator of Medicinal Chemistry**

- Date of employment: Dec. – 2003
- Name of employer: Faculty of Pharmacy – University of Mansoura – Egypt.

❖ *Main Duties:*

- Research assistant (Synthetic Medicinal Chemistry).
- Teaching practical Medicinal and Pharmaceutical Chemistry courses to undergraduate and postgraduate students.
- Preparation of practical lessons, including preparation of materials and chemicals, theoretical discussions with students, applying calculations for quantitative assays and preparation of laboratories.
- Conducting lectures using modern presentation techniques such as data show.

* **Other Activities:**

- Member of tutorial and students service activities.
- Member of the syndicate of Egyptian pharmacists.
- Member of teaching development center and quality assurance and accreditation program teams in the Faculty of Pharmacy, University of Mansoura since March 2008.
- Attended a number of development programs in the fields of "Development of Thinking Skills", "Effective Presentation skills", "Effective Communication skills", "Scientific Research Systems", "Research Ethics" and "Career Ethics".
- Attended the training program of "University teacher education program" in University of Mansoura, 2008, May 3rd~13th.
- Attended a workshop on "NMR for Non-Spectroscopists". Part I "From scratch" at Faculty of Pharmacy, University of Mansoura, 2008, Aug. 27th~28th.
- Attended a workshop on "NMR for Non-Spectroscopists". Part II "FT NMR and 2D-Domain" at Faculty of Pharmacy, University of Mansoura, 2008, Sep. 10th~11th.
- Attended a workshop on "Scifinder Scholar, part of the process" at Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea in March 2009.
- Attended 2 workshops about "Reaxys" at Korea Institute of Science and Technology (KIST), Seoul, Republic of Korea, 2011, Nov. 8th and 2012, Mar. 29th.

- Attended different useful seminars and lectures such as "Molecular Modeling", "Laboratory Safety", "Drug Abuse", "Development of Pharmacy Practice", "Design and Synthesis of c-Met Kinase Inhibitors (2009, Jul. 15th)", "Hsp90 as a target for anticancer drug development (2009, Sep. 21st)", "Hormonal Regulation of Hepatic Drug-Metabolizing Enzymes (2009, Sep. 30th)", and "New Drug Therapies Using Various Bcr-Abl Tyrosine Kinase Inhibitors in Leukemia (2010, Feb. 17th)".
- Member of the Korean Chemical Society (KCS) since February 2011.
- Attended a lecture for Prof. Dr. **Robert H. Grubbs**, Nobel laureate in chemistry 2005, at KIST, Seoul, Republic of Korea. The lecture title was "The Magic of Olefin Metathesis".
- **Program Technical Committee member, International Conference on Pharmaceutical Sciences 2015 (ICPS 2015) <http://thescienceone.com/icps/committees.php>, Jan. 21st-23rd 2015, Dubai, UAE.**
- **Member & Ambassador of the Asian Council of Science Editors (ACSE), <http://theacse.com/ambassadors.php>.**
- **Organization Committee Member, International Conference on Pharmaceutical Drugs, May 15th-17th, 2017, Dubai, United Arab Emirates.**
- **Technical Committee Member, 2017 4th International Conference on Advances in Biology and Chemistry (ICABC 2017), Singapore, Aug. 21st-23rd, 2017. <http://icabc.org/com.htm>**