CURRICULUM VITAE
Ahmed Mahmoud Alafeefy, Ph.D.

Nationality: Egyptian. Birth date: 27/12/ 1960.

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Mailing Address: Current: Dept. of Pharmaceutical Chemistry and Pharmacology, Faculty of Pharmacy, UiTM, 42300, Puncak Alam, Selangor Malaysia**.**

Professional Appointments:

Assistant Professor of Chem., Faculty of Science, International Islamic University, 25200, Kuantan, Pahang, Malaysia, 2016.

Associate Professor of Pharm. Chem., Faculty of Pharmacy, Prince Sattam bin Abdulaziz, University, 2015.

Associate Professor of Pharm. Chem., Faculty of Pharmacy, Salman bin Abdulaziz, University, 2012.

Assistant Professor of Pharm. Chem., Faculty of Pharmacy, Salman bin Abdulaziz, University, 2010-till now.

Assistant Professor of Pharm. Chem., Faculty of Pharmacy, King Saud University, 2008.

Research Associate of Pharm. Chem., Faculty of Pharmacy, King Saud University, 1992-2007.

Assistant lecturer of Pharm. Chem. Faculty of Pharmacy, Al-Azhar University, 1990-1992.

The Ph.D & MS thesis titles:

Ph.D. Pharmaceutical Sciences [Pharm. Org. Chem.], Helwan University, August 28, 2005.

Dissertation: "Synthesis of Some New Iodoquinazoline Derivatives for Biological Screening".

M.Sc. Pharmaceutical Sciences [Pharm. Chem.], Al-Azhar University, Feb. 28, 1990.

Dissertation: "Synthesis of Some New 6-Iodoquinazoline Derivatives as Antimicrobial agents".

Awards:

1- Faculty of Pharmacy Dean's Award of for the best Researcher (2013).
2- Award from Head of Pharmaceutical Chemistry Department for the best Researcher (2013).
3- Award from (Marques Who's Who) in the world for outstanding achievement in the area of Pharmaceutical Chemistry. (2012 & 2013).
4- Award for from King Abdul-Aziz city for sciences and technology for presenting "Targeting Cancer Metabolism, a Fragment Based Approach towards Bi-Functional Inhibition of the Key Glycolytic Enzyme *h*LDH. (2013).

Current Activities:

Teaching Experience:

Medicinal, analytical and organic chemistry courses, both theoretical and practical, for undergraduate and graduate students.

❖ **Undergraduate**

1. Organic Medicinal Chemistry: A standard course offered to the third and fourth year class, Faculty of Pharmacy. Emphasis is on uses, synthesis, and correlation of properties, structure and biological activity for compounds of medicinal and pharmaceutical importance.
2. Pharmaceutical Standards of Pharmaceutical Compounds: A standard course offered to the fourth year class, which deals with official pharmacopeial limits

and standards for drug evaluation, including methods of preparation, quantitative and qualitative assays.

3. Pharmaceutical analysis: A basic course offered to the first and second year class, which covers functional group, aromatic, polycyclic, heterocyclic and carbohydrate chemistry.

❖ **Graduate**

1. Practical Spectroscopic Methods of Identification: A course offered to the graduate and drug analysis diploma students emphasizing on application of instrumental methods used in structural elucidations including IR, UV, Mass Spectrometry and NMR Spectroscopy.
2. Practical Modern Synthetic Reactions: A course designed to discuss some new reactions and mechanisms in organic chemistry with special emphasis on reactions related to the synthesis of pharmaceutical compounds.
3. Pharmaceutical Literature: A course designed to familiarize the students with the current pharmaceutical and medicinal literature and their use.

❖ **Current Research Interests**

❖ The application of modern methods and techniques for the development of drugs to combat cancer and viral diseases.

❖ The development of a biochemical rationale for the preparation of antitumor drugs focusing on qualitative differences between normal and cancerous cells.

❖ The development of some of the biologically active antiviral, anticancer and antioxidants from natural sources.

Memberships

- Active Member, # 260012, Since December 31, 2012 in the American Association for Cancer Research. February 28, 2011.
- The American Chemical Society since 1995.
- The Egyptian Syndicate of Pharmacists since 1984.
- The Egyptian Pharmaceutical Society since 1983.
- Malaysian Academy of Cancer Research 2019.

- The Malaysian Society of Pharmacology and Physiology (MSPP) 2021.

Funded Research Projects:

1. **"Design, Synthesis and Carbonic Anhydrase IX& XII Inhibitory Activity of New Quinazoline Derivatives as Novel Antitumor Agents". Ahmed M. Alafeefy,** Alkatani AA, Al-Tamimi, AS, Claudiu T. Supuran Prince Sattam bin Abdulaziz University 2014-2015; Code Number: 2014-03-2048. (150000 SR).
2. **Targeting Cancer Metabolism: A Fragment Based Approach Towards Bi-Functional Inhibitors of the Key Glycolytic Enzyme *h*LDH-A. Ahmed M. Alafeefy,** Hatem A. Abdel-Aziz, Mohamed AA., John E. Moses, Amani EA. King Abdulaziz City for Science and Technology 2012; Code Number: 12-MED2980-54. (2000000 SR).
3. **"New Strategy Towards New Era of Antitumour Agents Part-2"** **Ahmed M. Alafeefy,** Saleh I. Alqasoumi. Salman Bin Abdulaziz University; 2012; Code Number: 12-SAU-09-01.
4. **"New Strategy Towards New Era of Antitumour Agents Part-1"** **Ahmed M. Alafeefy,** Saleh I. Alqasoumi. Salman Bin Abdulaziz University; 2012; Code Number: 12-SAU-18-02.
5. **"Synthesis and Carbonic Anhydrase Inhibitory Activity of New Quinazoline Derivatives as Novel Antitumor Agents". Ahmed M. Alafeefy,** Nabila A. Al-Jaber, Hatem A. Abdel-Aziz, Claudiu T. Supuran King Abdulaziz City for Science and Technology 2011; Code Number: 11-MED1874-02. ((2000000 SR).
6. **"Novel Quinazoline Derivatives as Multiple Cancer Pathways Inhibitors". Ahmed M. Alafeefy,** Saleh I. Alqasoumi, A. E. Ashour, Mashael M. Ashebaili. King Abdulaziz City for Science and Technology 2010; Code Number: 10-MED1188-02. (2000000 SR).
7. **"Synthesis of Some New Quinazoline Analogues as Potential Antitubercular Agents."** O.A. Al-Dheeb, **Ahmed M. Alafeefy**. College of Pharmacy, Research Center, King Saud University, 2008, Riyadh, Saudi Arabia.

Submitted Research Projects:

1. Novel Quinazoline-Based Carbonic Anhydrase IX Inhibitors (CAI IX) as Potential Antitumor Agents (Sept. 2013).
2. A New Class of Metal-Based Sulfonamides as Novel Anticancer, antitumor and Carbonic Anhydrase Inhibitors, Design, Synthesis and Biological Evaluation (April 2013)

Participation in Funded Research Projects:

1. "Synthesis and Investigation of Novel Shelf-Stable Brain –specific MAO Inhibitors." A.M. Al-Obaid. H.A. Farag, A.A. Khalil, O.A. Al-Shabanah, S.G. Abdel-Hamide, H.A. El-Kashef, H.S. Ahmed, A.M. Alafeefy, R.A. Gadkariem, H.I. El-Subbagh. College of Pharmacy, Research Center, King Saud University, 1999, Riyadh, Saudi Arabia.
2. "Synthesis and Anticonvulsant Activity of Some New Nitrogenous Heterocycles." O.A. Al-Dheeb, H.I. El-Subbagh, O.A. Al-Shabanah, S.G. Abdel-Hamide, A.M. Alafeefy. College of Pharmacy, Research Center, King Saud University, 2004, Riyadh, Saudi Arabia.

International Collaboration:

1. **United States of America.**

a. **Swenson Erik, Ph.D.** Department of Veterans Affairs, Pulmonary and Critical Care Medicine, VA Puget Sound Health Care System, University of Washington, 1660 South Columbian Way, Seattle, WA, USA. E-mail: eswenson@u.washington.edu.

b. **David Merkler, Ph.D.** Professor of Chemistry, Department of Chemistry, University of South Florida 4202 E. Fowler Ave., CHE 205 Tampa, FL 33620 USA. E-mail: merkler@usf.edu

2. **United Kingdom:**

a. John Moses, Ph.D. Associate Professor and Reader in Chemical Biology School of Chemistry. University of Nottingham, Nottingham NG7 2RD, England. john.moses@nottingham.ac.uk
b. Rahman Mirza, Ph.D. Lecturer in Medicinal Chemistry, Institute of Pharmaceutical Sciences, King's College London, Room Number 113A, Britannia House, London SE1 1DB. E-mail: k.miraz.rahman@kcl.ac.uk (KMR)

3. **France:**

   Jean-Yves WINUM, Ph.D. Institut des Biomolécules Max Mousseron, 34296 Montpellier–France. E-mail: jean-yves.winum@univ-montp2.fr

4. **Germany:**

   Michael Wiese. Ph.D. Pharmaceutical Institute University of Bonn An der Immenburg 4 53121 Bonn. E-mail: Germanmwiese@uni-bonn.de

5. **Italy:**

   a. Claudiu T. Supuran. Ph.D. University of Florence, e-mail: claudiu.supuran@unifi.it.
   b. Giuseppina De Simone. Ph.D. Istituto di Biochimica delle Proteine-CNR, Via P. Castellino 111, 80131 Napoli, Italy. E-mail: c.capasso@ibp.cnr.it.

6. **Russia:**

   Raivis Zalubovskis. Ph.D. Latvian Institute of Organic Synthesis Aizkraukles 21, LV-1006, Riga, Latvia. E-mail: raivis@osi.lv

Conferences

1. ASEAN Emerging Researcher Conference Nov. 10th 2019; attended.
2. 1st MACR SCIENTIFIC CONFERENCE 3-4 Dec. 2019. Research article Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity.
3.
4. Invited Speaker "Inhibition of carbonic anhydrases from the extremophilic bacteria *Sulfurihydrogenibium yellostonense* (SspCA) and *S. azorense* (SazCA) with a new series of sulphonamides" at "**The Inauguration Symposium of The Computational Bio-Science Research Centre CBRC"** organized by **King Abdullah University for Science and Technology "KAUST"** during the period 7-9 June 2014. This symposium

received 38 international scientists two out of them were chosen from inside the Kingdom of Saudi Arabia.

5. “The 2nd CA satellite meeting on Carbonic Anhydrases. Naples, Italy, from 23 to 25 October 2013”; Keynote Speaker “Carbonic Anhydrase Inhibitors and Activators”.
6. "Personalizing Cancer Care. Through Discovery Science" April 6-10, 2013. Washington, DC. Held and Organized by The American Association of Cancer Research Annual Meeting 2013.
7. International Conference on Phytochemicals in Health and Disease: Challenges and Future Opportunities (ICPHD) 2013 Jan. 23-25. Madras, India. Keynote Speaker and Chair Person.
8. The "9th International Conference on Carbonic Anhydrase (CA) which was held in Antalya, Turkey between 11-15/4, 2012 as a participant (Poster).
9. New Horizons in Cancer Research: Biology to Prevention to Therapy. December 13-16, 2011. The Leela Kempinski Gurgaon, Gurgaon, Delhi (NCR), India. Participant (Poster).
10. The 4th International Conference for Development and the Environment, Riyadh, Saudi Arabia. Mar. 18-20, 2008.
11. The 9th International Saudi Pharmaceutical Conference, Al-Faisaliah Hotel, Riyadh, Saudi Arabia. March 19-21, 2007.
12. The 7th International Pharmaceutical Sciences Conference and Exposition and the 9th General Assembly Meeting of the Scientific Society of Colleges of Pharmacy of the Association of Arab Universities in the Arab World, Riyadh, Saudi Arabia. Dec. 17-21, 2005.

Research Publications:

More than 60 Publications in peer reviewed journals in addition to several scientific meetings.

1. Aboshanab KM, Bishr AS, Jusoh SA, Alshahrani MY, Rahman KM, **Alafeefy AM**. Anticancer, antimicrobial and molecular docking analysis of newly synthesized iodoquinazoline derivatives. AMB Express. 2025 Jun 18;15(1):95. doi: 10.1186/s13568-025-01899-1.
2. Alasmary FAS, Abdullah DA, Masand VH, Ben Bacha A, Omar Ebeid AM, El-Araby ME, **Alafeefy AM**. J Enzyme Inhib Med Chem. 2024 Dec;39(1):2395985. doi: 10.1080/14756366.2024.2395985. Epub 2024 Sep 23.

3. Masand VH, Al-Hussain S, Alzahrani AY, Al-Mutairi AA, Sultan Alqahtani A, Samad A, **Alafeefy AM**, Jawarkar RD, Zaki MEA. Expert Opin Drug Discov. 2024 Aug;19(8):991-1009. doi: 10.1080/17460441.2024.2368743. Epub 2024 Jun 19.
4. El-Sayed NNE, Almaneai NM, Ben Bacha A, Al-Obeed O, Ahmad R, Abdulla M, **Alafeefy AM**. Synthesis and evaluation of anticancer, antiphospholipases, antiproteases, and antimetabolic syndrome activities of some 3H-quinazolin-4-one derivatives. J Enzyme Inhib Med Chem. 2019 Dec;34(1):672-683. doi: 10.1080/14756366.2019.1574780.
5. Awaad AS, **Alafeefy AM**, Alasmary FAS, El-Meligy RM, Alqasoumi SI. Anti-ulcerogenic and anti-ulcerative colitis (UC) activities of seven amines derivatives. Saudi Pharm J. 2017 Dec;25(8):1125-1129. doi: 10.1016/j.jsps.2017.07.003. Epub 2017 Jul 11.
6. Alasmary FAS, Awaad AS, **Alafeefy AM**, El-Meligy RM, Alqasoumi SI. Novel quinazoline and acetamide derivatives as safe anti-ulcerogenic agent and anti-ulcerative colitis activity. Saudi Pharm J. 2018 Jan;26(1):138-143. doi: 10.1016/j.jsps.2017.09.011. Epub 2017 Sep 28.
7. Ahmad R, Vaali-Mohammed MA, Elwatidy M, Al-Obeed O, Al-Khayal K, Eldehna WM, Abdel-Aziz HA, **Alafeefy AM**, Abdulla M. Induction of ROS-mediated cell death and activation of the JNK pathway by a sulfonamide derivative. Int J Mol Med. 2019 Oct;44(4):1552-1562. doi: 10.3892/ijmm.2019.4284. Epub 2019 Jul 23.PMID: 31364730.
8. Al-Obeed O, Vaali-Mohammed MA, Eldehna WM, Al-Khayal K, Mahmood A, Abdel-Aziz HA, Zubaidi A, Alafeefy AM, Abdulla M, Ahmad R. Novel quinazoline-based sulfonamide derivative (3D) induces apoptosis in colorectal cancer by inhibiting JAK2-STAT3 pathway. Onco Targets Ther. 2018 Jun 5;11:3313-3322. doi: 10.2147/OTT.S148108. eCollection 2018.
9. Alasmary FAS, Awaad AS, Alafeefy AM, El-Meligy RM, Alqasoumi SI. Novel quinazoline and acetamide derivatives as safe anti-ulcerogenic agent

and anti-ulcerative colitis activity. Saudi Pharm J. 2018 Jan;26(1):138-143. doi: 10.1016/j.jsps.2017.09.011. Epub 2017 Sep 28.

10. El-Sayed NNE, Almaneai NM, Ben Bacha A, Al-Obeed O, Ahmad R, Abdulla M, Alafeefy AM. Synthesis and evaluation of anticancer, antiphospholipases, antiproteases, and antimetabolic syndrome activities of some 3H-quinazolin-4-one derivatives. J Enzyme Inhib Med Chem. 2019 Dec;34(1):672-683. doi: 10.1080/14756366.2019.1574780.
11. Pustenko A, Nocentini A, Balašova A, Alafeefy AM, Krasavin M, Žalubovskis R, Supuran CT.J Enzyme Inhib Med Chem. 2020 Dec;35(1):245-254. doi: 10.1080/14756366.2019.1695795.
12. 11 Altamimi AS, Alafeefy AM, Balode A, Vozny I, Pustenko A, El Shikh ME, Alasmary FAS, Abdel-Gawad SA, Žalubovskis R. Symmetric molecules with 1,4-triazole moieties as potent inhibitors of tumour-associated lactate dehydrogenase-A. J Enzyme Inhib Med Chem. 2018 Dec;33(1):147-150. doi: 10.1080/14756366.2017.1404593.
13. Bozdag M, Alafeefy AM, Altamimi AM, Carta F, Supuran CT, Vullo D. Synthesis of new 3-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-benzene sulfonamides with strong inhibition properties against the tumor associated carbonic anhydrases IX and XII. Bioorg Med Chem. 2017;25(10):2782-2788.
14. Al-Khayal K, Alafeefy AM, Vaali-Mohammed MA, Mahmood A, Zubaidi A, Al-Obeed O, Khan Z, Abdulla M, Ahmad R. Novel derivative of aminobenzenesulfonamide (3c) induces apoptosis in colorectal cancer cells through ROS generation and inhibits cell migration. BMC Cancer. 2017 Jan 3;17(1):4.
15. Bozdag M, Alafeefy AM, Altamimi AM, Vullo D, Carta F, Supuran CT. Coumarins and other fused bicyclic heterocycles with selective tumor-associated carbonic anhydrase isoforms inhibitory activity. Bioorg Med Chem. 2017;25(2):677-683.
16. El-Sayed NN, Alafeefy AM, Bakht MA, Masand VH, Aldalbahi A, Chen N, Fan C, Ben Bacha A. Synthesis, Antiphospholipase A_2, Antiprotease, Antibacterial Evaluation and Molecular Docking Analysis of Certain Novel Hydrazones. Molecules. 2016;21(12). pii: E1664.

17. Bozdag M, Alafeefy AM, Carta F, Ceruso M, Al-Tamimi AM, Al-Kahtani AA, Alasmary FA, Supuran CT. Synthesis 4-[2-(2-mercapto-4-oxo-4H-quinazolin-3-yl)-ethyl]-benzenesulfonamides with subnanomolar carbonic anhydrase II and XII inhibitory properties. Bioorg Med Chem. 2016;24(18):4100-7. doi: 10.1016/j.bmc.2016.06.052.
18. Alafeefy AM, Carta F, Ceruso M, Al-Tamimi AM, Al-Kahtani AA, Supuran CT. Development of 3-(4-aminosulphonyl)-phenyl-2-mercapto-3H-quinazolin-4-ones as inhibitors of carbonic anhydrase isoforms involved in tumorigenesis and glaucoma. Bioorg Med Chem. 2016;24(6):1402-7. doi: 10.1016/j.bmc.2016.02.011.
19. Alafeefy AM, Ahmad R, Abdulla M, Eldehna WM, Al-Tamimi AM, Abdel-Aziz HA, Al-Obaid O, Carta F, Al-Kahtani AA, Supuran CT. Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. Eur J Med Chem. 2016;109:247-53. doi: 10.1016/j.ejmech.2016.01.001.
20. Bozdag M, Alafeefy AM, Vullo D, Carta F, Dedeoglu N, Al-Tamimi AM, Al-Jaber NA, Scozzafava A, Supuran CT. Benzenesulfonamides incorporating bulky aromatic/heterocyclic tails with potent carbonic anhydrase inhibitory activity. Bioorg Med Chem. 2015;23(24):7751-64. doi: 10.1016/j.bmc.2015.11.023.
21. Muthu M, Somagoni J, Cheriyan VT, Munie S, Levi E, Ashour AE, Yassin AE, Alafeefy AM, Sochacki P, Polin LA, Reddy KB, Larsen SD, Singh M, Rishi AK. Identification and Testing of Novel CARP-1 Functional Mimetic Compounds as Inhibitors of Non-Small Cell Lung and Triple Negative Breast Cancers. J Biomed Nanotechnol. 2015;11(9):1608-27.
22. Alasmary FA, Snelling AM, Zain ME, Alafeefy AM, Awaad AS, Karodia N. Synthesis and Evaluation of Selected Benzimidazole Derivatives as Potential Antimicrobial Agents. Molecules. 2015;20(8):15206-23. doi: 10.3390/molecules200815206.
23. Awaad AS, Al-Rifai AA, El-Meligy RM, Alafeefy AM, Zain ME. New Activities for Isolated Compounds from Convolvulus austro-aegyptiacus as Anti-ulcerogenic, Anti-Helicobacter pylori and Their Mimic Synthesis Using Bio-guided Fractionation. Phytother Res. 2015. doi: 10.1002/ptr.5379. [Epub ahead of print]

24. Masand VH, Mahajan DT, Alafeefy AM, Bukhari SN. Optimization of antiproliferative activity of substituted phenyl 4-(2-oxoimidazolidin-1-yl) benzenesulfonates: QSAR and CoMFA analyses. Eur J Pharm Sci. 2015 Jun 9. pii: S0928-0987(15)00296-1. doi: 10.1016/j.ejps.2015.06.001.
25. Pramod Kumar Sahu, Praveen Kumar, Sahu, D. Thavaselvam, Ahmed M. Alafeefy, Dau D. Agarwal. Synthesis and evaluation of antimicrobial activity of 2-aminobenzothiazolomethyl naphthol derivatives. Med. Chem. Res. 24(2): 725-736 (2015).
26. Ahmed M. Alafeefy, Mohammed A. Bakht, Majid A. Ganie, Nazam Ansari, Nahed N. El-Sayed, Amani S. Awaad. Synthesis, analgesic, anti-inflammatory and anti-ulcerogenic activities of certain novel Schiff's bases as fenamate isosteres. Bioorg Med Chem Lett. 2015 Jan 15;25(2):179-83.
27. Ahmed M. Alafeefy, Ashour AE, Prasad O, Sinha L, Pathak S, Alasmari FA, Rishi AK, Abdel-Aziz HA. Development of certain novel N-(2-(2-(2-oxoindolin-3-ylidene)hydrazinecarbonyl)phenyl)-benzamides and 3-(2-oxoindolin-3-ylideneamino)-2-substituted quinazolin-4(3H)-ones as CFM-1 analogs: Design, synthesis, QSAR analysis and anticancer activity. Eur J Med Chem. 2014 Dec 27;92C:191-201.
28. Ahmed M. Alafeefy, Mariangela Ceruso, Abdul-Malek S. Al-Tamimi, Sonia Del Prete, Clemente Capasso, Claudiu T. Supuran. Quinazoline-sulfonamides with potent inhibitory activity against the α-carbonic anhydrase from Vibrio cholera. Bioorg Med Chem. 2014;22(19):5133-40.
29. Ahmed M. Alafeefy, Abdel-Aziz HA, Carta F, Supuran CT, Pathak SK, Prasad O, Sinha L. Exploring QSARs of some benzenesulfonamides incorporating cyanoacrylamide moieties as a carbonic anhydrase inhibitors (specifically against tumor-associated isoforms IX and XII). J Enzyme Inhib Med Chem. 2014:1-5.
30. Ahmed M. Alafeefy, Awaad AS, Abdel-Aziz HA, El-Meligy RM, Zain ME, Al-Outhman MR, Bacha AB. Synthesis and biological evaluation of certain

3-substituted benzylideneamino-2-(4-nitrophenyl)quinazolin-4(3H)-one derivatives. J Enzyme Inhib Med Chem. 2014:1-7.

31. El-Meligy RM, Awaad AS, Soliman GA, Bacha AB, Alafeefy AM, Kenawy SA. Prophylactic and curative anti-ulcerative colitis activity and the possible mechanisms of action of some desert plants. J Enzyme Inhib Med Chem. 2014 May 9. [Epub ahead of print].
32. Alafeefy AM. Design, synthesis, and antitumor screening of certain novel tetrahydroquinoline sulfonamides. J Enzyme Inhib Med Chem. 2014 Mar 25. [Epub ahead of print].
33. Alafeefy AM, Abdel-Aziz HA, Vullo D, Al-Tamimi AM, Awaad AS, Mohamed MA, Capasso C, Supuran CT. J Enzyme Inhib Med Chem. 2014 Mar 25. [Epub ahead of print].
34. Awaad AS, Al-Zaylaee HM, Alqasoumi SI, Zain ME, Aloyan EM, Alafeefy AM, Awad ES, El-Meligy RM. Anti-leishmanial Activities of Extracts and Isolated Compounds from Drechslera rostrata and Eurotium tonpholium. Phytother Res. 2013 Dec 4. doi: 10.1002/ptr.5096. [Epub ahead of print].
35. Alafeefy AM, Abdel-Aziz HA, Vullo D, Al-Tamimi AM, Al-Jaber NA, Capasso C, Supuran CT. Inhibition of carbonic anhydrases from the extremophilic bacteria Sulfurihydrogenibium yellostonense (SspCA) and S. azorense (SazCA) with a new series of sulfonamides incorporating aroylhydrazone-, [1,2,4]triazolo[3,4-b][1,3,4]thiadiazinyl- or 2-(cyanophenylmethylene)-1,3,4-thiadiazol-3(2H)-yl moieties. Bioorg Med Chem. 2014 Jan 1;22(1):141-7. doi: 10.1016/j.bmc.2013.11.042. Epub 2013 Dec 1.
36. Ashour AE, Jamal S, Cheryan VT, Muthu M, Zoheir KM, Alafeefy AM, Abd-Allah AR, Levi E, Tarca AL, Polin LA, Rishi AK. CARP-1 functional mimetics: a novel class of small molecule inhibitors of medulloblastoma cell growth. PLoS One. 2013;8(6):e66733. doi: 10.1371/journal.pone. 0066733.
37. Al-Tamimi AM, Alafeefy AM, El-Emam AA, Ng SW, Tiekink ER. 5-(Adamantan-1-yl)-3-[(4-fluoro-anilino)meth-yl]-2,3-di-hydro-1,3,4-oxa-diazole-2-thione. Acta Crystallogr Sect E Struct Rep Online. 2013 Apr 13;69(Pt 5):o730.

38. Al-Tamimi AM, Alafeefy AM, El-Emam AA, Ng SW, Tiekink ER. 5-(Adamantan-1-yl)-N-methyl-1,3,4-thia-diazol-2-amine. Acta Crystallogr Sect E Struct Rep Online. 2013 Apr 10;69(Pt 5):o683.
39. Alafeefy AM, Saleh I. Alqasoumi, Sami G. Abdel hamid, Menshawy Mohamed, Kamal E.H. El-Tahir, Mohamed E. Zain and Amani. S. Awaad. Synthesis and hypoglycemic activity of some new theophylline derivatives. J Enzyme Inhib Med Chem. 2014;29(3):443-8. doi: 10.3109/14756366.
40. Alafeefy AM., Isik, S., Al-Jaber, N.A., Vullo, D., Abdel-Aziz, H.A., Ashour, A.E., Awaad, A.S., Capasso, C., Supuran, C.T., Carbonic anhydrase inhibitors. Benzenesulfonamides incorporating cyanoacrylamide moieties strongly inhibit Saccharomyces cerevisiae β-carbonic anhydrase, Bioorganic & Medicinal Chemistry Letters 2013; 23(12):3570-5. doi: http://dx.doi.org/10.1016/j.bmcl.2013.04.028.
41. Awaad AS, El-Meligy RM, Al-Jaber NA, Al-Muteeri HS, Zain ME, Alqasoumi SI, Alafeefy AM, Donia AE. Anti-Ulcerative Colitis Activity of Compounds from Euphorbia granuleta Forssk. Phytother Res. 2013 Apr 11. doi: 10.1002/ptr.4985. [Epub ahead of print].
42. Alafeefy AM, Isik S, Abdel-Aziz HA, Ashour AE, Vullo D, Al-Jaber NA, Supuran CT. BMC. Bioorganic & Medicinal Chemistry, 21(6), 2013, 1396-1403.
43. Fun HK, Chia TS, Alafeefy AM, Abdel-Aziz HA. (N',N''Z,N',N''E)-N',N''-[1-(4-Chloro-phen-yl)ethane-1,2-diyl-idene]bis-(3-methyl-1-benzofuran-2-carbohydrazide). Acta Crystallogr Sect E Struct Rep. 2012; 68(Pt 8):o2405-6. Epub 2012 Jul 10.
44. Fun HK, Chia TS, Alafeefy AM, Abdel-Aziz HA. 3-(3-Meth-oxy-phen-yl)benzo[d]thia-zolo[3,2-a]imidazol-9-ium hydrogen sulfate. Acta Crystallogr Sect E Struct Rep Online. 2012; 68(Pt 8):o2407-8. Epub 2012 Jul 10.
45. Fun HK, Chia TS, Alafeefy AM, Abdel-Aziz HA. 2-{2-[(E)-(2-Benzoyl-hydrazin-1-yl-idene)meth-yl]phen-oxy}acetic acid.Acta Crystallogr Sect E Struct Rep Online. 2012; 68(Pt 7):o2260-1. Epub 2012 Jun 30.

46. Brahim Bennani, Abdelali Kerbal, Bouchra F. Baba, Maria Daoudi, Ismail Warad, Mohamad Aljofan, Ahmed M. Alafeefy, Vijay Masand, Taibi B. Hadda. Med Chem Res. In Press (DOI 10.1007/s00044-012-0392-4).
47. Mohammed Afroz Bakht, M. Shahar Yar, Anees A. Siddiqui, M. M. Abdullah, Hamadeh Tarazi, Moawiah M. Naffaa, Ahmed M. Alafeefy. Med Chem Res (2013) 22:916–926.
48. Alafeefy AM, Alqasoumi SI, Ashour AE, Masand V, Al-Jaber NA, Ben Hadda T, Mohamed MA. Quinazoline–tyrphostin as a new class of antitumor agents, molecular properties prediction, synthesis and biological testing. Eur J Med Chem. 2012 Jul; 53:133-40. Epub 2012 Apr 5.
49. Vijay H. Masand, Devidas T. Mahajan, Komalsing N. Patil, Krushna D. Chinchkhede, Rahul D. Jawarkar, Taibi Ben Hadda, Ahmed M. Alafeefy, I. G. Shibi. k-NN, Quantum Mechanical And Field Similarity Based Analysis Of Xanthone Derivatives As A-Glucosidase Inhibitors. Medicinal Chemistry Research. Germany. 11/2/2012. DOI 10.1007/s00044-012-9995-z.
50. Alafeefy AM, Alqasoumi SI, Ashour AE, Alshebly MM. Quinazoline-Sulfonamides As Potential Antitumor Agents: Synthesis And Biological Testing. Journal of Enzyme Inhibition and Medicinal Chemistry. United Kingdom. 17/2/2012. (ID:668541DOI:10.3109/14756366.2012.668541).
51. Alafeefy AM,, Ashour AE. Design, Synthesis and Biological Evaluation Of Novel Quinazoline Derivatives as Potential Anticancer Agents. J Enzyme Inhib Med Chem. 2012 Aug;27(4):541-5. United Kingdom. 25/6/2011. (ID: 601302 DOI:10.3109/14756366.2011.601302).
52. Alafeefy AM, Adel S. El-Azab, Menshawy A. Mohamed, Mohamed Afroz Bakhat, S.G. Abdel-Hamid. Synthesis Of Some New Substituted Iodoquinazoline Derivatives And Their Antimicrobial Screening. Journal of Saudi Chemical Society. Saudi Arabia. 2011, 15(4): 319-325.
53. Ahmed M. Alafeefy. Some New Quinazolin-4(3H)-One Derivatives, Synthesis and Antitumor Activity. Journal of Saudi Chemical Society. Saudi Arabia. 2011, 15 (4): 337-343.

54. Ahmed M. Alafeefy, Vijay H. Masand, Devidas T. Hahajan, Komalsing N. Patil, Taibi Ben Hadda, RD Jawarkar. Identification of Pharmacophore and Anti-pharmacophore using GUSAR, QSAR and Molecular Docking. Inventi Rapid: Molecular Modeling. India. 2011, 4:1-7.
55. Vijay H. Masand, Devidas T. Mahajan, Komalsing N. Patil, Nelish E. Dawale, Taibi Ben Hadda, Ahmed M. Alafeefy Krushna D. Chinchkhede. General Unrestricted Structure Activity Relationships based evaluation of quinoxaline derivatives as potential influenza NS1A protein inhibitors. Der Pharma Chemica. India. 2011, 3 (4): 517-525.
56. Vijay H. Masand, Devidas T. Mahajan, Komalsingh N. Patil, Nilesh Padole, Taibi Ben Hadda, Ahmed M. Alafeefy, I.G. Shibi. Molecular Docking And 3D QSAR Studies Of Quinoxaline Derivatives As Potential Influenza NS1A Protein Inhibitors. J. Comput. Method. Mol. Design. India. 2011, 1 (3): 49-56.
57. Alafeefy AM., A. A. Kadi, Omar A. Al-Deeb, Kamal E.H. El-Tahir, Nabila A. Al-Jaber. Synthesis, Analgesic And Anti-Inflammatory Evaluation of Some Novel Quinazoline Derivatives. European Journal of Medicinal Chemistry. France. 2010, 45(11): 4947-4952.
58. M. M. Ghorab1, F. A. Ragab, S. I. Alqasoumi, Alafeefy AM., S. A. Aboulmagd. Synthesis of Some New Pyrazolo[3,4-D]Pyrimidine Derivatives of Expected Anticancer Activity. European Journal of Medicinal Chemistry. France. 2010, 45 (1): 171–178.
59. S. I. Alqasoumi, A. M. Al-Taweel, Alafeefy AM., E. Noaman and M. M. Ghorab. Novel Quinolines and Bearing Sulfonamide Moiety as a New Class of Antitumor Agents. European Journal of Medicinal Chemistry. France. 2010, 45 (2): 738–44.
60. S. I. Alqasoumi, A. M. Al-Taweel, Alafeefy AM., M. M. Ghorab and E. Noaman, Discovering Novel Quinoline Derivatives Bearing Sulfonamide Moiety As A New Class Of Antitumor Agents. European Journal of Medicinal Chemistry. France. 2010, 45 (5): 1849–1853.

61. S. I. Alqasoumi, A. M. Al-Taweel, Alafeefy AM., M. M. Hamed, E. Noaman, M. M. Ghorab. Synthesis And Biological Evaluation Of 2-Amino-7,7-Dimethyl-4-Substituted-5-Oxo-1-(3,4,5-Trimethoxy)-1,4,5,6,7,8-Hexa-Hydro-Quinoline-3-Carbonitrile Derivatives As Potential Cytotoxic Agents. Bioorganic Medicinal Chemistry Letters. USA. 2009(19): 6939-6942.
62. S. I. Alqasoumi, F. A. Ragab, Alafeefy AM., M. Galal, M. M. Ghorab. Radioprotective And Antitumor Activity Of Some Novel Amino Acids And Imidazoles Containing Thieno[2,3-d]Pyrimidine Moiety. Phosphorus, Sulfur, and Silicon and the Related Elements. United Kingdom. 2009, 184: 3241–3257.
63. Alafeefy AM.; Synthesis, Analgesic and Anti-Inflammatory Activity of Some New Fenamate Analogues. Arzneium-Forsch.-/Drug Res. Germany. 2008; 58(9): 457-63.
64. Alafeefy AM., Kadi AA, El-Azab AS, Abdel-Hamide SG, Daba MH. Synthesis, Analgesic and Anti-Inflammatory Evaluation of Some New 3H-Quinazolin-4-One Derivatives. Arch Pharm Chem Life Sci. Germany. 2008; 341(6): 377-85.
65. Alafeefy AM.; Synthesis and Antimicrobial Activity of Some New Quinazoline Derivatives. Pharmaceutical Biology. United Kingdom. 2008, 46(9):423-434.
66. A. Al-Obaid; H. H. Farag; H. I. El-Subbagh; S. G. Abdel-Hamide; Alafeefy AM.; H. El-Kashef; H. S. Ahmed and E. Gad-Karim; Synthesis and Investigation of Novel Shelf-Stable, Brain-Specific Chemical Delivery System, Saudi, Pharm. J., 14(1): 1-15 (2006).
67. A. A. Kadi; A. S. El-Azab; Alafeefy AM.; S. G. Abdel-Hamide; Synthesis and anti-inflammatory evaluation of some new quinazolin-4-one derivatives, Az. J. Pharm. Sci. 34; 140-146 (2006).
68. A. S. El-Azab; A. A. Kadi; Alafeefy AM.; S. G. Abdel-Hamide; Synthesis and anti-inflammatory evaluation of some new quinazolin-4-one derivatives, Az. J. Pharm. Sci. 34; 147-159 (2006).

69. MS Mohamed; MK Ibrahim; AM Alafeefy. S. G. Abdel-Hamide; Synthesis of certain new 6-iodoquinazolines as potential antitubercular agents, Int. J. Pharmacol. 1(3):261-265 (2005).
70. MS Mohamed; MK Ibrahim; AM Alafeefy; S. G. Abdel-Hamide; New quinazoline related derivatives with antimicrobial activity: Part I, Pak. J. Biol. Sci., 7(7):1262-1268 (2004).
71. MS Mohamed; MK Ibrahim; AM Alafeefy; S. G. Abdel-Hamide; New quinazoline related derivatives with antimicrobial activity: Part: II, J. Biol. Sci., 4(4):504-509 (2004).
72. MS Mohamed; MK Ibrahim, AM Alafeefy, S.G. Abdel-Hamid. Synthesis of Certain New 6-Iodoquinazolines as Potential Antitubercular Agents. Synthesis of Certain New 6-Iodoquinazolines as Potential Antitubercular Agents. Journal of Applied Sciences. 2004, 4(2): 302-307.
73. Abadi, A. H.; Al-Deeb, O. A.; Alafeefy AM. El-Kashef, H.; Synthesis of 4-alkyl (aryl)-6-aryl-3-cyano-2(1H)-pyridinones and their 2-imino isosteres as non-steroidal cardiotonic agents, IL Farmaco, 54, 195-201 (1999).
74. Omar A. Al-Deeb; Nagwa H. Foda; Faiza El-Shafie; Alafeefy AM. High performance liquid chromatographic assay of chlorpheniramine maleate in tablet formulations, J. Liq. Chrom. & Rel. Technol., 20(14), 2221-2231 (1997).