

## Curriculum Vitae

**Prof. Adnan A. Bekhit, Ph.D.**

Ex. Vice Dean for Education and students' Affairs

Ex. Executive Director for Clinical Pharmacy  
program

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**Date and Place of Birth:** December 23, 1960, Alexandria, Egypt.

**Languages:** Arabic, English, German, Japanese.

### Education:

- 1993, Ph.D. in Pharmaceutical Chemistry, thesis titled “Synthesis of some quinazoline derivatives of potential therapeutic activity (anti-inflammatory)”. Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Egypt. Major advisor: Prof. A. M. Farghaly, Ph.D.
- 1989, M. Pharm. in Pharmaceutical Chemistry, thesis titled “ Synthesis of some quinazoline derivatives of potential therapeutic activity (anti-inflammatory, antimicrobial, anticonvulsant) ” Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Egypt. Major advisor: Prof. A. M. Farghaly, Ph.D.
- 1984, B. Pharm. Sci. with general grade distinction honor, Faculty of Pharmacy, University of Alexandria, Egypt.

### Postdoctoral Experience:

- May 1993-present, Faculty member, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Egypt.
- Dec.1996 - Mar. 1999, Post-doctoral Research Fellow, Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Yamashina-ku, Kyoto 607-8414, Japan (Prof. Y. Kiso).
- Jun. - Sept. 1995, Visiting Scientist, SAIC-NCI-FCRDC, Frederick, MD 21702, USA (Dr. John Erickson).

**Faculty Appointments:**

- April 1<sup>st</sup>, 2014 – present, Honorary Visiting Professor of Kyoto Pharmaceutical University, Japan.
- Feb. 2013- present, Member, National Faculty Promotion Committee (Pharm. Chem., Biochem, Pharm. Analytical Chem.).
- August 2014- Oct. 2014, Acting Dean, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.
- Oct. 2011- Dec. 2014, Executive Manager of Clinical Pharmacy Program
- Oct. 2011- Oct. 2014, Vice Dean for Education and students' Affairs, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.
- Sept. 2007- July 2011, Expert Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, School of Pharmacy, Addis Ababa University, Addis Ababa, through the Egyptian Fund of Technical Cooperation with Africa, Ministry of foreign affairs, Egypt.
- 2006 -present, Professor, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, and Alexandria 21521, Egypt.
- 2000 - 2006, Associate Professor, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.
- 1993 - 2000, Lecturer, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.
- 1990 - 1993, Assistant Lecturer, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.
- 1984 - 1989, Teaching Assistant, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Alexandria, Alexandria 21521, Egypt.

**Areas of expertise:**

My major area of expertise is the synthesis and evaluation of new compounds as well as analysis of pharmaceutical, environmental and food compounds. Over the last 30 years, I have been involved in vigorous drug developments programs aimed at the synthesis of Anti-inflammatory-antimicrobial, anticancer, antimalarial, antileishmanial compounds, HIV protease and MAO inhibitors and other bioactive agents. In these research themes, I demonstrated great deal of research management and adaptation to available facilities, which varied from state of the art capabilities (Kyoto Pharmaceutical University, Japan and NCI-FCRDC, Maryland) to basic lab facilities (Addis Ababa University) without compromising the quality of the research output. Through my research I maintained collaborative

research network with colleagues in several institutes in Egypt, and colleagues from Japan, Saudi Arabia, USA, Ethiopia, South Korea and New Zealand.

### **Teaching and research activities:**

- **Alexandria University,** Design, synthesis and *in vitro/in vivo* evaluation of new pharmacologically active compounds, e.g. anti-inflammatory, antimicrobial, cardiogenic, anticancer antimalarial, antileishmanial and MAO inhibitors. Apply and teach multi-step synthesis together with modern synthetic methods and analytical techniques (NMR, HPLC, MS and so on). Pioneered the design and synthesis of dual acting anti-inflammatory anti-microbial agents. Laboratory and research projects management. Development and establishing of biological screening protocols. Teaching of Pharmaceutical Organic Chemistry, Pharmaceutical Chemistry, and Medicinal Chemistry courses at undergraduate and postgraduate levels as well as continued education courses for medical professions. Preparation of undergraduate courses' notes. Supervision of Master and Ph.D. students.
- **Addis Ababa University,** Design, synthesis and screening of novel anti-malarial or antileishmanial agents. Teaching of advanced courses for Master Student: advanced Medicinal Chemistry courses, advanced Organic Chemistry courses, Spectroscopy courses, Practical course of multi-step drugs synthesis, involving physical and spectral identification and seminar courses. Supervision of Master students' theses in Medicinal Chemistry, and Analysis and Quality Assurance of Pharmaceutical, Food, Environmental compounds. Supervision of undergraduate students' projects. Established a research group focused on the synthesis of anti-malarial or anti-leishmanial agents. Mentoring emerging researchers working for Food, Medicine, Health Care Administration & Control Authority of Ethiopia (FMHCACAE) or similar bodies to be able to work and run modern techniques to control the drug quality available in Ethiopia.
- **Hunan Agriculture University, China,** Sept. 7<sup>th</sup>-27<sup>th</sup>, 2010 & 7<sup>th</sup>-26<sup>th</sup>, 2009, Botanical extracts processing and tea fine processing technology.
- **Beirut Arab University,** Visiting faculty member, Faculty of Pharmacy, Sept. – Dec. 1999, March – May, 2005 and March – Jun 2006. Teaching undergraduate and postgraduate courses. Supervision of master students' theses in Medicinal Chemistry and Pharmacology.
- **Kyoto Pharmaceutical University,** Dec.1996 - Mar.1999, Design and synthesis of peptidomimetic HIV protease inhibitors applying modern synthesis methods and analytical techniques. A number of highly potent HIV protease inhibitors was developed by the modification of the lead compounds KNI

272 and KNI 764 (now is AG 1775) which are in clinical trials now. Supervision of undergraduate and graduate students.

- **NCI-FCRDC**, Structure based drug design as C2 symmetry-based, conformationally-constrained HIV protease inhibitors using modern synthesis methods and analytical techniques Such as CADD and SYBYL molecular modeling package.

#### **Peer esteem:**

1. Editorial board member of Clinical Anti-Inflammatory & Anti-Allergy Drugs till 2015.
2. Review Editor in Experimental Pharmacology and Drug Discovery, part of the journal(s) Frontiers in Pharmacology.
3. Reviewer for *Bioorg. Med. Chem.*
4. Reviewer for *Eur. J. Med. Chem.*
5. Reviewer for *Ethiopian Pharmaceutical Journal*.
6. Reviewer for *Aust. J. Chem.*
7. Reviewer for *Arch. Pharm. Chem. Life Sci.*
8. Reviewer for *Journal of Sulfur Chemistry*.
9. Reviewer for *Journal Biolog. Slovak*.
10. Reviewer for *Molecules*.
11. Reviewer for *Letters in Drug Design & Discovery*.
12. Reviewer for *Mini-Reviews in Medicinal Chemistry*.

#### **Awards:**

1. Alexandria University Award for Scientific Excellence, 2015.
2. Alexandria University Award for Administrative Excellence, 2015
3. Alexandria University publication awards, 2005-2015.
4. Outstanding contribution in Reviewing Award for *Eur. J. Med. Chem.*, 2015.
5. Outstanding contribution in Reviewing Award for *Eur. J. Med. Chem.*, 2014.
6. 2010, Top Cited Author for Bioorganic & Medicinal Chemistry.
7. 2010, Youssef Jameel Prize for Scientific Excellence.
8. 2004, Alexandria University Prize for Scientific Promotion.
9. 2001, Silver Medal for Merit, General Egyptian Syndicate of Pharmacists.
10. 2000, Medal of Scientific Advances, Alexandrian Syndicate of Pharmacists.

11. 1999, Full Resident Scholarship to the 1999 Residential School on Medicinal Chemistry, Drew University, Madison, NJ 07940-4037.
12. 1993, Medal for Merit of the General Egyptian Syndicate of Pharmacists.
13. 1992, Arab Scientific Innovation Prize in Chemistry (Kuwait).
14. 1984, Faculty of Pharmacy Recognition Award for Social and Scientific Activities.

#### **Professional Societies:**

1. Japanese Peptide Society.
2. American Chemical Society, Division of Medicinal Chemistry.
3. Egyptian Pharmaceutical Society.
4. General Egyptian Syndicate of Pharmacists.
5. Scientific Society of the Faculty of Pharmacy, Alexandria University.
6. Scientific Society of Students Hospital, Alexandria University.

#### **Funded Projects:**

1. Functional food analysis laboratory in Alexandria University, STDF, 4876, Nov. 2012.
2. Synthesis and application of novel dendrimers in medicinal chemistry, AlexRep, Jun. 2014.
3. Synthesis and biological evaluation of some heterocyclic derivatives as antiprotozoal agents, AlexRep, Jun. 2014.
4. Synthesis and evaluation of drug-polymer conjugate nanomicelles as emerging platform for targeted brain tumor therapy", project ID no. 15053, STDF, Feb. 2015 (Accepted).

#### **Supervised Theses:**

Master Theses = 27

Ph.D. Theses = 2

#### **Selected Publications, h. index = 20**

1. Evaluation of Anti-Inflammatory, Analgesic Activities and side effects of Newly Synthesized Pyrazole Derivatives, Domiati, Souraya; El Mallah, Ahmed; Ghoneim, Asser; **Bekhit, Adnan**; Abd El Razik, Heba, BJP (In press)
2. Physicochemical Properties and Bioactivity of Extracts from the Roe of New Zealand Hoki and Southern Blue Whiting, **Adnan A. Bekhit** and Alaa El-Din A. Bekhit , *J. Aqua Food Prod. Tech.* (In press).

3. Compounds Containing Azole Scaffolds as Cyclooxygenase Inhibitors: a Review, Hanan MA Ragab, **Adnan A Bekhit**, Sherif AF Rostom, and Alaa El-Din A Bekhit, *Current Topics in Medicinal Chemistry* (In press).
4. Preparation and characterisation of irradiated crab chitosan and New Zealand Arrow squid pen chitosan, Amin Shavandi, **Adnan A. Bekhit**, Alaa El-Din A. Bekhit, Zhifa Sun, M. Azam Ali, *Mater. Chem. Phys.* 167, 295-302 (2015).
5. In vivo antimalarial evaluation of some 2,3-disubstituted-4(3H)-Quinazolinone derivatives, Yihenew S. Birhan, **Adnan A. Bekhit**, Ariaya Hymete, *BMC research notes* 8, 589 (2015).
6. 1,3,5-Triazine amino acid derivatives as promising MAO inhibitors, Sherine N. Khattab, Hosam H. Khalil, **Adnan A. Bekhit**, Mohamed Mokbel Abd El-Rahman, Ayman El-Faham and Fernando Albericio, *Molecules*. 20, 15976-15988 (2015) doi:10.3390/molecules200915976.
7. Synthesis and evaluation of Quinazoline amino acid derivatives as Mono Amine Oxidase (MAO) inhibitors, Sherine Nabil Khattab, Nesreen Saied Haiba, Ahmed Mosaad Asal, **Adnan A. Bekhit**, Adel Amer, Hamdy M. Abdel-Rahman, Ayman El-Faham, *Bioorg. Med. Chem.* 23(13):3574-3585 (2015).
8. Synthesis and Anti-leishmanial Activity Evaluation of Some 2,3-Disubstituted Quinazoline-4(3H)-Ones Bearing Quinoline and Pyrazole Moieties, Roza G Tesfahunegn, **Adnan A Bekhit** and Ariaya Hymete, *EC Pharmaceutical Science*. 1(3) 156-167 (2015).
9. Quantification of total polyphenols, catechin, caffeine, L-theanine, determination of antioxidant activity and effect on antileishmanial drugs of ethiopian tea leaves extracts, Tadesse A, Hymete A, **Bekhit AA**, Mohammed SF., *Pharmacognosy Res.* 7(Suppl 1):S7-S14 (2015). doi: 10.4103/0974-8490.157991.
10. Antibacterial products of marine organisms: A review, Tzi Bun Ng, Randy Chi Fai Cheung, Jack Ho Wong, **Adnan A. Bekhit**, Alaa Bekhit, *Appl. Microb. Biotechnol.* 99, 4145-4173 (2015).
11. Design, synthesis and in-vivo biological activity testing of 2,3-disubstitutes 4(3H)-Quinazolinone derivatives as anti-malarial agents, Gebisa Tuji Kefeni, Mohammed Hussen Bule , Ariaya Hymete, **Adnan A. Bekhit**, *ejbps*, 2(2) 371-382 (2015).
12. Stability indicating HPTLC method development for determination of Betamethasone and Dexchlorpheniramine Maleate in a tablet dosage form, Tadesse Haile Fereja, Ariaya Hymete, **Adnan A. Bekhit**, *AASCIT. J. Chem.* 2(2), 32-42 (2015).
13. New heterocyclic hybrids of pyrazole and its bioisosteres: Design, synthesis and biological evaluation as dual acting antimalarial-antileishmanial agents, **Adnan A. Bekhit**, Ahmed M. M. Hassan, Heba A.

- Abd El Razik, Mostafa M. M. El-Miligy, Eman J. El-Agroudy, Alaa El-Din A. Bekhit, *Eur. J. Med. Chem.* 94, 30-44(2015).
14. Synthesis, biological investigation and molecular docking study of N-malonyl-1,2-dihydroisoquinoline derivatives as brain specific and self-stable MAO inhibitors, Mohammed K. Abd El-Gaber, Hoda Y. Hassan, Nadia M. Mahfouz, Hassan H. Farag, **Adnan A. Bekhit**, *Eur. J. Med. Chem.* 93, 481-491(2015).
  15. Exploring new selective 3-Benzylquinoxaline-based MAO-A inhibitors: Design, Synthesis, biological evaluation and docking studies, Sherine N. Khattab, Shima A. H. Abdel Moneim, **Adnan A. Bekhit**, Abdel Moneim El Massry, Seham Y. Hassan, Ayman El-Faham, Hany Emary Ali Ahmed, Adel Amer, *Eur. J. Med. Chem.* 93, 308-320 (2015).
  16. Microwave-assisted synthesis of certain Pyrrolylpyridines, some derived ring system and their evaluation as anticancer and antioxidant agents, Sherif A. F. Rostom, **Adnan A. Bekhit**, *Eur. J. Med. Chem.* 92, 712-722 (2015).
  17.  $\alpha$ -Ketoamino acid derivatives as promising MAO inhibitors, Ayman El-Faham, Zainab Al Marhoon, Ahmed Abdel-Mageed, Sherine N. Khatab, **Adnan A. Bekhit**, Fernando Albericio, *Bioorg. Med. Chem. Lett.* 25, 70-74 (2015).
  18. Production and physico-chemical assessment of new stevia-amino acid sweeteners from the natural stevioside, Mona I. Massoud, Sherine N. Khattab, Yahya El-Sayed Jad, **Adnan A. Bekhit**, Ayman El-Faham, *Food Chemistry*, 173, 979-985 (2015).
  19. Synthesis and biological screening of some thienyl and phenyl pyrazoline derivatives as antimalarial agent, Abdu Tuha, **Adnan A. Bekhit**, Yimer Seid, *Thai J. Pharm. Sci.*, **38**(3), 121-129 (2014).
  20. Evaluation of Some 1H-pyrazole Derivatives as a Dual Acting Antimalarial and Antileishmanial Agents, **Adnan A. Bekhit**, Tizita Haimanot and Ariaya Hymete, *Pak. J. Pharm. Sci.*, **27**, 1767-1773 (2014).
  21. Synthesis and antileishmanial evaluation of some 2,3-Disubstituted-4(3H)-Quinazolinone Derivatives, Yihenew S. Birhan, **Adnan A. Bekhit**, Ariaya Hymete, *Org. Med. Chem. Lett.* 2014, **4**:10, doi:10.1186/s13588-014-0010-1.
  22. Antifungal and antiviral products of marine organisms: A review, Randy Chi Fai Cheung, Jack Ho Wong, Wen Liang Pan, Yau Sang Chan, Cui Ming Yin, Xiu Li Dan, He Xiang Wang, Evandro Fei Fang, Sze Kwan Lam, Patrick Hung Kui Ngai, Li Xin Xia, Fang Liu, Xiu Yun Ye, Guo Qing Zhang, Qing Hong Liu, Ou Sha, Peng Lin, Chan Ki, **Adnan A. Bekhit**, Alaa Bekhit, Xiu Juan Ye, Tzi Bun Ng, *Appl. Microb. Biotechnol.* **98**, 3475-3494 (2014).

23. Persistent organochlorine pesticides levels in cow and goat milk samples collected from different regions of Ethiopia, Habtewold Deti, Ariaya Hymete, **Adnan A. Bekhit**, Abdel Maaboud I. Mohamed and Alaa El-Din A. Bekhit, *Chemosphere* **106**, 70-74 (2014).
24. Exogenous proteases for meat tenderization, Bekhit, A. E. D., Hopkins, D. L., Geesink, G., **Bekhit, A. A.**, and Franks, P., *Critical Reviews in Food Science and Nutrition*. **54**, 1012-1031 (2014).
25. Development and validation of HPTLC densitometric method for simultaneous determination of antazoline hydrochloride and tetrazoline hydrochloride in eye drops and its application as stability indicator, Anbessa Bekele, Ariaya Hymete, **Adnan A. Bekhit**, *Thai J. Pharm. Sci.* **37**, 134-145 (2013).
26. Evaluation of the hepatoprotective, nephroprotective and anti-malarial activities of different parts of *Bauhinia purpurae* and *Tipuana speciosa* grown in Egypt, Fahima F. Kassem, Saleh I. Alqasoumi, Shaimaa M. Sallam, **Adnan A. Bekhit**, Nagwa S. E. El-Shaer, Abdallah I. Farraj, Nabil A. Abdel-Salam and Maged S. Abdel-Kader, *Journal of Medicinal Plants Research*, **7(17)**, 1190-1200, (2013), DOI: 10.5897/JMPR12.1196
27. Development and validation of HPTLC assay method for simultaneous quantification of hydrocortisone and clotrimazole in cream and applying for stability indicating test. Getachew Genete, Ariaya Hymete and **Adnan A. Bekhit**, *J. Chil. Chem. Soc.* **57**, 1199-1203 (2012).
28. Application of a stability-indicating HPTLC method for simultaneous determination of chloramphenicol and dexamethasone sodium phosphate in eye drop, Yimer Seid, Araya Hymete and **Adnan A. Bekhit**, *Thai J. Pharm. Sci.* **36**, 94-107 (2012).
29. Synthesis and biological evaluation of some pyrazole derivatives as anti-malarial agents, **Adnan A. Bekhit**, Ariaya Hymete, Henok Asfaw and Alaa El-Din A. Bekhit. *Arch. Pharm. Chem. Life Sci.* **345**, 147-154 (2012).
30. Synthesis and biological screening of some pyridine derivatives as anti-malarial agents, **Adnan A. Bekhit**, Ariaya Hymete, Ashenafi Damtew, Abdel Maaboud I. Mohamed, Alaa El-Din A. Bekhit, *J. Enzyme Inhib. Med. Chem.*, **27**, 69-77 (2012).
31. Validation of an HPLC method for the simultaneous determination of diminazene diacetate and phenazone in injectable veterinary granules and bulk powders. Lantider Kassaye, Ariaya Hymete, **Adnan A. Bekhit** and Getachew Genete. *Pak. J. Pharm. Sci.*, **25**, 255-259(2012).
32. Synthesis of some tetrahydrobenzo[b]thieno[2,3-d]-pyrimidinone derivatives of potential pharmacologic activities. Ahmed M. Farghaly, Omaima Aboulwafa, Mona A. El-Semary, **Adnan A. Bekhit**, Mai S. El-Shoukrofy, *Alex. J. Pharm. Sci.* **25**, 51-57 (2011).



33. Synthesis of some Triazolophthalazine derivatives for their anti-inflammatory and antimicrobial activities, Nargues S. Habib, Ahmed M. Farghaly, Fawzia A. Ashour, **Adnan A. Bekhit**, Heba A. Abd El Razik and Tarek Abd El Azeim, *Arch. Pharm. Chem. Life Sci.*, **344**, 530-542 (2011).
34. HPTLC-densitometry method development and validation for simultaneous determination of Lamivudine, Nevirapine and Zidovudine in fixed dose combinations. Gebremedhin Solomon, Ariaya Hymete, Abdel-Maaboud Ismail Mohamed, **Adnan A. Bekhit**, *Thai J. Pharm. Sci.* **55**, 77-88 (2011).
35. Simultaneous determination of ampicillin sodium and sulbactam sodium in binary mixtures and commercial forms using chemometrics-assisted spectrophotometric techniques, Zalalem M., Abdel Maaboud I. Mohamed, **Adnan A. Bekhit**, Ariaya Hymete, *Thai. J. Pharm. Sci.*, **35**, 110-122 (2011).
36. Novel Selective COX-2 inhibitor Pyrazole Derivative Proven Effective as Anti-inflammatory and Analgesic Drug, Amira M. Senbel, Mohy El-Din M M, Bistawroos A A, El-Mallah A, Nour El-Din A. N., **Bekhit A. A.**, Abd El Razik A. H. *Basic and Clin. Pharma. & Toxicol.*, **108**, 263-273 (2011)
37. Synthesis of some pharmacologically active thieno[2,3-d]pyrimidinone derivatives, Omaira . Aboulwafa, Ahmed M. Farghaly, Mona A. El-Semary, **Adnan A. Bekhit**, Mai S. El-Shoukrofy, *Alex. J. Pharm. Sci.* **25**, 7-14 (2011).
38. Multi residue analysis of pesticides in wheat and khat collected from different regions of Ethiopia, Daniel Daba, Ariaya Hymete, **Adnan A. Bekhit**, Abdel Maaboud I. Mohamed, Alaa El-Din A. Bekhit, *Bull. Environ. Contam. Toxicol.*, **86(3)**, 336-341 (2011).
39. HPTLC-densitometry method development and validation for simultaneous determination of abacavir, lamivudine and zidovudine in combined dosage form. Adissu Alemayehu, Abdel-Maaboud I. Mohamed, Ariaya Hymete and **Adnan A. Bekhit**, *J. Iran. Chem. Res.* **4**, 251-262 (2011).
40. Structure-radical scavenging activity relationship of Hydroxytoluene derivatives, Baye Akele, Ariaya Hymete, **Adnan A. Bekhit**, *J. Iran. Chem. Res.*, **3**, 141-153 (2010).
41. Synthesis and Biological Evaluation of Some Thiazoly pyrazole Derivatives as Dual Anti-inflammatory antimicrobial Agents, **Adnan A. Bekhit**, Hesham T. Y. Fahmy, Sherif A. F. Rostom, Alaa El-Din A. Bekhit, *Eur. J. Med. Chem.* **45(12)**, 6024-6038 (2010).
42. Pyrazoles as promising scaffold for the synthesis of anti-inflammatory and /or antimicrobial agent: A review, **Adnan A. Bekhit**, Ariaya Hymete, Alaa El-Din A. Bekhit, Ashenafi Damtew, Hassan Y. Aboul-Enein, *Mini Rev. Med. Chem.*, **10(11)**, 1014-1033 (2010).
43. Synthesis of new series of quinoxaline based MAO-inhibitors and docking studies, Khattab S. N., Hassan S. Y., **Bekhit A. A.**, El-Massry A.M., Langer V., Amer A., *Eur. J. Med. Chem.* **45**, 4479-4489 (2010).

44. Simultaneous spectrophotometric determination of iron (II) and copper (II) in pharmaceutical by chemometrics methods, Melisew Tadele Alula, Abdel-Maboud I. Mohamed, **Adnan A. Bekhit**, *Thai J. Pharm. Sci.* **34**, 93-106 (2010).
45. Synthesis and biological evaluation of Pyridine derivatives as antimicrobial agents, Dagim Ali Hussein, **Adnan A. Bekhit**, Ariaya Hymete, *Ethio. Pharm. J.* **27**, 112-122 (2009).
46. Inhibition of growth of *leishmania donovani* promastigotes by newly synthesized 1,3,4-thiadiazole analogs, Ahmed Al-Qahtani, Yunus M. Siddiqui, **Adnan A. Bekhit**, Ola A. El-Sayed, Hassan Y. Aboul-Enein, Mohammed N. Al-Ahdal, *Saudi Pharm. J.*, **17 (3)**, 231-237 (2009).
47. Synthesis and biological evaluation of novel pyrazole derivatives as anti-inflammatory antimicrobial agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Alaa El-Din A. Bekhit, Salma A. Bekhit, *Med. Chem.* **5(2)**, 103-117 (2009).
48. Synthesis of some pyrazolylbenzenesulfonamide derivatives as anti-inflammatory antimicrobial agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Alaa El-Din A. Bekhit, Hamdy M. Abdel-Rahman, Salma A. Bekhit, *J. Enzyme Inhib. Med. Chem.*, **24(1)**, 296-309 (2009).
49. Synthesis of some pyridazinylacetic acid derivatives as a novel class of monoamine oxidase-A inhibitors, Khattab S.N., **Bekhit A.A.**, El-Faham A., El-Massry A.M., Amer A., *Chem Pharm Bull (Tokyo)*, **56(12)**:1717-21 (2008).
50. Synthesis and antimicrobial evaluation of thiophene-linked nitrogen containing heterocycles, Abdel-Chany Y. S., Hazzaa, A. A., Abdul Ghani M. M., **Bekhit A. A.**, Kassem Z. A., *Alex. J. Pharm. Sci.* **22**, 23-31 (2008)
51. Synthesis and biological evaluation of some thiazolyl and thiadiazolyl derivatives of *IH*-pyrazole as anti-inflammatory-antimicrobial agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Yasser S. Abdel-Chany, Alaa El-Din A. Bekhit and Azza M. Baraka, *Eur. J. Med. Chem.* **43**, 456-463 (2008).
52. Cytotoxic and genotoxic potential of newly synthesized antiviral aminopyrazoloquinoline derivatives, Jamal M. Arif, Mohammed Kunhi, Manogaran P. Subramanian, **Adnan A. Bekhit**, Ola A. El-Sayed, Khalid Al-Hussein, Hassan Y. Aboul-Enein, Fahad M. Al-Khodairy, *Med. Chem. Res.* **17**, 297-304 (2008).
53. Evaluation of cytotoxic potential of newly synthesized antiviral Aminopyrazoloquinoline derivatives, Jamal M. Arif, Mohammed Kunhi, Manogaran P. Subramanian, **Adnan A. Bekhit**, Ola A. El-Sayed, Khalid Al-Hussein, Hassan Y. Aboul-Enein, Fahad M. Al-Khodairy, *Int. J. Biomed. Sci.* **3(3)**, 194-198 (2007).

54. Synthesis and biological evaluation of some novel pyrazole derivatives as anti-inflammatory-antimicrobial agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Alaa El-Din A. Bekhit, Azza M. Baraka, *Drugs Fut.*, **32**(Suppl. A): 38 (2007).
55. Evaluation of apoptosis-induced by newly synthesized Phtalazine derivatives in breast cancer cell lines, Jamal M. Arif, Muhammad Kunhi, **Adnan A. Bekhit**, Manogaran P. Subramanian, Khalid Al-Hussein, Hassan Y. Aboul-Enein, Fahad M. Al-Khodairy, *Asian Pacific J. Can. Prev.*, **7**, 249-52 (2006).
56. Synthesis and biological evaluation of some amino-acid derivatives as a novel class of Monoamine Oxidase-A inhibitors, **Adnan A. Bekhit**, Azza M. Baraka, *Peptide Science* 195-196 (2006).
57. Synthesis of 3-benzyl-2-substituted quinoxalines as novel monoamine oxidase A inhibitors, Hassan S. Y., Khattab S. N., **Bekhit A. A.**, Amer A., *Bioorg. Med. Chem. Lett.***16**, 1753-1756 (2006).
58. Synthesis and Biological Evaluation of Some Hydroxypyrazole Derivatives as Anti-inflammatory Antimicrobial Agents, **Bekhit A. A.**, Abdel-Rahman H. M., Gumei A. A., *Arch. Pharm. Chem. Life Sci.*, **339**, 81-87 (2006).
59. Effect of Pyrazoloquinoline derivatives on the growth of *Leishmania donovani* promastigotes, Al-Qahtani A., Siddiqui Y. M., **Bekhit A. A.**, El-Sayed O. A., Aboul-Enein H. Y., Al-Ahdal M. N., *Arch. Pharm. Chem. Life Sci.* **338**, 484-487 (2005).
60. Novel milrinone analogs of pyridine-3-carbonitrile derivatives as promising cardiotoxic agents, **Bekhit A. A.**, Baraka A. M., *Eur. J. Med. Chem.* **40**, 1405-1413 (2005).
61. Synthesis and biological evaluation of some pyridine-3-carbonitrile derivatives as cardiotoxic agents, **Bekhit A. A.**, Baraka A. M., *Boll. Chim. Farmac.* **145**, 133-138 (2005).
62. Synthesis of some thiazolidine derivatives of 1,4-benzoquinone as potential antimicrobial agents, Chaaban I., **Bekhit A. A.**, El-Sayed O. A., Aboulmaged E., *Assiut Bull. Pharm. Sci.*, **28**, 1-7 (2005).
63. Novel Pyrazole Derivatives as Potential Promising Anti-inflammatory Antimicrobial Agents, **Bekhit A. A.**, Ashour H. M., Gumei A. A., *Arch. Pharm. Chem. Life Sci.*, **338**, 167- 174 (2005).
64. Evaluation of some pyrazoloquinolines as inhibitors of herpes simplex virus type 1 replication, **Bekhit A. A.**, El-Sayed O. A., Aboul-Enein H. Y., Siddiqui Y. M., Al-Ahdal M. N, *Arch. Pharm. Chem. Life Sci.*, **338**, 74 – 77 (2005).
65. Coupling reactions of Hydralazine with amino acids and their adducts for antihypertensive activities, Khattab S. N., El Massry A. M., El-Faham A., **Bekhit A. A.**, Amer A., *J. Heterocyclic Chem.*, **41**, 387-392 (2004).
66. Synthesis, Characterization and Cytotoxicity Evaluation of Some new Platinum(II) Complexes of Tetrazolo[1,5-*a*]quinolines, **Bekhit A. A.**, El-Sayed O. A., Al-Allaf T. A. K., Abou-Enein H. Y.,

- Kunhi M., Subramanian M., Al-Hussain K., El-Khodairy F., Arif J., *Eur. J. Med. Chem.*, **39**, 499-505 (2004).
67. Synthesis of some Thiazolyl and Thiadiazolyl derivatives of 4(3H)-Quinazolinone as anti-inflammatory-antimicrobial agents, **Bekhit A. A.**, Habib N. S., Park J. Y., *Boll. Chim. Farmac.*, **143**, 34-39 (2004).
68. Tetrazolo[1,5-a]quinoline as a potential promising new scaffold for the synthesis of novel anti-inflammatory and antibacterial agents, **Bekhit A. A.**, El-Sayed O. A., Aboulmaged E., Park J. Y., *Eur. J. Med. Chem.* **39**, 249-255 (2004).
69. Design, synthesis and biological evaluation of some Pyrazole derivatives as anti-inflammatory-antimicrobial agents, **Bekhit A. A.**, Abdel-Azeim T., *Bioorg. Med. Chem.* **12**, 1935-1945 (2004).
70. Synthesis of aldehydo-sugar derivatives of pyrazoloquinoline as inhibitors of herpes simplex virus type 1 replication, **Bekhit A. A.**, El-Sayed O. A., Aboul-Enein H. Y., Siddiqui Y. M., Al-Ahdal M. N, *J. Enzyme Inhib. Med. Chem.* **19**, 33-38 (2004).
71. Synthesis and biological evaluation of some new substituted Naphthoquinones, Habib N. S., **Bekhit A. A.**, Park J. Y., *Boll. Chim. Farmac.* **142**, 232-238 (2003).
72. Design and synthesis of some substituted *IH*-Pyrazolyl Oxazolidines or *IH*-Pyrazolyl Thiazolidines as anti-inflammatory-antimicrobial agents, **Bekhit A. A.**, Fahmy H. T. Y., *Archiv Pharm. Pharm. Med. Chem.* **336**, 111-118 (2003).
73. Design and synthesis of some substituted *IH*-Pyrazolyl Thiazolo[4,5-d] Pyrimidines as anti-inflammatory-antimicrobial agents, **Bekhit A. A.**, Fahmy H. T. Y., Rostom S. A. F., Baraka A. M., *Eur. J. Med. Chem.* **38**, 27-36 (2003).
74. Thioglycolic acid and Pyrazole derivatives of 4(3H)-Quinazolinone: Synthesis and antimicrobial evaluation, Farghaly A. M., Soliman R., Khalil M. A., **Bekhit A. A.**, Bekhit A. E. A., *Boll. Chim. Farmac*, **141**, 372--378 (2002).
75. Synthesis of some new Bis-thiazoles as possible anticancer agents, Fahmy H. T. Y., **Bekhit A. A.**, *Pharmazie* **57**, 800-803 (2002).
76. Synthesis and antitumor evaluation of new polysubstituted Thiazole and derived Thiazolo[4,5-d]pyrimidine systems, Fahmy H. T. Y., Rostom S. A. F, **Bekhit A. A.**, *Archiv Pharm. Pharm. Med. Chem.* **335**, 213-222 (2002).
77. Synthesis and Antimicrobial Evaluation of Chalcone and Sydnone Derivatives of 4(3H)-Quinazolinone, **Bekhit A. A.**, Habib N. S., Bekhit A. E. A., *Boll. Chim. Farmac.*, **140**, 297-301 (2001).

78. Fused Cinnolines: Synthesis and biological activity, **Bekhit A. A.**, *Boll. Chim. Farmac.*, **140**, 243-253 (2001).
79. Synthesis of 2,5-Disubstituted -1,4-benzoquinone derivatives as potential antimicrobial agents, **Bekhit A. A.**, Chaaban I., Abdel-Ghany Y. S., *Proceedings of Assiut University 2<sup>nd</sup> Pharmaceutical Sciences Conference, 8-9 March, 2000*, pp.107-114.
80. Design and synthesis of some Oxadiazolyl, Thiadiazolyl, Thiazolidinyl and Thiazolyl derivatives of 1H-Pyrazole as anti-inflammatory antimicrobial agents, Farghaly A. M., **Bekhit A. A.**, Park J. Y., *Archiv Pharm. Pharm. Med. Chem.*, **333**, 53-57 (2000).
81. Allophenylnorstatine containing HIV-1 protease inhibitors: design, synthesis and structure-activity relationships for selected P2 and P2' ligands, **Bekhit A. A.**, Matsumoto, Abdel-Rahman H. M. M., Mimoto T., Nojima S., Takaku H., Kimura T., Akaji K., and Kiso Y., *Y. Shimonishi (ed): Peptide Science Present and Future, 660-662(1999) Kluwer Academic Publisher, Great Britain*.
82. Allophenylnorstatine containing HIV-1 protease inhibitors: design, synthesis and structure-activity relationships for selected P2 ligands, Abdel-Rahman H. M. M., Matsumoto H., **Bekhit A. A.**, Mimoto T., Nojima S., Takaku H., Kimura T., Akaji K., Kiso Y., *Y. Shimonishi (ed): Peptide Science Present and Future, 662-664, (1999) Kluwer Academic Publisher, Great Britain*.
83. Synthesis of novel Benzoquinone and Hydroquinone derivatives bearing different Heterocyclic systems as potential antimicrobial agents, Chaaban I., **Bekhit A. A.**, Abdel-Ghany Y. S.. *Egypt. J. Pharm. Sci.*, **39**, No. 1-3, 91-107(1998).
84. Non-Steroidal anti-inflammatory agents: Synthesis of novel benzopyrazolyl, benzoxazolyl and quinazolinyl derivatives of 4(3H)-quinazolinones, **Bekhit A. A.**, Khalil M. A., *Pharmazie* **53**, 539-543(1998).
85. Novel Thiazolidinyl-4(3H)-quinazolinones as potential antimicrobial agents, Farghaly A. M., Soliman R., Khalil M. A., **Bekhit A. A.**, *Alex. J. Pharm. Sci.* **11(2)**, 69-74(1997).
86. Anticonvulsant and hypnotic agents: Novel Thiobarbituric acid derivatives of 4(3H)-Quinazolinones, Farghaly A. M., Soliman R., Khalil M. A., **Bekhit A. A.**, El-Mallah A. I., *Alex. J. Pharm. Sci.* **11(1)**, 37(1997).
87. Synthesis and antimicrobial evaluation of some Quinazolinone derivatives, **Bekhit A. A.**, *Bull. Pharm. Sci. Assiut University*, **18(2)**, 107-114(1995).
88. Non-Steroidal anti-inflammatory agents: Novel Pyrazolyl-, 1,2-Oxazolyl-, and 1,3-Diazinyl derivatives of 4(3H)-Quinazolinones. Farghaly A. M., Soliman R., Khalil M. A., **Bekhit A. A.**, *Arch. Pharm. (Weinheim)* **327**, 27-30(1994).

89. Non-Steroidal anti-inflammatory agents. III: Synthesis of novel Pyrazole derivatives of 4(3H)-Quinazolinones, Farghaly A. M., Chaaban I., Khalil M. A., **Bekhit A. A.**, *Alex. J. Pharm. Sci.* **4(1)**, 52(1990).
90. Non-Steroidal anti-inflammatory agents, synthesis of novel 2-Pyrazolyl-4(3H)-Quinazolinones. Farghaly A. M., Chaaban I., Khalil M. A., **Bekhit A. A.**, *Arch. Pharm. (Weinheim)* **323**, 833(1990).
91. Non-Steroidal anti-inflammatory agents, II: Synthesis of novel Pyrazole and Pyrazoline derivatives of 4(3H)-Quinazolinone, Farghaly A. M., Chaaban I., Khalil M. A., **Bekhit A. A.**, *Arch. Pharm. (Weinheim)* **323**, 311-315(1990).

#### **Publications submitted:**

1. Design and Synthesis of New s-Triazine Base Polymers and their Application as Tumor-Targeted Nanoparticulate Drug Delivery Systems, Khattab, Sherine; Abdel Naim, Samar ; El-Sayed, Mousa ; El Bardan, Aly ; Elzoghby, Ahmed; Bekhit, Adnan; El-Faham, Ayman, *J. Med. Chem.* (in Press).
2. Chemometrics assisted spectrophotometric determination of certain pharmaceuticals containing candesartan cilexetil and hydrochlorothiazide, Abd El-Maaboud Ismail Mohamed, **Adnan Ahmed Bekhit**, Ariaya Hymete, Yitayal Admassu Workie, Alaa El- Din Ahmed Bekhit, *J. Chil. Chem. Soc.* (Submitted).
3. Evaluation of Heavy Metal Pollution in Some Ethiopian Lakes, Hailemariam Abrha' Ariaya Hymete, **Adnan A. Bekhit** and Alaa El-Din A. Bekhit, *Polish Journal of environmental Studies* (Submitted)

#### **Books and books chapters**

1. Bekhit, A. E. D., Cheng, V. J., Harrison, R., Ye, Z., **Bekhit, A. A.**, Ng, T. B., Kong, L. (2015). Technological aspects of by-product utilization (117-198). In: Valorization of Wine Making By-Products, Matteo Bordiga (Edit). CRC Press 2015, Print ISBN: 978-1-4822-5533-1, eBook ISBN: 978-1-4822-5534-8, DOI: 10.1201/b19423-
2. A.E.D. Bekhit and **A.A. Bekhit** (2014). Natural Antiviral Compounds. In: Studies in Natural Products Chemistry, Atta-ur-Rahman (Ed.). Vol. 42. <http://dx.doi.org/10.1016/B978-0-444-63281-4.00007-0>, Elsevier.
3. Pyridine Derivatives as Anti-malarial Agents, Ashenafi Damtew mamuye, **Adnan A. Bekhit**, Ariaya Hymete, Lambert Academic publishing, ISBN-13: 978-659-44379-4 (2013), Amazon

## Patents

1. Design, Synthesis and Biological Evaluation of Some Pyrazole Derivatives as Anti-inflammatory-Antimicrobial Agents, **A. A. Bekhit**, Egyptian Patent, No. 27149, (Aug. 10, 2015).
2. Synthesis of some pyrazole derivatives as anti-inflammatory-antimicrobial agents, **A. A. Bekhit**, Egyptian Patent, Appl. No. 465 9 2007.

## Participation in national and International Conferences or Symposia

1. Synthesis of some pyrazole derivatives as dual acting antileishmanial-antimalarial agents, **Adnan A. Bekhit** and Alaa El-Din A Bekhit, P-70, *14<sup>th</sup> International Conference on The Chemistry of Antibiotics and Other Bioactive Compounds.*, Galveston, TX, USA Oct. 13-16, **2015**.
2. Synthesis and biological evaluation of Pyridine derivatives as antimicrobial agents, Dagim Ali Hussein, **Adnan A. Bekhit**, Ariaya Hymete, *17<sup>th</sup> International Conference in Biodiversity and Agricultural Genetic Engineering*, Miami USA March 9-10, **2015**.
3. Design and synthesis of novel dual acting antileishmanial-antimalarial agents derived from pyrazole, **Adnan A. Bekhit**, Ahmed M. M. Hassan, Heba A. Abd El Razik, Mostafa M. M. El-Miligy, Eman J. El-Agroudy and Alaa El-Din A. Bekhit, P0-51, *5<sup>th</sup> International Conference on Drug Discovery & Therapy*, Dubai, U.A.E., Feb. 18-21, **2013**.
4. Design and synthesis of novel dual acting antileishmanial-antimalarial agents derived from pyrazole, **Bekhit A. A.** , Hassan A. M. M., Abd El Razik H. A., El Miligy M. M. M., El-Agroudy E. J., PP30, *1<sup>st</sup> International Conference on Science Diplomacy and Developments in Chemistry*, Alexandria, Egypt, Nov., 24-26, **2012**.
5. Synthesis and biological evaluation of Thienylpyrazoline derivatives as antimalarial and antileishmanial agents, Haimanot T., **Bekhit A. A.**, Hymete A., Tschammer N., *6<sup>th</sup> Summer School "Medicinal Chemistry"* University of Regensburg, Germany, Sept. 26-28, **2012**.
6. Effect of the extraction system and method of hydrolysis on indirect quantification of cyanogenic glycosides in flaxseed meal. Jodjaja, T. K. K., Bekhit, A. E. D., **Bekhit, A. A.**, P-26, *Institute of Food Science and Technology Annual Conference*, Hamilton, New Zealand, June 26-28, **2012**.
7. Effect of the extraction system and method of hydrolysis on indirect quantification of cyanogenic glycosides in flaxseed meal, Teguh K. K., Jodjaja, Alaa El-Din A. Bekhit, **Adnan A. Bekhit**, *International Conference of Agricultural Engineering*, C2236, Valencia, Spain, July 8-12, **2012**.
8. The potential use of wine lees in health applications, Alaa El-Din A. Bekhit, **Adnan A. Bekhit**, *International Conference of Agricultural Engineering*, C2240, Valencia, Spain, July 8-12, **2012**.

9. Optimisation of the use of the extraction system and method hydrolysis for indirect quantification of cyanogenic glycosides in flaxseed meal, Teguh Jodjaja, Alaa El-Din Bekhit, **Adnan Bekhit**, *The NZIFST 2012 conference*, Hamilton, New Zealand, 26-28 June, **2012**.
10. The potential use of red wine lees in health application, A.E.A. Bekhit, M. McConnell, **A.A. Bekhit**, V.J. Cheng, R. Harrison, *US-NZ Science and Technology Workshop*, Postharvest innovation for safe, attractive and nutritious horticultural produce, Dunedin, New Zealand, 23-25 August **2011**.
11. Synthesis and biological evaluation of novel triazolophthalazine derivatives as potential anticancer and antimicrobial agents, A. M. Farghaly, N. S. Habib, F. A. Ashour, **A. A. Bekhit**, H. A. Abd El Razik, *The fourth international Chemistry Conference*, Riyadh, Saudi Arabia, Nov. 19-21, **2011**.
12. Pyrazole as promising scaffold for the synthesis of dual acting anti-inflammatory-antimicrobial agents, **Adnan A. Bekhit**, *International Symposium on National Products and their Applications in Health and Agriculture*, PL9, Kandy, Sri Lanka, (Member of international Scientific Committee)m Oct. 3-8, **2011**.
13. Novel Selective COX-2 Inhibitor Pyrazole derivative proven effective as anti-inflammatory and analgesic drug, Senbel A. M., Mohy El-Din M. M., Bisstawros A. A., El-Mallah A., Nour El-Din N. A., **Bekhit A. A.**, Abdel Razek H., Paper No. 760, Focused conference group: P09-inflammation and immunopharmacology: New tools for old diseases, *2010 Nordic Pharmacological Society, Basic & Clinical Pharmacology & Toxicology*, 107 (Suppl. 1), Bella Centre, Copenhagen, Denmarkm 17-23 July **2010**.
14. Novel selective COX-2 inhibitor Pyrazole derivative proven effective as anti-inflammatory and analgesic drug, Senbel A. M., Mohy El-Din M. M., Bisstawros A. A., El-Mallah A., Nour El-Din N. A., **Bekhit A. A.**, Abdel Razek H., *51<sup>st</sup> annual conference of the Egyptian society of pharmacology experimental therapeutics basic and clinical pharmacology*, **P18**, Ain Shams University, Cairo, Egypt, 16-17 March **2010**.
15. Synthesis of some thienopyrimidinone and triazolothienopyrimidinone derivatives as potential DNA intercalators and antimicrobial agents, Ahmed M. Farghaly, Ragab M. Shafik, **Adnan A. Bekhit**, Mona M. A. Elsemary, Alaa El-Din A. Bekhit, Mai S. El-Shoukrofy, *42<sup>nd</sup> IUPAC Congress: Chemistry Solutions*, SECC, Glasgow, UK, 2 - 7 August **2009**.
16. Synthesis and biological evaluation of some novel pyrazole derivatives as anti-inflammatory-antimicrobial agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Alaa El-Din A. Bekhit, Azza M. Baraka, *6<sup>th</sup> AFMC International Medicinal Chemistry Symposium*, Istanbul, Turkey, July 8-11, **2007**.



17. Synthesis of some pharmacologically active Thieno[3,4-d]pyrimidinone derivatives, Ahmed M. Farghaly, Omaima M. Aboulwafa, Mona A. El-Semary, **Adnan A. Bekhit**, Mai S. El-Shoukrofy, *7<sup>th</sup> Saudi Pharmaceutical International Conference*, Riyadh, KSA, March **2007**.
18. Synthesis and evaluation of some 7-Hydroxycoumarin derivatives as anti-inflammatory agents, Adel S. El-Azab, Sami G. Abdel-Hamide, **Adnan A. Bekhit**, Maged S. Abdel-Kader, *The 7<sup>th</sup> International Saudi Pharmaceutical Conference*, Riyadh, KSA, March 17-20, **2007**.
19. Synthesis of some triazolophthalazine derivatives for their antihypertensive activities, A. M. Farghaly, N. S. Habib, F. A. Ashour, **A. A. Bekhit**, H. A. Abd El Razik, A. M. Baraka, *10<sup>th</sup> Ibn Sina International Conference on Pure and Applied Chemistry*, Luxor, Egypt, Feb. **2007**.
20. Synthesis and biological evaluation of some amino acid derivatives as a novel class of Monoamine Oxidase-A inhibitors, **Adnan A. Bekhit** and Azza M. Baraka, *International Conference of 43<sup>rd</sup> Japanese Peptide Symposium and 4<sup>th</sup> Peptide Engineering Meeting*, Yokohama, Japan, Nov. 5-8, **2006**.
21. Synthesis and evaluation of some umbelliferone derivatives as anti-inflammatory agents, **Adnan A. Bekhit**, Maged S. Abdel Kader, *The 9<sup>th</sup> International Pharmaceutical Sciences Conference & Exposition*, Riyadh, KSA, **2005**.
22. Synthesis of some tetrahydrobenzo[b]thieno[2,3-d]pyrimidinone derivatives of potential pharmacologic activities, Ahmed M. Farghaly, Omaima M. Aboul Wafa, Mona A. El-Semary, **Adnan A. Bekhit**, Mai S. El-Shoukrofy, *The 9<sup>th</sup> International Pharmaceutical Sciences Conference & Exposition*, Riyadh, KSA, **2005**.
23. Novel Pyrazole derivatives as anti-inflammatory-antimicrobial agents; Synthesis as optimum dosing in experimental animals, **Adnan A. Bekhit**, Elsayed Aboulmagd, Azza M. Baraka, *World Conference on Dosing of Anti-infectives*, Nürnberg, Germany, (Invited Participant).
24. *Biovision Alexandria 2004*, Bibliotheca Alexandrina, conference Center, April 3-6<sup>th</sup>, **2004** (Invited Participant), Sept. 9-11<sup>th</sup>, **2004**.
25. Novel Pyrazole derivatives as potential promising anti-inflammatory antimicrobial Agents, **Adnan A. Bekhit**, Hayam M. A. Ashour, Aida A. Guemei, *Assuit University 3<sup>rd</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assuit, Egypt, March 6-7<sup>th</sup>, 2004*, P 90.
26. Synthesis of some thiazolidine derivatives of 1,4-benzoquinone as potential antimicrobial agents, I. Chaaban, **A. A. Bekhit**, E. Aboulmagd, *Assuit University 3<sup>rd</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assuit, Egypt, March 6-7<sup>th</sup>, 2004*, P 91.

27. Novel 1*H*-Pyrazole derivatives as promising anti-inflammatory-antimicrobial agents. **Adnan A. Bekhit**, Tarek Abdel-Azeim, Abst. L 471, *Second International Conference on Chemistry and its Applications, Doha, Qatar, Dec. 6-9<sup>th</sup>, 2003*.
28. Novel 1*H*-Pyrazole derivatives as anti-inflammatory-antimicrobial agents. **Adnan A. Bekhit**, Tarek Abdel-Azeim, Abst. P16, *Second International Conference on New Biomedical Materials, Cardiff, Wales, UK, 5-8<sup>th</sup> April, 2003*.
29. Synthesis and biological evaluation of some new substituted Naphthoquinones, N. S. Habib, **A. A. Bekhit**, Abst. P40, *The First International Congress of Pharmaceutical and Drug Industries Division, National Research Center, Cairo, Egypt, March 24-26<sup>th</sup>, 2003*.
30. Design and synthesis of some 1*H*-Pyrazole derivatives as anti-inflammatory-antimicrobial agents. **Adnan A. Bekhit**, Hesham T. Y. Fahmy, Sherif A. F. Rostom, Tarek Abdel-Aziem, *XXVIII International Conference of Pharmaceutical Sciences, Cairo, Egypt, Dec. 17-19<sup>th</sup>, 2002*, Abst. P 81.
31. New agents for treating contact dermatitis associated with petroleum industry. **Adnan A. Bekhit**, Ola A. El-Sayed, Fayrouz K. Badran, Azza M. Baraka, PP No. WAT-P6, *5<sup>Th</sup> International Conference & Exhibition on Chemistry in Industry, Manama, Bahrain, 14-16<sup>th</sup> October, 2002*.
32. Design, synthesis and cardiotoxic evaluation of 4-aryl-6-(4-pyridyl)-3-cyano-2(1*H*)-pyridinones and their 2-imino isosteres. **Adnan A. Bekhit**, Azza M. Baraka, Abst. P114, *14<sup>th</sup> International Conference on Organic Synthesis, Christchurch, New Zealand, 14-18<sup>th</sup> July, 2002*.
33. Design and synthesis of some 1*H*-pyrazolyl Derivatives of Thiazolo[4,5-*d*]pyrimidines as anti-inflammatory antimicrobial agents. **Adnan A. Bekhit**, Hesham T. Y. Fahmy, Sherif A. F. Rostom, Azza M. Baraka, P 60, *Assuit University 3<sup>rd</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assuit, Egypt, March 5-6<sup>th</sup>, 2002*.
34. Design, synthesis and biological evaluation of some Pyrazole derivatives as anti-inflammatory antimicrobial agent. **Adnan A. Bekhit**, Abst. P 34, *Al-Azhar 2<sup>nd</sup> International Conference for Pharmaceutical and Biological Sciences, Cairo, Egypt, 19-21<sup>st</sup> Dec. 2001*.
35. 4(3*H*)-Quinazolinone derivatives: Synthesis and antimicrobial evaluation. **A. A. Bekhit**, A. M. Farghaly, R. Soliman, M. A. Khalil, Abst. PP 279, *The Eighth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-8), Kyoto, Japan, July 11-15<sup>th</sup>, 2000*.
36. Design and synthesis of some Thienylpyrazole derivatives as anti-inflammatory antimicrobial agents. **Adnan A. Bekhit**, Abst. P 350, *7<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Alexandria, Egypt, 25-28<sup>th</sup> March 2000*.

37. Synthesis of 2,5-disubstituted –1,4-benzoquinone derivatives as potential antimicrobial agents. **A. A. Bekhit**, I. Chaaban, Y. S. Abdel-Ghany, Abst. pp 104, *Assiut University 2<sup>nd</sup> Pharmaceutical Sciences Conference, Assiut, Egypt, 8-9<sup>th</sup> March, 2000*.
38. Allophenylnorstatine containing HIV-1 protease inhibitors: design, synthesis and structure-activity relationships for selected P2 and P2' ligands. **Adnan A. Bekhit**, Hikaru Matsumoto, Hamdy M. M. Abdel-Rahman, Tsutomu Mimoto, Satoshi Nojima, Harou Takaku, Tooru Kimura, Kenichi Akaji and Yoshiaki Kiso, Abst. P 205, *First International Peptide Symposium, Kyoto, Japan, Nov.30 – Dec.5<sup>th</sup>, 1997*.
39. Allophenylnorstatine containing HIV-1 protease inhibitors: design, synthesis and structure-activity relationships for selected P2 ligands. Hamdy M. M. Abdel-Rahman, Hikaru Matsumoto, **Adnan A. Bekhit**, Tsutomu Mimoto, Satoshi Nojima, Harou Takaku, Tooru Kimura, Kenichi Akaji and Yoshiaki Kiso, Abst. P 206, *First International Peptide Symposium, Kyoto, Japan, Nov.30 – Dec.5<sup>th</sup>, 1997*.
40. Small-sized HIV protease inhibitors containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. Yoshiaki Kiso, Hikaru Matsumoto, Tsutomu Mimoto, Ryohei Kato, Satoshi Nojima, Haruo Takaku, Tominaga Fukazawa, Keisuke Terashima, **Adnan A. Bekhit**, Tooru Kimura, Kenichi Akaji., Abst. L 12, *International Conference on protease Inhibitors '97, Kyoto, Japan, 4 Dec. 6<sup>th</sup>, 1997*.

#### **Participation in National and International Seminars or Workshops**

1. Drug Discovery; The Long Journey, Hunan Agriculture University, China, Sept. 22<sup>nd</sup>, **2010** (Invited speaker)
2. The Botanical Products Industries in Egypt, Hunan Agriculture University, China, Sept. 10<sup>th</sup>, **2010** (Invited speaker).
3. International workshop on Botanical extracts processing technology, Hunan Agriculture University, China, Sept. 7<sup>th</sup>-27<sup>th</sup>, **2010** (Invited participant).
4. 2009 International workshop of tea fine processing technology, Hunan Agriculture University, China, Sept. 7<sup>th</sup>-26<sup>th</sup>, **2009** (Invited participant).
5. Discussion on malaria related research in Ethiopia, AMREF, Addis Ababa, Ethiopia, March 19<sup>th</sup>, **2009** (Invited participant).
6. Establishment of drug discovery projects with the available limited facilities, Design of dual acting anti-inflammatory-antimicrobial agents. School of pharmacy, Addis Ababa University, Ethiopia, July 24<sup>th</sup>, **2008** (Invited speaker)

7. Design of cardiovascular agents with the available limited facilities. School of pharmacy, Addis Ababa University, Ethiopia, July 25<sup>th</sup>, **2008** (Invited speaker).
8. Pre-Conference workshops of the ‘World Conference on Dosing of Antiinfectives, Nürnberg, Germany, Sept. 6-8<sup>th</sup> **2004** (Invited Participant).
9. The Use of Crystallography in Genes Drug Design. The Egyptian Society of Crystallography and Applications, Ain Shams University, Egypt, Jan. 19<sup>th</sup>, **2003**.
10. “Chemical Diversity” Generation and Use in Drug Discovery. Alexandria university, Egypt, 10/**2002**, Invited speaker.
11. Small-sized HIV protease inhibitors containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. Lincoln university, Canterbury, New Zealand, 7/**2002**. Invited speaker.
12. Fused cinnolines: synthesis and biological activity. Alexandria university, Egypt, 4/**2002**, Invited speaker.
13. Recent advances in the treatment of AIDS. Alexandria university, Egypt, 2/**2002**, Invited speaker.
14. Solutions and Integrated Platforms for Bioinformatics, Cheminformatics and Modeling, Workshop, Center of Applied Research and Advanced Studies, Faculty of Pharmacy, Cairo university with collaboration with Accelrys, Egypt, Jun. 11<sup>th</sup>, **2001**, Cairo, Egypt.
15. Recent Trends in Developing HIV Inhibitors, Alexandria university, Egypt, 3/**2000**. Invited speaker.
16. Transponder Technology and SynPhase crowns, Workshop with the collaboration with Chiron Technologies, Kyoto Pharmaceutical University, Japan, 5/**98**.
17. Small-sized HIV protease inhibitors containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. Korea Research Institute of Chemical Technology, Daejeon, Korea, 4/**98**. Invited Speaker.
18. Small-sized HIV protease inhibitors containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. Sookmyung Women’s University, Seoul, Korea, 4/**98**. . Invited Speaker.
19. Quinazoline Derivatives as Antimicrobial and Anti-inflammatory Agents, , Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Japan, 6/**96**. Invited Speaker.
20. Design and Screening of Antimicrobial and Anti-inflammatory Agents, SAIC-NCI-FCRDC, Frederick, MD 21702, USA, 8/**95**. Invited Speaker.

21. Pharmacokinetics of Drugs, SAIC-NCI-FCRDC, Frederick, MD 21702, USA, 7/95. Invited Speaker.
22. Drug Interactions, Students Hospital of Alexandria University, Egypt,3/95. Invited Speaker.

**Service to University and Community:**

**Alexandria University:**

1. Establishment of MOU between Kyoto Pharmaceutical University, Japan and Faculty of Pharmacy, Alexandria university, Egypt and support students Ph.D program at KPU.
2. Establishment of MOU between Faculty of Medicine, Alexandria University, Egypt and Faculty of Pharmacy, Alexandria university, Egypt.
3. Establishment of MOU between Dar Usmael Hospital, Alexandria, Egypt and Faculty of Pharmacy, Alexandria university, Egypt.
4. Oct. 2011- Dec. 2014, Consultant of Faculty of Pharmacy, Alexandria University Students' Union, Egypt.
5. Oct. 2011- Dec. 2014, Director of Students Charity Fund, Faculty of Pharmacy, Alexandria University, Egypt.
6. Oct. 2011- present, Consultant of EPSF-Alex.
7. Feb.2015- present, Consultant of Faculty of Pharmacy Scout team.
8. Oct. 2011- Dec. 2014, Executive Manager of Clinical Pharmacy Program.
9. Oct. 2011- Dec. 2014, Member in African Affairs Committee.
10. Founder, Organizer and Chairman of 1<sup>st</sup> (2003), 2<sup>nd</sup> (2004), 3<sup>rd</sup> (2005) and 4<sup>th</sup> (2006) scientific forums.
11. Supervisor of student scout team and Al-Amel Students' social family (2000-2007).
12. Trustee of Department of Pharmaceutical Chemistry postgraduates research committee (2003-2007).
13. Member of Quality Assurance Unit (2005-2007).
14. Member of Alexandria University's new curriculum and by-law, Faculty of Pharmacy (2005-2007).

**Addis Ababa University:**

Expert Professor of Medicinal Chemistry at Addis Ababa University (AAU). The position was established through the Egyptian Fund for Technical Cooperation with Africa, Ministry of Foreign Affairs, Egypt. The fund supported many projects including:

1. Design and Synthesis of Anti-malarial Agents.

2. Design and Synthesis of Anti-leishmanial Agents.
3. Design and Synthesis of Anti-microbial Agents.
4. Environmental Analysis and safety.
5. Food Analysis and safety.
6. Pharmaceutical Analysis and Method Development.
7. Evaluation of Ethiopian Tea varieties and their effects on antileishmanial drugs.

Also duties included:

1. Revision of both undergraduate and postgraduate medicinal chemistry courses and preparation of modular courses.
2. Establishing of a Ph.D. program.
3. Member of Pharm. Chem. Dept. Academic Committee and Graduate Committee.

The overall aims of the project and research carried out at AAU were;

1. Preparation of staff members in AAU and regional universities in the field of Medicinal Chemistry and Pharmaceutical Analysis.
2. Preparation of researchers able to work and run modern techniques to control the drug quality available in Ethiopia through training of staff at Food, Medicine, Health Care Administration & Control Authority of Ethiopia (FMHCACAE) or similar bodies.
3. Preparation of researchers able to investigate any contaminations in the food, aquatic systems or other ecosystems according to the international standards.

### **References:**

1. Prof. Ahmed M. Farghaly, Ph.D.  
Ex. Chairman, Pharm. Chem. Dept., Faculty of Pharmacy,  
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