

Kingdom of Saudi Arabia
Ministry of Higher Education
KING FAISAL UNIVERSITY

**STAFF RESEARCH
HANDBOOK**



2014

COLLEGE OF CLINICAL PHARMACY

**Kingdom of Saudi Arabia
Ministry of Higher Education
KING FAISAL UNIVERSITY
COLLEGE OF CLINICAL PHARMACY**

**STAFF RESEARCH
HANDBOOK**

2014



STAFF RESEARCH HAND BOOK

2014

College Vision

To be recognized nationally and internationally for preparing **role models** in pharmacy practice, education and research through its commitment to **community engagement**.

College Mission

To excel in pharmacy education, patient centered care, community engagement and research

College Values

Based on Islamic Principles, the College of Clinical Pharmacy promotes an environment of mutual respect and collaboration, where we value:

- Excellence : Pursue exceptional quality and performance in all that we do
- Responsiveness to community
- Lifelong, self directed learning
- Creativity
- Integrity:

at all levels of teaching, training, research and patient care.

CONTENTS

Pharmaceutical sciences	03
Biomedical sciences	54
Pharmacy practice	66
Research Instruments	79

College Strategic Goals

1. Prepare Pharm D graduates through **excellence in Pharmacy education and training**
2. **Recruit**, develop and retain internationally recognized, competent faculty members in all the disciplines.
3. Continue to develop **administration** that will provide leadership for achievement of strategic goals
4. Maintain and enhance the **quality assurance management**, verified through accreditation by National and International Accrediting agencies in Pharmacy Education
5. Engage the **local, national and international** communities for mutual benefits through expanding the opportunities for collaboration, continuing professional development and postgraduate education.
6. Conduct exceptional **research** in basic and clinical sciences.

Dr. Ibrahim A. Alhaider

B. Pharm., King Saud University, KSA,. Ph. D., Univer. of Houston, Houston, USA.

TEACHING EXPERIENCE: Involved in teaching undergraduate students mainly pharmacology.

RESEARCH INTERESTS:

1. Studying the effects of Alzheimer's disease on the hypothetical model of learning and memory using electrophysiological recordings.
2. Molecular Pharmacology of memory in the hippocampus, including the levels of crucial proteins such as brain derived neurotrophic factors and calcium-calmodulin kinase II.
3. Investigating the impact of sleep deprivation on memory-related tasks.
4. The correlation between environmental factors such as caffeine, nicotine, and exercise and spatial memory.

LIST OF PUBLICATIONS:

1. Tahir Mehmood Khan, Syed Azhar Syed Sulaiman, Ibrahim Al-Haider, & Abdul Aziz Alhafez . Pregabalin safety assessment among patients with uraemic pruritus, Letter to the Editor, Australasian Medical Journal, AMJ 2014, 7, 2, 81-82.
2. Alhaider IA. Effects of edavarone on scopolamine induced dementia in experimental rats, Int J Pharmacol. 2013, 9(4): 271-276.
3. Alhaider IA, Mueen Ahmed K.K., Gupta BM. Pharmaceutical research in the Kingdom of Saudi Arabia: A scientometric analysis during 2001–2010, Saudi Pharmaceutical Journal, 2013.
4. Tahir Mehmood Khan, Ibrahim Al-Haider, and Mohamed Azmi Hassali Linguistic validation of the 5D itching scale to Arabic in patients with end-stage kidney disease. Journal of Renal Care, 39(4):222 (2013).
5. Alhaider IA, Mueen Ahmed K.K., Gupta BM. Global research output on date palm (Phoenix dactylifera): a 12 years scientometric perspective. Scientometrics, 2013.



*Room Location : College of
Clinical Pharmacy,
Ph.: 035817175
Extn.: 222
IP Phone : 03-5899896
Email :
ialhaider@kfu.edu.sa*

Research Grants**Received :**

- ◆ *Evaluation of long-term effect of stem-cell therapy for cardiac repair, KACST grant, Strategic Plan, 2012-2014, 200000 SAR.*
- ◆ *Evaluating the therapeutic potential of water-soluble compounds extracted from Phoenix dactylifera (Date fruits) in myocardial infarction: Role of circulating progenitor cells Date Palm Research Center Grant, 2012-2014, 539000 SAR*

Chapters in a Book

◆ *Karim A. Alkadhi, Munder A. Zagaar, Ibrahim A. Alhaider and Karem H. Alzoubi Neuroprotective Effects of Caffeine in Sleep Deprivation in Caffeine: Chemistry, Analysis, Function and Effects, Victor R. Preedy (ed.), 2012 (RSC publishing) King's College, London.*

◆ *Karim A. Alkadhi, Ibrahim Alhaider, Munder Zagaar, Karem Alzoubi. "Food and Nutritional Components in Focus: caffeine: chemistry, analysis, function and effects." Victor R. Preedy (ed.), 2012. The Royal Society of Chemistry (RSC Publishing), King's College, London.*

6. Alhaider IA. Sub-chronic treatment of calcineurin inhibitor averts impairment of cognitive function in animal model of amnesia, *African Journal of Pharmacy and Pharmacology*, 2013, 7(47), 2998-3003. doi:10.5897/AJPP2013.3925.
7. Alhaider IA. Ameliorative Impact of Piracetam on Cognitive Dysfunction Associated with Animal Model of Alzheimer's Disease, *Zagazig J. Pharm. Sci.*, 2013, 22(2), 1-7.
8. Zagaar M, Dao A, Levine A, Alhaider I, Alkadhi K. Regular exercise prevents sleep deprivation associated impairment of long-term memory and synaptic plasticity in the CA1 area of the hippocampus. *Sleep*. 2013, 36(5):751-61. doi: 10.5665/sleep.2642.
9. Zagaar M, Dao A, Alhaider I, Alkadhi K. Regular treadmill exercise prevents sleep deprivation-induced disruption of synaptic plasticity and associated signaling cascade in the dentate gyrus. *Mol Cell Neurosci*. 2013, 56: 375-383. doi: 10.1016/j.mcn.2013.07.011.
10. Alzoubi KH, Khabour OF, Alhaider IA, Aleisa AM, Alkadhi KA. Diabetes impairs synaptic plasticity in the superior cervical ganglion: possible role for BDNF and oxidative stress. *J Mol Neurosci*. 2013, 51(3): 763-770. doi: 10.1007/s12031-013-0061-1.
11. Nair AB, Singh K, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider IA. Skin uptake and clearance of ciclopirox following topical application. *Biopharm Drug Dispos*. 2013, 34: 540-549. doi: 10.1002/bdd.1866.
12. Alkadhi K, Zagaar M, Alhaider I, Salim S, Aleisa A. Neurobiological consequences of sleep deprivation. *Curr Neuropharmacol*. 2013, 11(3): 231-249. doi: 10.2174/1570159X11311030001.
13. Almogbel Y, Abughosh S, Almogbel F, Alhaidar I, Sansgiry S. Predictors of smoking among male college students in the Kingdom of Saudi Arabia. *Eastern Mediterranean Health Journal*, 2013, 19(11): 909-914.
14. Nair AB, Kumria R, Harsha S, Attimarad M, Al-Dhubiab BE, Alhaider IA. In vitro techniques to evaluate buccal films. *J Control Release*. 2013, 166(1): 10-21. doi: 10.1016/j.jconrel.2012.11.019.

Success is the ability to go from one failure to another with no loss of enthusiasm.

15. Khan TM, Al-Haider I, Syed Sulaiman SA, Hassali MA. Linguistic validation of the 5d itching scale to arabic in patients with end-stage kidney disease. *J Ren Care*. 2013, 39(4): 222-227. doi: 10.1111/j.1755-6686.2013.12038.x.
16. Elnakish MT, Hassan F, Dakhlallah D, Marsh CB, Alhaider IA, Khan M. Mesenchymal stem cells for cardiac regeneration: translation to bedside reality. *Stem Cells Int*. 2012;2012:646038. doi: 10.1155/2012/646038. Epub 2012 Jun 7.
17. Attimarad M, Al-Dhubiab BE, Alhaider IA, Nair AB, N SH, K MA. Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry. *Chem Cent J*. 2012, 6(1): 105. doi: 10.1186/1752-153X-6-105.
18. Zagaar M, Alhaider I, Dao A, Levine A, Alkarawi A, Alzubaidy M, Alkadhi K. The beneficial effects of regular exercise on cognition in REM sleep deprivation: behavioral, electrophysiological and molecular evidence. *Neurobiol Dis*. 2012, 45(3): 1153-1162. doi: 10.1016/j.nbd.2011.12.039.
19. Tran TT, Srivareerat M, Alhaider IA, Alkadhi KA. Chronic psychosocial stress enhances long-term depression in a subthreshold amyloid-beta rat model of Alzheimer's disease. *J Neurochem*. 2011, 119(2): 408-416. doi: 10.1111/j.1471-4159.2011.07437.x.
20. Alzoubi KH, Alhaider IA, Tran TT, Mosely A, Alkadhi KK. Impaired neural transmission and synaptic plasticity in superior cervical ganglia from β -amyloid rat model of Alzheimer's disease. *Curr Alzheimer Res*. 2011, 8(4): 377-384.
21. Aleisa AM, Helal G, Alhaider IA, Alzoubi KH, Srivareerat M, Tran TT, Al-Rejaie SS, Alkadhi KA. Acute nicotine treatment prevents REM sleep deprivation-induced learning and memory impairment in rat. *Hippocampus*. 2011 Aug;21(8):899-909. doi: 10.1002/hipo.20806.

DSR, KFU Research Grants received

1. Dr. Maged El-Sayed Mohamed, Dr Ibrahim Alhaider ,Dr Hany Ezzat Khalil, Dr Omar Mohafez, Phytochemical and biological screening of essential oils from some aromatic plant families in the eastern area (Al-Ahsa) of Saudi Arabia, KFU, DSR project, 2014-2015, SAR. 112400
2. Dr. Promise Emeka, Dr. Mohamed Morsy, Dr Ibrahim Alhaider, Dr Maged Elsayed, Subchronic administration of mitoxantrone and the influence of inducing and inhibiting agents on the induction of cardiotoxicity -A metabolic evaluation in mice. KFU, DSR project, 2014-2015, SAR. 72400

DSR Projects

3. Dr. Mohammed Abdou Khedr, Dr. Ibrahim Al-Haider, Dr. Bandar Al- Dhubiab, Dr. Tamer Mustafa, Dr. Maged El- Sayed. Design and Synthesis of Novel Phosphonate Containing molecules that could be used in Treatment of cancer, KFU, DSR Project, 2014-2015, SAR. 96100
4. Dr. Omar Mohafez, Dr. Ibrahim Al-Haider, Dr. Majed Mohamed, Dr. Tamer Shehata, Evaluation of the effect of Arugula, Lupin and Sage oils on levels of different adipokines in obese rats. KFU DSR Project, 2014-2015, SAR 99400
5. Influence of captagon on spatial learning and memory at the behavioral level, KFU annual research grant, 2012-2013, 52000 SAR.

Memberships:

Active member of Saudi pharmaceutical society, Riyadh, Kingdom of Saudi Arabia. 2003-present.

Active member of Society for Neuroscience, Washington DC, USA. 2007-present.

Presentations and Abstracts

1. Mahesh V Attimarad, Bander E Al-Dhubiab, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, Mueen Ahmed K Development of a Rapid and Sensitive RP-HPLC Method for the Determination of Metformin and Vildagliptin in Formulation and Plasma. [American Association of Pharmaceutical Society, AAPS 2013]
2. Mahesh V Attimarad, Bander E Al-Dhubiab, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, Mueen Ahmed K., Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry. [American Association of Pharmaceutical Society, AAPS 2012]
3. Mahesh V Attimarad, Bander E Al-Dhubiab, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, *In vitro* and *in vivo* evaluation of a novel carrier for calcium delivery [AAPS 2012]
4. Mahesh V Attimarad, Bander E Al-Dhubiab, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, Therapeutic drug monitoring of carbamazepine by reverse iontophoresis [AAPS 2012]
5. Mahesh V Attimarad, Bander E Al-Dhubiab, **Ibrahim A Alhaider**, Anroop B Nair and Sree Harsha N, Skin permeation and dermatokinetics of ciclopirox olamine [AAPS 2012]

Success is the ability to go from one failure to another with no loss of enthusiasm.

Presentations and Abstracts

6. Dr. Mohammed Abdou Khedr, Dr. Ibrahim Al-Haider, Dr. Bandar Al- Dhubiab, Dr. Tamer Mustafa, Dr. Maged El- Sayed. Design and Synthesis of Novel Phosphonate Containing molecules that could be used in Treatment of cancer, KFU, DSR Project, 2014-2015, SAR. 96100
7. Dr. Omar Mohafez, Dr. Ibrahim Al-Haider, Dr. Majed Mohamed, Dr. Tamer Shehata, Evaluation of the effect of Arugula, Lupin and Sage oils on levels of different adipokines in obese rats. KFU DSR Project, 2014-2015, SAR 99400
8. Influence of captagon on spatial learning and memory at the behavioral level, KFU annual research grant, 2012-2013, 52000 SAR.
9. M. Zagaar, **I. A. Alhaider**, K. Alkadhi; Effect of chronic endurance exercise on spatial memory impairment in acutely sleep-deprived rats. Soc Neuroscience, 2010.
10. **I. A. Alhaider**, T. T. Tran, K. A. Alkadhi. Effects of chronic caffeine treatment on sleep deprivation-impaired late-LTP in area CA1. Soc Neuroscience, 2010.
11. **I. A. Alhaider**, T. T. Tran, A. M. Aleisa, K. H. Alzoubi, K. A. Alkadhi. Effect of caffeine on cognitive deficit in acutely sleep deprived rats: Electrophysiological and molecular evidence. Soc Neuroscience, 2009.
12. T. T. Tran, M. Srivareerat, **I. A. Alhaider**, K. A. Alkadhi. Chronic psychosocial stress accelerates the onset of cognitive impairment in an at-risk rat model of Alzheimer's disease: Molecular studies. Soc Neuroscience, 2009.
13. K. A. Alkadhi, K. H. Alzoubi, **I. A. Alhaider**, A. M. Aleisa. Streptozotocin-induced diabetes impairs ganglionic transmission and synaptic plasticity in the superior cervical ganglion. Soc Neuroscience, 2009.
14. A. M. Aleisa, K. H. Alzoubi, **I. A. Alhaider**, M. Srivareerat, T. T. Tran, K. A. Alkadhi. Nicotine treatment reverses sleep deprivation-induced impairment of LTP in anesthetized rats. Soc Neuroscience, 2008.
15. **I. A. Alhaider**, A. M. Aleisa, T. T. Tran, M. Srivareerat, K. H. ALZOUBI, K. A. Alkadhi. Caffeine prevents the impairment of the spatial learning and memory induced by sleep deprivation. Soc Neuroscience, 2008.
16. T. T. Tran, M. Srivareerat, A. M. Aleisa, **I. A. Alhaider**, K. A. Alkadhi. Stress impairs long-term potentiation in the dentate gyrus in an early-stage Alzheimer's disease rat model. Soc Neuroscience, 2008.
17. K. A. Alkadhi, K. H. Alzoubi, **I. A. Alhaider**, A. M. Aleisa, M. Srivareerat. Chronic i.c.v infusion of β -amyloid impairs ganglionic transmission and synaptic plasticity in the superior cervical ganglion. Soc Neuroscience, 2008.

SEMINARS:

*Antidepressants,
Sultan Bin Abdulaziz
Humanitarian City,
Riyadh. 2003.*

*Role of Polyethylene
Glycol 3350 in Gas-
trointestinal Tract,
Sultan Bin Abdulaziz
Humanitarian City,
Riyadh. 2003.*

*Chronic caffeine
treatment prevents
sleep deprivation-
induced impairment
of cognitive function
and synaptic plastic-
ity. University of
Houston, Houston,
USA. 2010.*



*Room Location : College of Clinical Pharmacy,
Ph.: 5817175 Extn.: 1783
IP phone :03-5899897*

Instruments Handled :
*High Performance Liquid Chromatography (HPLC)
Hot stage.
Electronic microscope.
Differential Scanning Calorimetry (DSC)*

Conference Attended

- ◆ *Malaysian Pharmaceutical Society- Pharmacy Scientific Conference, held during 21st – 23rd October 2011*
- ◆ *46th ASHP Midyear Clinical meeting & exhibition at New Orleans Ernest N Morial Convention Center, New Orleans, USA*
- ◆ *ACS conference, San Diego, USA from 25th March to 29th 2012*
- ◆ *ASHP 2012, summer meeting and exhibition, Baltimore, MD on June 9th to 13th*
- ◆ *AAPS (The American Association of Pharmaceutical Scientist), Annual Meeting and Exposition was held from October 14th to 18th, 2012 in McCormick Place, Chicago.*

1. Dr. Bandar E. Aldhubaib

B. Ph ., King Saud Univ, KSA, & Ph. D., University of Arizona , USA

ASSISTANT PROFESSOR, PHARMACEUTICAL SCIENCES

TEACHING EXPERIENCE: Involved in teaching undergraduate students mainly Pharmaceutics, Biopharmaceutics and clinical pharmacokinetics..

RESEARCH INTERESTS:

1. Analysis of Pharmaceutical Compounds
2. Dissolution studies of some generic drugs.
3. Development of new analytical methods using HPLC

LIST OF PUBLICATIONS AND PRESENTATIONS:

1. Kumria R, Anroop B, **Al-Dhubiab BE**. Loratidine buccal films for allergic rhinitis: development and evaluation. *Drug Dev.Ind.Pharm.*40: 625-631, 2014.
2. Anroop B, Singh K, **Al-Dhubiab BE**, Attimarad M, Harsha S, Alhaider IA, Skin uptake and clearance of ciclopirox following topical application, *Bio-pharm. Drug Dispos.* 34: 540-549, 2013.
3. Anroop B, Jacob S, **Al-Dhubiab BE**, Attimarad MV, Harsha S, Basic considerations in the dermatokinetics of topical formulations, *Brazilian J. Pharm. Sci.* 49,423-434, 2013.
4. **Bandar E Al-Dhubiab**. Formulation and in vitro evaluation of gelatin nanospheres for the oral delivery of selegiline. *Curr. NanoSci.* 2013, 9: 21-25. (
5. Anroop B Nair, Rachna Kumria, Sree Harsha S, Mahesh V Attimarad, **Bandar E Al-Dhubiab**, Ibrahim A Alhaider. In vitro techniques to evaluate buccal films. *J Control Release.* 2013, 166: 10-21. (2012 Impact factor 7.6).
6. Sree Harsha, Mahesh V Attimarad, Tanveer A Khan, Anroop B Nair, **Bandar E. Al-Dhubiab**, Sighatullah Sangi and Arshia Shariff, Design and formulation of mucoadhesive microspheres of sitagliptin, *J. Microencapsul.* 2013, 30: 257-264. (2012 Impact factor 1.5).
7. Anroop B Nair, Kishan Singh, Sree Harsha, **Bandar E Al-Dhubiab**, A comprehensive study to evaluate the effect of constant low voltage iontophoresis on transungual delivery, *Drug Dev. Ind. Pharm.* 2013, 39: 807-815.
8. Satarupa Acharjee, Bijaya Ghosh, **Bandar E Al-Dhubiab**, Anroop B Nair, Understanding type 1 diabetes: etiology and models. *Can. J. Diabetes*, 37, 269-276, 2013. (2012 Impact factor 0.5).

9. Anroop B Nair, Ashish Kaushik, Mahesh Attimarad, **Bandar E Al-Dhubiab**, Enhanced oral bioavailability of calcium using bovine serum albumin microspheres, Drug Deliv. 2012, 19: 277-85. (
10. Mahesh V Attimarad, **Bandar E Al-Dhubiab**, Ibrahim A Alhaider, Anroop B Nair, Sree Harsha N, Mueen Ahmed K, Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry, 2012, Chem. Cent. J. 2012, 6:105.
11. Devendra Singh Chauhan, Sanjib Bhattacharya, **Bandar E Al-Dhubiab**, KK Mueen Ahmed, Comparative in vitro antioxidant evaluation of different extracts of Camellia sinensis leaves from different geographical locations, Pharmacog. Journal, 2012, 4, 44-46.
12. **Bandar E Al-Dhubiab**, Pharmaceutical applications and phytochemical profile of Cinnamomum burmannii, Pharmacog.Rev., 2012, 6:125 – 31.
13. **Bandar E Al-Dhubiab**, Development and evaluation of fast dissolving tablets of glimepiride. Zagazig J. Pharm. Sci. 2011, 20, 1-5.
14. **Bandar E. Al-Dhubiab**, Evaluation of olive oil ester-buffer system for the development of piroxicam micro-emulsion, Scientific Journal of King Faisal University (Basic and Applied Sciences) Vol.12 No.2 1432 (2011) 191-199.

Research Grants (DSR, King Faisal University)

1. FDevelopment of transdermal delivery system of vildagliptin and its comparison with oral therapy, 2014, 82400 SAR
2. Formulation and Evaluation of Vildagliptin Dual Drug Release microsphere, 2014, 54900 SAR
3. Development of Nano based drug delivery system for the buccal delivery of acyclovir, 2014, 77400
4. Simultaneous determination of amlodipine, hydrochlorothiazide and several sartans by Liquid Chromatography and /or Capillary Electrophoresis in formulations and plasma, 2014 75400 SAR
5. Formulation and evaluation of buccal films impregnated with selegiline loaded nanospheres, 2013, 68400SAR
6. Preparation and Evaluation of Spraydried Oral Mucoadhesive Noveon Aa-1 Polycarbophil Nanoparticles Containing Anti-Diabetic Drug, 2013, 74400 SAR
7. Development of a novel non invasive technique for therapeutic drug monitoring in epilepsy patients, 2013, 65900 SAR
8. Development and validation of Stability indicating Chromatographic method for simultaneous determination of Statin and Gliptin , 2013, 57900SAR
9. “Mucoadhesive microspheres containing a new antidiabetic drug: Preparation and in-vitro characterization” – 2012., SAR 87400

Presentation & Posters:

An LC-MS method for simultaneous determination of ofloxacin and cefixime in human plasma: MSACL, San Diego, CA, USA, 2013 (Accepted).

In vitro and in vivo evaluation of a novel carrier for calcium delivery, AAPS, 2012.

Therapeutic drug monitoring of carbamazepine by reverse iontophoresis, AAPS, 2012.

Skin permeation and dermatokinetics of ciclopirox olamine, AAPS, USA, 2012.

Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry in presence of tablet excipients, AAPS, USA, 2012.

Using NMP as a model for the solubility of the drugs [American Association of Pharmaceutical Society, AAPS], 2009.

Eutectic formation using PEG 400, [AAPS], 2009.

Eutectic formation using disposable syringe method, [AAPS], 2009 Los Angeles CA.

Effect of the pH on the solubilization of the drugs in the Micelle, [AAPS], 2008.

Solubility of the sparingly soluble drugs using PVP, [AAPS], 2007. San Diego CA



Room Location : College of Clinical Pharmacy,

Ph.: 5817175 Extn.: 1783/234

Email : shakrawi@kfu.edu.sa

- ◆ *Supervised more than 17 Post-Graduate students*
- ◆ *Head of the Bioequivalence Studies Unit, Principal Investigator for the Bioequivalence Studies, and Head of the Analytical Laboratory,*
- ◆ *Conducted more than 18 bioequivalence studies*

A. DEPARTMENT OF PHARMACEUTICAL SCIENCES

2. Dr.Sabah H. Akrawi

B.Sc, University of Baghdad, Iraq , & Ph. D., University of Kentucky , USA

ASSOCIATE PROFESSOR, PHARMACEUTICAL SCIENCES

TEACHING EXPERIENCE: Teaching under- graduate and post-graduate courses in Biopharmaceutic, Pharmacokinetics, Clinical Pharmacokinetics, and Physical Pharmacy over 20 years.

RESEARCH INTERESTS: Research activities included the determination and evaluation of drug concentration to detect its relationship of the pharmacokinetic parameters to the therapeutic effects and pharmaceutical dosage form. Moreover, performed and validated drug analytical method.

For instance; the evaluation and interpretation of the pharmacokinetic parameters of drugs (AUC, Clearance, $T_{1/2}$, K_e , K_m , C_{max} , T_{max} , V_d ...etc.); Pharmacokinetic/ Pharmacodynamic relationship. Drugs under investigations required studies to determine their disposition, stereoselective disposition, through renal or metabolic route of elimination in addition to its absorption and distribution in various body tissues; dose and dosing rate can be specified after treating the data with statistical programs to determine if it is significant or not; effect of Drug–Drug and Drug–Food interaction on the disposition and its effect on pharmacokinetic parameters; bioavailability and bioequivalence studies include three parts the clinical, analytical and data statistical analysis; using micro sampling technique and the chronic intra hepatic infusion of drugs in unrestrained animals to predict the drug disposition and concentration profile.

PUBLICATIONS:

1. Solid State NMR and Bioequivalence Comparison of the Pharmacokinetic Parameters of Two Formulations of Clindamycin” Zeyad A. Al-Talla1, Sabah H. Akrawi and Abdul-Hamid Emwas , J. Clinical Therapeutics, Vol. 49-No. 7/2011.
2. Bioequivalence assessment of two formulations of ibuprofen, Zeyad A. Al-Talla1, Sabah H. Akrawi, Luke T. Tolley, Salim H. Sioud, and Abdul-Hamid Emwas, J. Drug Design, Development and Therapy, 2011:5 427-433.
3. “A two way cross over bioequivalence study for two formulations (100 mg suppository) containing indomethacin and treatment monitoring” Sabah H. Akrawi* and Haidar F. Hadi. J. Appl. Sci., Vol. 7, No. 1, 38-47, 2005
4. “Bioequivalence Assessment of Doloraz[®] 100 mg Suspensions in Healthy Human Volunteers”. Sabah H. Akrawi, Ziad Al-Talla’, Sabah D. Salim and Loay Rashan. Iraqi Journal of Pharmacy, Vol 3. No. 1, 2003.

5. "Bioequivalence study of indomethacin test product (25 mg capsule)" Haidar F. Hadi. Sabah H. Akrawi and Salim A. Hamadi, Iraqi J. Pharm Sci, vol 13. 2002.
6. "Bioequivalence Assessment of Clindox[®] 150 mg Capsules in Healthy Human Volunteers". Sabah H. Akrawi, Ziad Al-Talla', Sabah D. Salim and Loay Rashan. Iraqi Journal of Pharmacy, Vol 3. No. 1, 2003.
7. 'Bioequivalence Assessment of Hypoten[®] 100 mg Tablets in Healthy Human Volunteers and Treatment Monitoring'. Sabah H. Akrawi, Iraqi Journal of Pharmacy, Vol 3. No. 1, 2003.
8. "Possible drug interaction between carbamazepine and tea components in epileptic patients", Muna J. Hadi, Sabah Akrawi and Sabah Al-Dabagh, Iraqi J. Pharm. Sci. Vol, (11) 2000.
9. "Bioavailability – Bioequivalency study of a formulation containing Cephalexin", Sabah H. Akrawi, The Iraqi Journal of Community Medicine, 2000.
10. "Potentiation of Gentamicin Induced Nephrotoxicity by Molsidomine in Rats". Sabah H. Akrawi and Marwan S.M. Al-Nimer, Iraqi J. Pharm. Sci. Vol, (9) 1998.
11. "Effect of L-carnitine on lipid peroxidation in gentamicin induced nephrotoxicity in rats". Marwan S.M. Al-Nimer, Sabah H. Akrawi, Suhad Kh, Al-Jubory. Iraqi J. Pharm. Sci. Vol. 8(1) 1997.
12. "Prescribing errors in selected Hospital and Private Clinics in Baghdad". Sabah H. Akrawi. Iraqi J. Pharm. Sci. Vol. 7 1996.
13. "The evaluation of renoprotective effect of L-carnitine against gentamicin nephrotoxicity". Sabah H. Akrawi. Iraqi J. Pharm. Sci. Vol. 7 1996.
14. "Changes in brain glucose and glycogen in epileptic mice", S.P. Jazrawi and S.H. Akrawi, Al-Buhooth Al Tachaniya, Vol 9 ,N0 33, 1996.
15. Nosocomial infections in three of Erbl's Hospitals". Kawa F. Dizayee and Sabah H. Akrawi. Iraqi J. Pharm. Sci. Vol. 6(1) 1995.
16. Effect of molsidomine on trace metals in gentamicin induced nephrotoxicity in rats". Sabah H. Akrawi, Faris S. Allah-Werdi and Marwan S.M. Al-Nimer, Iraqi J. Pharm. Sci. Vol. 6(1) 1995.
17. The effect of alphotocopherol on experimentally induced gentamicin nephrotoxicity in rats". Abdulla T.M. Al-Ani, Marwan S.M. Al-Nimer and Sabah H. Akrawi, Iraqi J. Pharm. Sci. Vol 5(1) 1994.

- ◆ *Conducting Chronic Intrahepatic & IV drug infusion in unrestrained animals.*
- ◆ *Conducting intranasal administration of drugs.*
- ◆ *Development and Validation of analytical methods for drugs using Micro Samples of blood.*
- ◆ *Design and Supervision of clinical studies.*
- ◆ *Design and Supervision of Disposition studies of drugs using Micro Samples.*
- ◆ *Drug Metabolism & its Stereoselective Disposition.*
- ◆ *Design and Supervision of Drug-Drug and Drug-Food interaction studies.*



*Room Location : College of
Clinical Pharmacy,
Room No : 1004
Ph.: 03-5899912
Email :
sharsha@kfu.edu.sa*

Contribution in Book:

*Chapter 8: Targeted Drug
Delivery system,
Chapter 11: Microspheres
Textbook of Industrial
Pharmacy, Publisher-
Orient Longman Private
Ltd. ISBN 13: 978-81-250-
3309-7, Year 2008.*

Reviewer :

*The Journal of Microen-
capsulation
The International Journal
of Pharmaceutics
The Journal of Pharma-
ceutical Innovation (JPI)
The Archives of Pharma-
ceutical Sciences and Re-
search (APSR)
Journal of Medicinal
Plants Research*

3. Dr. Sree Harsha

M.Pharm & Ph. D, Rajiv Gandhi Uni. Health Sciences, India

ASSISTANT PROFESSOR, PHARMACEUTICS

TEACHING EXPERIENCE : 13 years of experience in teaching pharmaceu-
tics, pharmacokinetics & biopharmaceutics and physical pharmacy.

RESEARCH INTEREST :

Dr. Sree Harsha's research interests are in the fields of Targeted Drug Delivery
and Topical Drug Delivery systems. His research laboratory is currently exploring
in the following areas:

1. Development of nanoparticle mucoadhesive formulation for anti-diabetic
drugs.
2. Formulation of targeted drug delivery for lungs.
3. Development of topical treatment for cutaneous leishmaniasis from fruit of
Date Palm (Phoenix dactylifera).

LIST OF PUBLICATIONS:

1. **Harsha, S.**; Al-Khars, M.; Al-Hassan, M et al. Pharmacokinetics and tissue
distribution of spray-dried carboplatin microspheres: lung targeting via intrave-
nous route. Arch Pharm Res 2014, 37, 352-60.
2. Al-Dhubiab, BE.; Nair, AB.; Kumria, R.; Attimarad, M.; **Harsha, S.** Develop-
ment and evaluation of buccal films impregnated with selegiline-loaded nano-
spheres. Drug Deliv 2014, 1-9.
3. Nair, AB.; Singh, K.; Shinu, P.; **Harsha, S.**; Al-Dhubiab, BE. A comprehensive
study to evaluate the effect of constant low voltage iontophoresis on transun-
gual delivery. Drug Dev Ind Pharm 2013, 39, 807-15.
4. Nair, AB.; Singh, K.; Al-Dhubiab, BE.; Attimarad, M.; **Harsha, S.**; Alhaider, IA.
Skin uptake and clearance of ciclopirox following topical application. Bio-
pharm Drug Dispos 2013, 34, 540-9.
5. Nair, AB.; Kumria, R.; **Harsha, S.**; Attimarad, M.; Al-Dhubiab, BE.; Alhaider,
IA. In vitro techniques to evaluate buccal films. J Control Release 2013, 166,
10-21.
6. Nair, AB.; Attimarad, M.; Al-Dhubiab, BE.; Wadhwa, J.; **Harsha, S.**; Ahmed,
M. Enhanced oral bioavailability of acyclovir by inclusion complex using hy-
droxypropyl- β -cyclodextrin. Drug Deliv 2013.

7. Nair, A.; Jacob, S.; Al-Dhubiab, B.; Attimarad, M.; **Harsha, S.** Basic considerations in the dermatokinetics of topical formulations. *Brazilian Journal of Pharmaceutical Sciences* 2013, 49, 423-434.
8. Mansour, SW.; Sangi, S.; **Harsha, S.**; Khaleel, MA.; Ibrahim, ARN. Sensibility of male rats fertility against olive oil, Nigella sativa oil and pomegranate extract. *Asian Pac J Trop Biomed* 2013, 3, 563-8.
9. **Harsha, S.**; E Aldhubiab, B.; Abdulrahman Alhaider, I.; Attimarad, M.; Nair, A. Carbopol 934-P Loaded with Vildagliptin for Diabetic Delivery: In Vitro and In Vivo Evaluation of Nanoparticles. *Current Nanoscience* 2013, 9, 642-647.
10. **Harsha, S.**; Attimard, M.; Khan, TA et al. Design and formulation of mucoadhesive microspheres of sitagliptin. *J Microencapsul* 2013, 30, 257-64.
11. **Harsha, S.** Pharmaceutical suspension containing both immediate/ sustained-release amoxicillin-loaded gelatin nanoparticles: preparation and in vitro characterization. *Drug Des Devel Ther* 2013, 7, 1027-33.
12. Baby, B.; **Harsha, S.**; Jayaveera, K.; Abraham, A. Formulation and Evaluation of a Robust Drug Delivery System by Using Levofloxacin-Chitosan/ Hydroxypropyl β -Cyclodextrin Nanoparticles. *Drug Delivery Letters* 2013, 3, 12-17.
13. Sangi, S.; Turki, MA.; Otaibi, GA.; Hazoom, MAK.; **Harsha, S.** Analysis and evaluation of prescriptions in Al-Ahsa (Saudi Arabia). 2012.
14. Kathiravan, G.; Sureban, SM.; **Harsha, S.**; Bhuvaneshwari, V.; Kramony, E. Isolation of anticancer drug TAXOL from *Pestalotiopsis breviseta* with apoptosis and B-Cell lymphoma protein docking studies. *J Basic Clin Pharm* 2012, 4, 14-9.
15. Ghosh, B.; Iyer, D.; Nair, AB.; Sree, HN. Prospects of iontophoresis in cardiovascular drug delivery. *J Basic Clin Pharm* 2012, 4, 25-30.
16. BABY, B.; **Harsha, S.**; JAYAVEERA, K.; ABRAHAM, A. Determination of Process Variables Using Factorial Design on Entrapment Efficiency of Levofloxacin Nanoparticles. *Journal of Pharmacy and Chemistry* 2012, 6, 3-7.
17. Baby, B.; Harsha, NS.; Jayaveera, KN.; Abraham, A. Formulation and Evaluation of Levofloxacin Nanoparticles by Ionic Gelation Method. *Research & Reviews: Journal Of Pharmacy And Pharmaceutical Sciences* 2012, 1.
18. Attimarad, M.; Al-Dhubiab, BE.; Alhaider, IA.; Nair, AB.; **Harsha, S.**; K, MA. Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry. *Chem Cent J* 2012, 6, 105.
19. Sangi, S.; **Harsha, S.**; Asif, AH. Formulation and evaluation of mucoadhesive Nigella Sativa and Olive oils for vaginal infections. *Der Pharmacia Lettre* 2011, 3, 39-46.

KFU Students Grants:

◆ **Sree Harsha, Mohammed Al-Hassan, Mohammed Al-Khars, "Preparation and evaluation of microspheres for lung targeting" Deanship of Scientific Research, King Faisal University, Saudi Arabia, SAR 10, 000/- 2012 – 2013 – Completed**

◆ **Sree Harsha, Anroop Nair, Sulaiman Mohammed Al-Mohaish and Ahmaed Saad Al-Naeem, "Buccal wafers of oral delivery of chloral hydrate Preparation and In Vitro studies" Deanship of Scientific Research, King Faisal University, Saudi Arabia, SAR 7, 500/- - 2011 – 2012 – Completed**

◆ **Sree Harsha, Tanveer Ahmad Khan, Maithm Mohammed Almuslem, Ahmed Adel Alamer "Preparation and Evaluation of Theophylline Microsphere for Targeting to Lungs" Deanship of Scientific Research, King Faisal University, Saudi Arabia, SAR 5, 000/- - 2010 – 2011 – Completed**

◆ **Sree Harsha, Rashed, Abdullah "Non-attendance of dental outpatients in King Abdulaziz military air base hospital". Deanship of Scientific Research, King Faisal University, Saudi Arabia, SAR 5, 000/- 2009 – 2010 – Completed**

DSR Projects

◆ *Mahesh Attimarad, Anroop Nair, Dr. Bandar Essa Aldhubai-ah, Sree Harsha, "Simultaneous determination of amlodipine, hydrochlorothiazide and several sartans by Liquid Chromatography and / or Capillary Electrophoresis in formulations and plasma" Proposal grant No. 150190. SAR 75400/- 2014 – 2015 –*

◆ *"Development of Nano based drug delivery system for the buccal delivery of acyclovir" Proposal grant No. 140103. SAR 77, 400/- 2014 – 2015*

◆ *"Development of transdermal delivery system of vildagliptin and its comparison with oral therapy" Proposal grant No. 140069. SAR 82,400/- 2014 – 2015*

◆ *"Design and Evaluation: Vildagliptin–Metformin Nanoparticle Combination" Proposal grant No. 150196. 55, 900/- 2014 – 2015 Arshia Shariff,*

◆ *"Formulation and Evaluation of Vildagliptin Dual Drug Release microsphere" Proposal grant No. 150207. SAR 54, 900/- 2014 – 2015 – Accepted*

3. Dr. Sree Harsha

20. Attimarad, M.; Ahmed, KKM.; Aldhubaib, BE.; **Harsha, S.** High-performance thin layer chromatography: A powerful analytical technique in pharmaceutical drug discovery. *Pharm Methods* 2011, 2, 71-5.
21. Usha GK.; R, B.; **Harsha, S.**; Rajarajan, S.; Ramesh, K. A Review of Pharmacoepidemiological Methods: Intensive hospital monitoring and medical record linkage. *Pharmacology online journal* 2010, 1, 1145 – 1154.
22. Shanth, K.; Shobha, R.; **Harsha, S.** High-Performance Liquid Chromatographic Determination of Plasma Theophylline Levels in the Presence of Caffeine and Dietary Xanthine Metabolites. *Archives of Pharmacol Research* 2010, 2, 274 – 282.
23. Mahalingan, K.; Rajarajan, S.; Baby, B.; **Harsha, S.** Formulation and Evaluation of Clarithromycin Extended Release Tablets. *Journal of Pharmaceutical Sciences and Research* 2009, 1, 97-100.
24. **Harsha, S.**; Rajarajan, S.; Chandramouli, R.; Srinivas, S.; Shobha, R. Preparation and Evaluation of Gentamicin Biodegradable Polymeric microspheres. *Archives of Pharmaceutical Science and Research* 2009, 2, 14-19.
25. **Harsha, S.**; R, C.; Rani, S. Ofloxacin targeting to lungs by way of microspheres. *Int J Pharm* 2009, 380, 127-32.
26. **Harsha, S.**; Nagashekhar, M.; N, SH. Carboplatin Microspheres Targeting to Lungs: Preparation and Evaluation. *Malaysian Journal of Pharmacy* 2009, 1.
27. **Harsha, S.**; Kumar, GS.; Al-Wesali, MS.; Sahibzada, TR.; Ibrahim, FAS. Exploring the Anti-leishmaniasis activity of Phoenix dactylifera (Date Palm). *Pharmacology online journal* 2009, 3, 791-799.
28. **Harsha, S.**; Al-Wesali, MS. Preparation and evaluation of nanospheres for lung targeting. *International Journal of Nano and Biomaterials* 2009, 2, 143-146.
29. **Harsha, S.**; Rani, RHS. Drug targeting to lungs by way of microspheres. *Arch Pharm Res* 2006, 29, 598-604.
30. Shymala, B.; **Harsha, S.** Hydrodynamic Oral Floating Controlled Delivery of Diltiazem Hydrochloride. *Eastern Pharmacist* 2001, 44, 105-108.
31. Bhaskaran, S.; **Harsha, S.** Effect Of Permeation Enhancer And Lontophoresis On Permeation Of Atenolol From Transdermal Gels, 2000.

3. Dr. Sree Harsha

Presentations

1. Mohammed Al-Khars and **Sree Harsha** received best poster award "Salbutamol microspheres targeting to lung: preparation and in vitro release" under Pharmacy Student Thematic Poster Awards in DUPHAT(Dubai International Pharmaceuticals & Technologies Conference & Exhibition) held in Dubai during March 10 -12, 2014.
2. Speaker invitation for "3rd International Conference on Nanotek and Expo" on December 2-4, 2013 held at Hampton Inn Las Vegas, USA hosted by OMICS Group Conferences. Presented topic on "Pharmaceutical suspension containing both immediate/sustained release omeprazole loaded carbopol nanospheres: preparation and in vitro characterization".
3. A. B. Nair, B. E. Al-Dhubiab, M. Attimarad, **S. Harsha**, I. A. Alhaider. Skin Permeation and Dermatokinetics of Ciclopirox Olamine, *AAPS Annual Meeting and Exposition*, McCormick Place, Chicago. **2012**.
4. M. Attimarad, A. B. Nair, B. E. Al-Dhubiab, **S. Harsha** LC-MS method for simultaneous determination of ofloxacin and cefixime in human plasma: Mass Spectrometry Applications in Clinical Laboratories, San Diego, CA, USA, 2013
5. M. Attimarad, A. B. Nair, B. E. Al-Dhubiab, **S. Harsha** Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry. [American Association of Pharmaceutical Society, AAPS 2012]
6. A. B. Nair, B. E. Al-Dhubiab, M. Attimarad, **S. Harsha**, I. A. Alhaider "Therapeutic Drug Monitoring of Carbamazepine by Reverse Iontophoresis" *AAPS Annual Meeting and Exposition*, McCormick Place, Chicago **2012**.
7. A. B. Nair, B. E. Al-Dhubiab, M. Attimarad, **S. Harsha**, I. A. Alhaider, In Vitro and In Vivo Evaluation of a Novel Carrier for Calcium Delivery *AAPS Annual Meeting and Exposition*, McCormick Place, Chicago **2012**.
8. M. Attimarad, A. B. Nair, B. E. Al-Dhubiab, **S. Harsha**, Simultaneous Determination of Moxifloxacin and Cefixime by First and Ratio First Derivative Ultraviolet Spectrophotometry in Presence of Tablet Excipients, I. A. Alhaider, *AAPS Annual Meeting and Exposition*, McCormick Place, Chicago **2012**.
9. **Sree Harsha**, Chandra mouli, Rajarajan, Srinivasan, Shobha rani, and Mohamed Al-Wasali "The effect of process parameter on preparation of biodegradable polymeric nanospheres" *International Conference for Nanotechnology and Advanced Materials*, University of Bahrain, BAHRAIN. Page 102, **2009**

Skills

1. Proficient in all leading word and numerical processing packages Corel Draw
2. Data analysis and statistics like Sigma Plot and Design of Experiments.

DSR Projects

- ◆ **Sree Harsha, Mahesh Attimarad, Bandar Essa Aldhubiah, Anroop Nair** Annual competitive research grant of SAR 74400 for the project "Preparation and evaluation of spraydried oral mucoadhesive Noveon AA-1 polycarboxophil nanoparticles containing anti-diabetic" Proposal grant No. 140131. SAR 74, 400/- **2012 – 2013 – Completed**
- ◆ Annual "Development of a novel noninvasive technique for therapeutic drug monitoring in epilepsy patients" Proposal grant No. 140069. SAR 65, 900/- **2012 – 2013 – Completed**
- ◆ "Formulation and evaluation of buccal films impregnated with seligiline loaded nanospheres" Proposal grant No. 140103. SAR 68, 400/- **2012 – 2013 – Completed**

◆ KFU GRANTS:

◆ Mahesh Attimarad, S. Ramachandra Setty, **Sree Harsha** "Simultaneous Estimation of Flavoxate HCl and Ofloxacin by High Performance Liquid Chromatography" SAR 71,400/- **2009 – 2010** -

◆ "Mucoadhesive microspheres containing a new anti-diabetic drug: Preparation and in-vitro characterization" Proposal grant No. 130012. SAR 87,400/- **2011 – 2012** -

◆ "Validated Liquid Chromatographic method Development for Simultaneous estimation of Metformin and Gliptins" Proposal grant No. 130010. SAR 63,100/- **2011 – 2012**

◆ "Self Emulsifying Drug Delivery Systems (SEDDS) for Oral Delivery of Lipophilic Anti-Muscarinic Drugs" Proposal grant No. 130014. SAR 66,665/- **2011 – 2012** – In Process

◆ "Therapeutic effects of some herbal extracts on male infertility in experimental animals" SAR 54,400/- **2011 – 2012** – Completed

◆ Mahesh Attimarad, Ahmaed O. Alnajjar, **Sree Harsha** "Simultaneous Estimation of Metformin And Miglitol By High Performance Liquid Chromatography", *Deanship of Scientific Research*, King Faisal University, Saudi Arabia SAR 92,400/- **2010 – 2011** - Completed

3. Dr. Sree Harsha

Presentations :

10. **Sree Harsha**, Chandra mouli, Rajarajan, Srinivasan, Shobha rani, and Mohamed Al-Wasali "Preparation and evaluation of Nanospheres: Liver Targeting" *International Conference for Nanotechnology and Advanced Materials*, University of Bahrain, Bahrain. Page 103, **2009**
11. Nagashekhar M, **Sree Harsha**, Shivaprasad H.N "Determination of Machiavellianism and its impact on sales performance amongst pharmaceutical sales representatives; a questionnaire survey". *4th Malaysian Pharmaceutical Society Pharmacy Scientific Conference*, Universiti Sains Malaysia, Penang, **2009**
12. Nagashekhar M, **Sree Harsha**, Shivaprasad H.N "Carboplatin Microspheres Targeting to Lungs: Preparation and Evaluation", *4th Malaysian Pharmaceutical Society Pharmacy Scientific Conference*, Universiti Sains Malaysia, Penang, Malaysia. **2009**
13. **Sree Harsha** and Mohamed Al-Wasali, Preparation and evaluation of nanospheres for lung targeting, *ICON 008*, Jeddah, Saudi Arabia, **2008**.
14. **Sree Harsha** and Shobha Rani "Drug targeting to lungs by way of microspheres" *International Congress of Indian Pharmacy Graduates*. Tamil Nadu, India, **2003**.
15. **Sree Harsha** and Shobha Rani "Quality Control analysis of Personal Care Products, *Indian Cosmetics Technologist Association*", Belgaum, India, **2004**.
16. **Sree Harsha** and Shobha Rani "Microspheres targeting to lungs", *Association of Pharmaceutical Teachers of India (APTI)*, Goa, India, **2003**.
17. **Sree Harsha** and Shobha Rani "Use of Microsoft excels in Pharmacy field. 54th *Indian Pharmaceutical Congress*" Pune, India, **2002**.
18. **Sree Harsha** and Shobha Rani "Drug targeting to lungs" 54th *Indian Pharmaceutical Congress*, Pune, India, **2002**.
19. **Sree Harsha** and Shobha Rani "Formulation and evaluation of microspheres of gentamicin sulphate" *International Pharmaceutical Federation (F.I.P)* Germany, **2001**.
20. **Sree Harsha** and Shobha Rani "Preparation and evaluation of microspheres of gentamicin sulphate". 53rd *Indian Pharmaceutical Congress*, Delhi, India, **2001**.
21. **Sree Harsha** and Shobha Rani "Preparation of self-cross linked gelatin microspheres". 52nd *Indian Pharmaceutical Congress*. Hyderabad, India, **2000**.
22. **Sree Harsha** and Shobha Rani "Gelatin as a hydrogel for controlled release" 51st *Indian Pharmaceutical Congress*, Indore, India, **1999**.

4. Dr. Mahesh Attimarad

B.Pharm Gulbarga University, M.Pharm; Bangalore Uni, Ph.D. Rajiv Gandhi Uni. Health Sciences, India

ASSISTANT PROFESSOR, PHARMACEUTICAL & ANALYTICAL CHEMISTRY

TEACHING EXPERIENCE : 15 years of experience in teaching pharmaceutical chemistry, medicinal chemistry and analytical chemistry.

RESEARCH INTEREST :

1. Development of new analytical methods for drug molecules
2. Microwave assisted synthesis of organic compounds.
3. In-vitro antioxidant screening.
4. Screening for anti-inflammatory and analgesic activities.
5. Bioavailability studies in rodents.

LIST OF PUBLICATIONS:

1. **Mahesh Attimarad**, Sree Harsha Nagaraja, Bandar E. Aldhubaib, Ahmed Al-Najjar, Development of a Rapid RP-HPLC Method for Simultaneous Determination of Metformin and Vildagliptin in Formulation and Human Plasma, *Journal of Young Pharmacists*, 2014; 6(4):40-46
2. **Mahesh Attimarad**, Sree Harsha Nagaraja, Bandar E. Aldhubaib, Anroop B. Nair, Venugopala K. N. Simultaneous Determination of Metformin and Three Gliptins in Pharmaceutical Formulations Using RP HPLC: Application to Stability Studies on Linagliptin Tablet Formulation, *Indian J Pharma Edu. Res*, 48,(4), 2014
3. **Mahesh Attimarad** and Ahmed O. Alnajjar: A conventional HPLC-MS method for the simultaneous determination of Ofloxacin and Cefixime in plasma: Development and validation, *J. Basic Clin Pharma*. 2013, 4, 36-41.
4. Ahmed O. Alnajjar, Abubakr M. Idris, **Mahesh V. Attimarad**, Adnan M. Aldughhaish and Rafea E.E. Elgorashe, Capillary Electrophoresis Assay Method for Metoprolol and Hydrochlorothiazide in their Combined Dosage Form with Multivariate Optimization, *Journal of Chromatographic Science*, 2012;00:1-6. (2011 Impact factor 1.07).
5. **M. Attimarad**. Simultaneous Determination of Ofloxacin and Flavoxate Hydrochloride by First and Ratio First Derivative UV Spectrophotometry, *Journal of the Iranian Chemical Society*, 2012, 9:551-557 (DOI: 10.1007/s13738-012-0068-5) (2011 Impact factor 1.65).
6. Mahesh V Attimarad, Bander E Al-Dhubiab, Ibrahim A Alhaider, Anroop B Nair and Sree Harsha N, Mueen Ahmed K, Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry, 2012, 6:105, *Chemistry Central Journal* . (Impact Factor 3.28)
7. Sree Harsha, Mahesh Attimarad, Tanveer A. Khan, Anroop B. Nair, Bandar E. Al-Dhubiab, Sigatullah Sangi and Arshia Shariff, Design and formulation of mucoadhesive microspheres of sitagliptin, *Journal of Microencapsulation*, Nov 12th, 2012 (Impact factor 1.5).



*Room Location : College of
Clinical Pharmacy,
Room No : 1004
Ph.: 035899601
Email : mattimarad
@kfu.edu.sa
mattimarad@gmail.com*

Instruments handled :

*LC-MS
GC-MS
HPLC—Shimadzu.
CHN elemental analyzer
FT IR - Shimadzu and
Perkin Elmer.
UV Visible Spectrophotometer—Shimadzu and
Elico.
Spectrofluorophotometer
Flash Chromatography.*

KFU DSR GRANTS:

- ◆ *Annual competitive research grant from King Faisal University, Al-Ahsa, Saudi Arabia sanctioned SAR 87400 for the title "Mucoadhesive microspheres containing a new antidiabetic drug: Preparation and in-vitro characterization" Proposal grant No. 130012. PI - Sree Harsha, CO-PI Mahesh Attimarad, Bandar Essa Aldhubiah. In Process*
- ◆ *Research grant of SAR 63100 for proposal title "Validated Liquid Chromatographic method Development for Simultaneous estimation of Metformin and Gliptins" Dr. Mahesh Attimarad, CO-PI Sree Harsha, Ahmed Omer Alnajjar Bandar Essa Aldhubiah from King Faisal University, Al-Ahsa, Saudi Arabia. Research Grant No. 130010, In Process*
- ◆ *A competitive annual grant of SAR 66,665/- "Self Emulsifying Drug Delivery Systems (SEDDS) for Oral Delivery of Lipophilic Anti-Muscarinic Drugs" 2012 – 2012, Grant Number: 130014, PI- Dr. Arshia Shariff, CO-PI Dr. Sree Harsha, Bandar Essa Aldhubiah from King Faisal University, Al-Ahsa,*
- ◆ *Annual commutative research grant of SAR 54400 for the project "Therapeutic effects of some herbal extracts on male infertility in experimental animals" Dr. Sibghatullah Muhammad Sangi, Salib Mansour Sherif, Hafex Gagab Madkor, Sree Harsha from King Faisal University, Al-Ahsa, In Process.*

LIST OF PUBLICATIONS:**4. Dr. Mahesh Attimarad**

8. Mahesh Attimarad, Sree Harsha N, Ramachandra Setty S, Simultaneous Determination Of Ofloxacin And Flavoxate Hydrochloride In Human Plasma By RP HPLC, *Journal of Liquid Chromatography and Related technologies* 2012, 35:6 (In press) (DOI: 10.1080/10826076.2011.608234) (2011 Impact factor 0.953).
9. Mahesh Attimarad, KK Mueen Ahmed, Bandar E Aldhubaib, Sree Harsha, High-performance thin layer chromatography: A powerful analytical technique in pharmaceutical drug discovery, *Pharmaceutical Methods*, 2011, Vol 2 (2), Pages 71-75.
10. Mahesh Attimarad. Simultaneous Determination of Ofloxacin and Flavoxate Hydrochloride by Absorption Ratio and Second Derivative UV Spectrophotometry in tablets, *J. Basic Clin Pharm*, 2011, 2 (1), 53-61.
11. Anroop B Nair, Rachna Gupta, Rachna Kumria, Shery Jacob and Mahesh Attimarad, Formulation and evaluation of enteric coated tablets of proton pump inhibitor, *J. Basic Clin Pharm*, 2010, 1(4), 215-221.
12. Mahesh Attimarad. Rapid RP HPLC Method For Quantitative Determination Of Lornoxicam In Tablets. *J. Basic Clin Pharm*, 2010, 1 (2), 115-118
13. Mahesh Attimarad, Liquid Chromatographic Determination of Flavoxate HCl In Pharmaceutical Formulation. *J. Young Pharmacist*, 2010, 2(3), 280-283.
14. Brajesh Porwal, B. S. Jayashree, and Mahesh Attimarad "Synthesis of Some New 3-Coumarinoyl Pyridinium and Quinolinium Bromides for their Antimicrobial Activity, *J. Basic and Clin Ph*, 2010, 1(1), 29-32,
15. Pradeep Kumar, Mahesh Attimarad and Sudha Mallapur "Development of New UV Spectrophotometric And Colorimetric Methods for the Estimation of Metadoxine in Tablets". *Asian Journal of Chemistry*, 2008, 20 (2), 1642-1644.
16. Mahesh Attimarad and S. Mohan "An Expeditious Synthesis of Methyl 5-(2-Amino 4-Arylthiazolyl) acetates using Microwave Irradiation" *Journal of the Indian Chemical Society*, 2006, 83(12), 1276-1279.
17. Mahesh Attimarad and S. Mohan, "Microwave assisted synthesis of ethyl 2,4, -di substituted thiazole-5 acetates for their antioxidant activity, *Asian Journal of Chemistry*, 2005, 17(2), 991-995.
18. Mahesh Attimarad and S. Mohan "Synthesis of Hydroxy benzothioophene/naphthalene carboxylic acids as potent NSAIDs." *Indian Journal of Heterocyclic Chemistry*, 2005, 14, 285-288.
19. Mahesh Attimarad, Vanith somasekhar and S. Mohan "Synthesis of 2-N-acyl amino arylthiazole-5-acetic acids/esters for their anti-inflammatory and analgesic activities" *Asian J. of Chemistry*, 2004, 16(1), 179-182.

20. V.N. Narasimha Murthy, M. K. Kokila, Puttaraju, N. C. Shivaprakash, M. V. Kulkarni and Mahesh "Structure of ethyl-[(2-amino-4-phenyl)-5-thiazolyl] acetate" Indian Journal of Chemistry, 2004, 13B, 1969-1972.
21. Mahesh Attimarad and G. Bagavant "Synthesis and Pharmacological evaluation of 4-Hydroxybenzothiofene-6-carboxylic acid Derivatives as NSAIDs", Asian Journal of Chemistry, 2004, 16 (2), 823-826.
22. Venugopala K. N., Jayashree B. S., and Mahesh Attimarad, "Synthesis and evaluation of some substituted 2-arylamino coumarinyl thiazoles as potential NSAIDs", Asian Journal of Chemistry, 2004, 16 (2), 872-876.
23. Mahesh Attimarad and S. Mohan "Synthesis of some 2-arylamino-4-phenylthiazole-5-acetic acids and esters as potent NSAIDs.", Indian Journal of Heterocyclic Chemistry, 2004, 13, 339-342.
24. Sandhyavali, S. Mohan, Rajesh Kale and Mahesh Attimarad "Synthesis of some 2-substituted amino 3(N-p-tolyl carboxamido)4,5-trimethylene thiophenes as potent NSAIDs" Indian Journal of Heterocyclic Chemistry, 2004, 13, 193-196.
25. Vanaja K., Hiremath RR, Jajoo HK, Attimarad M, G Bagavant, Gawade SP "Pharmacokinetics of aryl thiazole (NSAID) molecules and Ibuprofen in the rat" Online Journal of Pharmacokinetics, 2002, 1, 26-32.
26. Gopal Krishna Rao, Rajashekar, M Attimarad, "Synthesis and Antimicrobial activity of some 5-phenyl-4-substituted amino-3-mercapto-(4H) - 1,2,4-triazoles" Indian Journal of Pharmaceutical Sciences, 2000, 11, 475-477.
27. Mahesh Attimarad and G. Bagavant "Synthesis and Anti-inflammatory and analgesic activities of substituted 2-arylamino-4(4-chlorophenyl) thiazole-5-acetic acids/esters" Indian Journal of Pharmaceutical Sciences, 1999, 61, 152-155.
28. M Attimarad "Synthesis and Anti-inflammatory activity of 7-methyl-4-hydroxy benzothiofene-6-carboxylic acid and 7-methyl-4-(6-carboxy) benzothiofenoxyacetic acid" Indian Journal of Pharmaceutical Sciences., 1997, 59, 128-131.

Papers Accepted in International Conferences

1. An LC-MS method for simultaneous determination of ofloxacin and cefixime in human plasma: **MSACL, San Diego, CA, USA, 9-13 Feb.** 2013.
2. Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry in presence of tablet excipients, **AAPS, USA, Sept.** 2012.
3. Development of HPLC Analytical Method With Programmed Wavelength UV Detection for Simultaneous Determination of Paracetamol and Lornoxicam in Tablet" accepted for Oral presentation at **First United Arab Emirates Conference on Pure and Applied Chemistry, American University of Sharjah, UAE, 1-3 March,** 2011

DSR Projects

◆ Mahesh Attimarad, An-roop Nair Dr. Bandar Essa Aldhubiah, Sree Harsha, "Simultaneous determination of amlodipine, hydrochlorothiazide and several sartans by Liquid Chromatography and/or Capillary Electrophoresis in formulations and plasma" Proposal grant No. 150190. SAR 75400/- **2014 – 2015 –**

◆ "Development of Nano based drug delivery system for the buccal delivery of acyclovir" Proposal grant No. 140103. SAR 77, 400/- **2014 – 2015**

◆ "Development of transdermal delivery system of vildagliptin and its comparison with oral therapy" Proposal grant No. 140069. SAR 82,400/- **2014 – 2015**

◆ "Design and Evaluation: Vildagliptin–Metformin Nanoparticle Combination" Proposal grant No. 150196. SAR 55, 900/- **2014 – 2015** Arshia Shariff,

◆ "Formulation and Evaluation of Vildagliptin Dual Drug Release microsphere" Proposal grant No. 150207. SAR 54, 900/- **2014 – 2015 – Accepted**



*Room Location : College of
Clinical Pharmacy,
Ph.: 035895448
Email :
nkamil@kfu.edu.sa*

Special Skills .

- *Training of Trauma Psychology & Psychotherapy*
- *Gene isolation and detection*
- *Molecular Biology and the genetics in Humans: Urology and Health, Disease and the environment*
- *Hand's on training of Molecular Genetics*
- *Laparoscopic Techniques in Urology*
- *Orientation of Electron Microscope*

A DEPARTMENT OF PHARMACEUTICAL SCIENCES

5. Dr. Noor Kamil

B. Pharm M. Pil; Ph.D. Karachi University, Pakistan

ASSISTANT PROFESSOR, PHARMACOLOGY

TEACHING EXPERIENCE : 11 years of Pharmacology teaching to undergraduate (MBBS, BDS and Pharm D) and post graduate (MPhil and PhD) in medical dental and pharmacy colleges.

RESEARCH INTEREST :

1. Antineoplastic toxicity
2. Neurochemical and behavioral pharmacology

LIST OF PUBLICATIONS:

1. Kamil N, Imran ul H S. Hepatoprotective Effects of Calotropis procera in Isoniazid and Rifampicin Induced Hepatotoxicity. Phcog J, Vol 6, Issue 5, Sep-Oct 2014, pp 9-14.
2. Kamil N, Saba Kamil, Shahida P. Ahmed., et al. Toxic effects of multiple anticancer drugs on skin. Pak. J. Pharm. Sci., Vol.23, No.1, January 2010, pp.7-14
3. Kamil N, Shahida P. Ahmed, Saba Kamil., et al. Vincristine induced Dermal Toxicities. Pak J Pharmacol. Vol.25, No.1, January 2008, pp.53-60
4. Ashraf R, Ashraf I, Kamil N, et al. Does adding garlic (Allium Sativum) with antidiabetic therapy help achieving better glycemic control in type 2 diabetic patients. Med Today. 2007. December. 6(1)
5. Ashraf R, Ashraf I, N Kamil et al. Essential Hypertension. The Professional Medical Journal, Vol:14, No. 04 Oct, Nov, Dec 2007
6. Ali O, Haleem DJ, Saify ZS, Kamil N, Obaid R, Ahmed SW. Effects of tryptophan and valine administration on behavioral pharmacology of haloperidol. Pak J Pharm Sci. 2005 Apr;18(2):23-8. PMID: 16431394.
7. Haleem DJ, Batool F, Khan NH, Kamil N, Ali O, Saify ZS, Haleem MA. Differences in the effects of haloperidol and clozapine on brain serotonin and dopamine metabolism and on tests related to extrapyramidal functions in rats. Med Sci Monit. 2002 Sep;8(9):BR354-61. PMID: 12218936 Also presented in 3rd Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi –Pakistan.

8. Obaid R, Ali O, Saify ZS, Kamil N, Khan MH, Ahmed T, Ahmed SW. Pharmacokinetic differences of some generic tablet gliclazide 80 mg on Pakistani population. Pak J Pharm Sci. 2004 Jan;17(1):55-64. PMID: 16414587 Also presented in 3rd Biennial Conference on Pharmacology & Therapeutics. 2005.
9. Ali O, Haleem DJ, Obaid R, Kamil N, Haleem MA, Ahmed SW. Effect of co administration of haloperidol and large neutral amino acids (tryptophan and valine) on rats striatal dopamine, serotonin and their metabolism. Pak J Pharm Sci. 2003 Jan;16(1):13-25. PMID: 16414563 , Presented in 3rd Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi & International Pharmacy Conference & Exhibition, March 2003 Lahore- Pakistan.
10. Haleem D.J, Batool F, Kamil N., et al: Dopamine/Serotonin metabolite ratio and extrapyramidal effects of clozapine in rats. JCPSP, 10,2002 PP: 588-592
11. Obaid R, Ahmed T, Ali O, Kamil N, Ahmed SW. Method development for analysis of gliclazide in human plasma by using high-performance liquid chromatography. Pak J Pharm Sci. 2002 Jul;15(2):51-6. PMID: 16414877. Also presented in International Pharmacy Conference & Exhibition, March 2003

Other Literary Work

1. Article on 'The Compounding Pharmacist' in *Farmacia* 2001
2. Article on 'Role of Pharmacist as a primary health caregiver' in *The Pharmacist* issue 01/July 2003
3. Article on 'Pharmacogenomics', 'How to prepare a curriculum vitae', and 'what is compounding' in *Farmacia* 2003-2004
4. Waseem A, Siddiqui AO, Kamil N: Effects of large neutral amino acids (Tryptophan & Valine) on behavioral Pharmacology of Haloperidol. Presented in International Pharmacy Conference & Exhibition, 2003 Lahore- Pakistan.
5. Ali O, Haleem DJ, Obaid R, **Kamil N**, Haleem MA, Ahmed SW. Effect of co administration of haloperidol and large neutral amino acids (tryptophan and valine) on rats striatal dopamine, serotonin and their metabolism. Pak J Pharm Sci. 2003 Jan;16(1):13-25.
6. Presented in 3rd Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi & International Pharmacy Conference & Exhibition, 2003.
7. Haleem D.J, Batool F, **Kamil N.**, et al: Dopamine/Serotonin metabolite ratio and extrapyramidal effects of clozapine in rats. JCPSP, Vol # 10 (October, 2002) PP: 588-592
8. Obaid R, Ahmed T, Ali O, **Kamil N**, Ahmed SW. Method development for analysis of gliclazide in human plasma by using high-performance liquid chromatography. Pak J Pharm Sci. 2002 Jul;15(2):51-6. PMID: 16414877

Presentations at COCP

- ◆ *Incidences of cancer in pediatric population. COCP, KFU, 2014.*
- ◆ *Smartphone Peripherals & Gadgets for Research in Pharmacy and Medicine. COCP, 2014.*
- ◆ *Guidelines on Handling Hazardous Drugs. COCP, KFU, 2013*
- ◆ *Evaluate the hepatoprotective activity of the flowers of Calotropis procera using antitubercular drugs induced hepatic injury model in rats. Annual Research Day, COCP, KFU. 2012.*

DSR Projects

- ◆ *Development of transdermal delivery system for combination anti-emetic therapy for chemotherapy induced nausea and vomiting in cancer patients". 2014-2015*



*Room Location : College of
Clinical Pharmacy,
Ph.: 03589819
Email :
momorsy@kfu.edu.sa*

Theses Co-Supervision:

*1 PhD thesis and
7 MSc theses.*

Books

- ◆ Morsy M, Emeka P. Diabetes Mellitus and Gastrointestinal Disorders. In: Research on Diabetes II. iConcept Press Ltd (Ed.), 2014. iConcept Press Ltd, Hong Kong. ISBN 978-1-922227-263.
- ◆ Morsy M, El-Sheikh A. Prevention of Gastric Ulcers. In: Peptic Ulcer Disease. Chai J (Ed.), 2011. InTech, Croatia, 437-460. ISBN 978-953-307-976-9.

6. Dr. Mohamed Aly M. Morsy

Ph.D. in Pharmacology, Kumamoto Univ., Japan; Diploma in Clinical Pharmacy, Minia Univ. Egypt

ASSOCIATE PROFESSOR, PHARMACOLOGY

TEACHING EXPERIENCE: Total of 23 years in teaching pharmacology to medical, pharmacy, dental and nursing under- and postgraduates at Minia University (Egypt), Kumamoto University (Japan), and King Faisal University (Kingdom of Saudi Arabia).

RESEARCH INTEREST:

1. Experiments on cardiovascular system (blood pressure measurement, isolated perfused heart preparation as well as ECG tracing in experimental animals).
2. Experiments on gastro-intestinal tract (induction of gastric ulcer and hepatotoxicity by different models).

RECENT PUBLICATIONS:

1. Morsy MA, Ibrahim SA, Amin EF, Kamel MY, Abdelwahab SA, Hassan MK. Carvedilol Ameliorates Early Diabetic Nephropathy in Streptozotocin-Induced Diabetic Rats. Biomed Res Int. 2014;2014:105214. doi: 10.1155/2014/105214.
2. Ramzy MM, El-Sheikh AA, Kamel MY, Abdelwahab SA, Morsy MA. Mechanism of testicular protection of carvedilol in streptozotocin-induced diabetic rats. Indian J Pharmacol. 2014 Mar;46(2):161-5. doi: 10.4103/0253-7613.129307.
3. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaai RA. Protective mechanisms of coenzyme-Q10 may involve up-regulation of testicular P-glycoprotein in doxorubicin-induced toxicity. Environ Toxicol Pharmacol. 2014 Mar;37(2):772-81. doi: 10.1016/j.etap.2014.02.010.
4. Morsy MA, Ibrahim SA, Amin EF, Kamel MY, Rifaai RA, Hassan MK. Curcumin ameliorates methotrexate-induced nephrotoxicity in rats. Adv Pharmacol Sci. 2013;2013:387071. doi: 10.1155/2013/387071
5. Morsy MA, Ibrahim MA, Abd-Elghany MI. Dimethyl dimethoxy biphenyl dicarboxylate attenuates hepatic and metabolic alterations in high fructose-fed rats. Toxicol Ind Health. 2013 Sep 10. doi: 10.1177/0748233713498445.

6. Abdel-Latif RG, Morsy MA, El-Moselhy MA, Khalifa MA. Sildenafil protects against nitric oxide deficiency-related nephrotoxicity in cyclosporine A treated rats. *Eur J Pharmacol.* 2013 Mar 7;705(1-3):126-134. doi: 10.1016/j.ejphar.2013.02.039.
7. Morsy MA, El-Moselhy MA. Mechanisms of the protective effects of curcumin against indomethacin-induced gastric ulcer in rats. *Pharmacology.* 2013 May 15;91(5-6):267-274. doi: 10.1159/000350190.
8. Fouad AA, Al-Mulhim AS, Jresat I, Morsy MA. Protective effects of captopril in diabetic rats exposed to ischemia/reperfusion renal injury. *J Pharm Pharmacol.* 2013 Feb;65(2):243-52. doi: 10.1111/j.2042-7158.2012.01585.x.
9. Zhou J, Morsy M, Kunika K, Yokomizo K, Miyata T. Ergogenic capacity of a 7-Chinese traditional medicine extract in aged mice. *Chinese Medicine.* 2012 Dec;3(4):223-8. doi: 10.4236/cm.2012.34032.
10. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaa RA, Abdelrahman AM. Effect of coenzyme-q10 on doxorubicin-induced nephrotoxicity in rats. *Adv Pharmacol Sci.* 2012;2012:981461. doi: 10.1155/2012/981461.
11. Ibrahim MA, Morsy MA, Hafez HM, Gomaa WM, Abdelrahman AM. Effect of selective and non-selective cyclooxygenase inhibitors on doxorubicin-induced cardiotoxicity and nephrotoxicity in rats. *Toxicol Mech Methods.* 2012 Jul;22(6):424-31. doi: 10.3109/15376516.2012.666658.
12. Morsy MA, Heeba GH, Abdelwahab SA, Rofaeil RR. Protective effects of nebivolol against cold restraint stress-induced gastric ulcer in rats: role of NO, HO-1, and COX-1,2. *Nitric Oxide.* 2012 Jun 8;27(2):117-122. doi: 10.1016/j.niox.2012.06.001.
13. Morsy MA, Abdalla AM, Mahmoud AM, Abdelwahab SA, Mahmoud ME. Protective effects of curcumin, α -lipoic acid, and N-acetylcysteine against carbon tetrachloride-induced liver fibrosis in rats. *J Physiol Biochem.* 2012 Mar;68(1):29-35. doi: 10.1007/s13105-011-0116-0.
14. Morsy MA. Protective effect of lisinopril on hepatic ischemia/reperfusion injury in rats. *Indian J Pharmacol.* 2011 Nov;43(6):652-5. doi: 10.4103/0253-7613.89820.
15. Morsy MA, Ibrahim SA, Abdelwahab SA, Zedan MZ, Elbitar HI. Curative effects of hydrogen sulfide against acetaminophen-induced hepatotoxicity in mice. *Life Sci.* 2010 Dec 18;87(23-26):692-8. doi: 10.1016/j.lfs.2010.10.004.
16. Abdel-Hamid NM, Morsy MA. Novel biochemical pathways for 5-Fluorouracil in managing experimental hepatocellular carcinoma in rats. *J Membr Biol.* 2010 Mar;234(1):29-34. doi: 10.1007/s00232-010-9236-7.

"Anger spoils Faith as much as vinegar spoils honey."

Skills:*Tissue culture technique.**RNA and DNA extraction and manipulation techniques.**RT-PCR technique.**Protein separation.**Western blotting technique.**Confocal laser microscope technique.**Liquid scintillation counter, ELISA, spectrofluorometer and spectrophotometer techniques.***Journals' Reviewer***Reviewer in: European Journal of Pharmacology, PLoS ONE, Pharmacy and Pharmacology, Clinical and Experimental Pharmacology and Physiology, Life Sciences, Medical Science Monitor, Food and Chemical Toxicology, Archives of Pharmacal Research, Journal of Food Science, Phytotherapy Research, Journal of Pharmacy and Bioallied Sciences.***Research Grants' Reviewer***Reviewer in: King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.***6. Dr. Mohamed Aly M. Morsy**

17. Morsy MA, Ashour OM, Fouad AA, Abdel-Gaber SA. Gastroprotective effects of the insulin sensitizers rosiglitazone and metformin against indomethacin-induced gastric ulcers in Type 2 diabetic rats. Clin Exp Pharmacol Physiol. 2010 Feb;37(2):173-7. doi: 10.1111/j.1440-1681.2009.05250.x.
18. Morsy M, Ashour O, Amin E, Rofaail R. Gastroprotective effects of telmisartan on experimentally-induced gastric ulcers in rats. Pharmazie. 2009 Sep;64(9):590-4.
19. Shoman ME, Abdel-Aziz M, Aly OM, Farag HH, Morsy MA. Synthesis and investigation of anti-inflammatory activity and gastric ulcerogenicity of novel nitric oxide-donating pyrazoline derivatives. Eur J Med Chem. 2009 Jul;44(7):3068-76. doi: 10.1016/j.ejmech.2008.07.008.
20. Morsy MA, Fouad AA. Mechanisms of gastroprotective effect of eugenol in indomethacin-induced ulcer in rats. Phytother Res. 2008 Oct;22(10):1361-6. doi: 10.1002/ptr.2502.
21. Fouad AA, Morsy MA, Gomaa W. Protective effect of carnosine against cisplatin-induced nephrotoxicity in mice. Environ Toxicol Pharmacol. 2008 May;25(3):292-7. doi: 10.1016/j.etap.2007.10.026.
22. Abdel-Rahman HM, Morsy MA. Novel benzothiazolyl urea and thiourea derivatives with potential cytotoxic and antimicrobial activities. J Enzyme Inhib Med Chem. 2007 Feb;22(1):57-64.

RECENT ORAL PRESENTATIONS:

1. Morsy MA, El-Sheikh AAK, Mahmoud MM, Rifaai RA. Protective mechanisms of coenzyme-Q10 involves up-regulation of testicular P-glycoprotein in doxorubicin-induced toxicity. The 29th meeting of the Saudi Biological Society, Dammam, Saudi Arabia. February 25-27, 2014.
2. Morsy MA, El-Moselhy MA, Abdel-latif RG, Khalifa MA. Sildenafil ameliorates cyclosporine-induced nephrotoxicity in rats: role of nitric oxide. The Saudi International Conference of Nephrology & Transplantation. King Fahd Cultural Center, Riyadh, Kingdom of Saudi Arabia. February 19-22, 2012.
3. Morsy MA, Ibrahim SA, Abdelwahab SA, Zedan MZ, and Elbitar HI. Therapeutic effects of hydrogen sulfide on acetaminophen-induced hepatotoxicity in mice. Beirut Arab University, Beirut, Lebanon. May 6-7, 2010.

RECENT ORAL PRESENTATIONS:

4. Morsy MA, Ibrahim SA, Abdelwahab SA, Zedan MZ, and Elbitar HI. Therapeutic effects of hydrogen sulfide on acetaminophen-induced hepatotoxicity in mice. University of Aleppo, Aleppo, Syria. April 13-15, 2010.
5. Morsy MA, Eshra A, Azar A. Artificial neural network for automatic detection of arrhythmia from electrocardiogram. EPHAR 2008 Congress, University of Manchester, Manchester, UK. July 13-17, 2008.

RECENT POSTER PRESENTATIONS:

1. Morsy MA, El-Sheikh AAK, Abdalla AM, Hamouda AH, Alhaider IA. Mechanisms of thymoquinone hepato-renal protection in methotrexate-induced toxicity in rats. The 29th meeting of the Saudi Biological Society, Dammam, Saudi Arabia. February 25-27, 2014.
2. El-Moselhy MA, Morsy MA, Abdel-latif RG, Khalifa MA. Enhanced nitric oxide synthase-nitric oxide (NOS-NO) signaling underlies sildenafil amelioration of cyclosporine-induced nephrotoxicity in rats. 12th Experimental Biology Meeting, San Diego, CA. April 21-25, 2012.
3. Ibrahim MA, Morsy MA, Ashour OM, Abd-Elghany. The potential protective effect of chloroquine against high fructose-induced metabolic disorders. Assiut University 8th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt. March 14-15, 2012.
4. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaai RA, Abdelrahman AM. Protective mechanisms of coenzyme Q10 in doxorubicin-induced nephrotoxicity in rats. Assiut University 8th International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt. March 14-15, 2012.
5. Ibrahim MA, Morsy MA, Abd-Elghany MI. Dimethyl dimethoxy biphenyl dicarboxylate (DDB) attenuates hepatic and metabolic changes in high fructose-fed rats. 52nd Annual Scientific Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo University, Cairo, Egypt. March 10, 2012.
6. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaai RA. Protective mechanisms of co-enzyme Q10 involves up-regulation of testicular P-glycoprotein in doxorubicin-induced toxicity. 52nd Annual Scientific Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo University, Cairo, Egypt. March 10, 2012.
7. Morsy MA. Protective effects of lisinopril on hepatic ischemia/reperfusion injury in rats. 51st Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics. Ain Shams University, Cairo, Egypt. March 16-17, 2010.



Room Location: College of
Clinical Pharmacy
Room No: 1003
IP Phone: 03-5899821
Email:
pemeka@kfu.edu.sa

Grant Received:

- ◆ *PhD Grant award 15,400 Naira- University of Lagos -Nigeria*
- ◆ *Cardiotoxic and oxidative stress protection, by caffeic acid phenethyl ester following acute and sub-chronic exposure to co-administration of cyclophosphamide and naproxen in mice. KFU annual Research Grant, 2012-2013, SAR/ 69500.0.*

7. Dr. Promise Madu Emeka

B.Sc.. University of Ibadan, M. Sc; Ph.D. University of Lagos. Nigeria

ASSISTANT PROFESSOR, PHARMACOLOGY

TEACHING EXPERIENCE : Thirteen years of experience in teaching the undergraduate and post graduate Pharmacy students in pharmacology related courses.

RESEARCH INTEREST :

1. Pharmacological Intervention in the treatment of diabetes mellitus and its comorbidities
2. Evaluation of antimicrobial activities of natural products and rational use of antibiotics.
3. In-vivo screening of antioxidant.
4. Evaluation of antiprotozoal activities of natural products.
5. Bioavailability studies
6. Molecular Pharmacology research

LIST OF PUBLICATIONS:

1. **P.M. Emeka** and A.A. Akintonwa,;1999: Teratogenic: Effects of Dietary Cassava (*manihot exculenta* crantz) in pregnant rats. Nigerian of J. Hosp. Med Vol. (4) 333-338
2. **Emeka P.M.**, Akintonwa A. and Adeyemi O.O: 2000: Pharmacological effects of *manihot exculenta* crantz (cassava) West Africa Society Pharmacol. And Drug Research Vol. 16; 26-29.
3. Ebere, A.G. Akintonwa A, **Emeka P.M:** 2000:Embryotoxicity of Nigeria crude oil, oil spill, dispersants and lindane in chick embryo. West Afri. S. Pharmacol & Drug Res. Vol 16; 18 – 21.
4. Tekobo, A. O.Onabanjo, O.O. Amole, **P.M. Emeka:** 2002: Analgesic and Antipyretic Effects of the aqueous extract of *Veronia amygdalina*.West afr.J. Pharm: vol.16 N0.1: 68-74.
5. R.R.Ettarh, **P.Emeka:** 2004:*Morinda Lucinda* extracts induces endothelium-dependent and independent relaxation of rat aorta. Fitoterapia vol.75: 332-336.

6. O.A. Sofola, A. Akintonwa , **P. Emeka** , C. Ladipo, I Raji: 2005: Peak Expiratory Flow Rate in Petroleum Depot Workers and Petrol Filling Station Attendants. *Nigerian Medical Practition*. Vol. 47 (3); 22-25.
7. O. Aina, **P. M. Emeka**, A.Akintonwa, P.U.Agomo. 2005. Comparative Efficacy Study of Chloroquine Dihydroartemisinin and Dihydroartemisinin plus Mefloquine Combination in Children with Acute Uncomplicated Falciparum Malaria. *Nig.Qr.J.Hosp Med*.Vol.15 (2): 59-63.
8. Alade Akintonwa, B.A.Ojo, **P.Emeka**, H.A.B.Coker, and O.Sofola. Effect Of Chronic Exposure To Petroleum Products On Some Haematological And Biochemical Parameters. *Nig.Qr.J.Hosp Med*.Vol.15 (2): 77-82.
9. U.E.Mendie, **P.M.Emeka** and A.F. Banjo: 2005:Are high potency multi-vitamin syrups toxic? *Nig. Qr. J Hosp Med*. Vol.15 (3): 123-126.
10. OO. Aina, **PM Emeka**, A Akintonwa, PU Agomo and OO Aina. 2006:Comparative efficacy of dihydroartemisinin, chloroquine and combination of dihydroartemisinin and chloroquine or mefloquine in mice infected *Plasmodium berghei*. *Nig. Journal of Health and Biomedical Sciences*. Vol.5 (1): 64-67.
11. RA, Oshinubi, **PM Emeka** and Awodele. 2006: The effect of ethanol stem extract of *Gongronema Latifolium* on blood glucose of normal and alloxan induced diabetic rabbits. *Nig. Journal of Health and Biomedical Sciences*. Vol.5 (2): 39-44.
12. AA Akinyede, A Akintonwa, SO Olayemi. **PM Emeka**.2006: Investigating the Idoho oil spillage into Lagos: Some confounding health factors.*Nig. Journal of Health and Biomedical Sciences*. Vol.5 (2): 89-93.
13. **Emeka, PM.**; Badger-Emeka, L.I. and Iwuanyanwu, S.2006: Antibacterial activity of the aqueous extract of the leaf of jatropha curcas. *Journal of Integrative Medicine and Biomedical Research*. Vol.1 (2).15-18.
14. O. Awodele, **P.M Emeka**, A.Akintonwa. O.O. Aina. 2007: Antagonistic effect of vitamin E on the efficacy of Artesunate against *Plasmodium Berghei* infection In Mice. *African Journal of Biomedical Research*. Vol.10: 51-57.
15. Akintonwa, O. Awodele, **P.M.Emeka**, O. Osajare.2007: The mutagenic potentials of potassium bromate and some commonly used food additives. *African Journal of Biotechnology*.Vol.6 (8): 1004-1006.
16. O.Awodele, **P.M.Emeka**, H.C. Agbamuche, and A.Akintonwa.2007: The antimicrobial activities of some commonly used disinfectant on *Bacillus subtilis*, *Pseudomonas aeruginosa* and *Candida albicans*. *African Journal of Biotechnology*.Vol.6 (8):987-990.

Book Chapter

Promise Madu Emeka & Lorina Badger-Emeka.
Mechanism of Action of Plants in Relation to Their Medicinal Properties
 printed in Vol. 43 *Phytotherapeutics of the Series "Recent Progress in Medicinal Plants 2014 Book Chapter [in Press].*

7. Dr. Promise Madu Emeka

17. Mbang A.wolabi, Moyosola M. Abass, **Promise M. Emeka**, Smith I. Jaja, Martin Nnoli, Benjamin O. S. Dosa. 2010. Biochemical and histologic changes in rats after prolonged administration of the crude aqueous extract of the leaves of *Vitex grandifolia*. Pharmacognosy Research. September Vol 2.(5):273-278.
18. Iniaghe L.O., **Emeka P.M** and Ogbunugafor H (2012) Effects of co-administration of ascorbic acid on sulphadoxine/pyrimethamine in mice infected with Plasmodium berghei Nigerian Journal of Pharmacy, 45(1); 48-52. **Emeka PM**, Badger-Emeka LI, Fateru F. In-vitro Antimicrobial activities of Acalypha ornate Leaf Extracts on Bacterial and Fungal Clinical Isolates. Journal of herbal Medicine. 2012; 2:136-142.
19. **Promise Madu Emeka**, Mokhtar Jawad Al-Omar & Tahir Mehmood Khan. A Qualitative Study Exploring Role of Community Pharmacy in the Irrational Use and Purchase Of Nonprescription Antibiotics In Al Ahsa Eur J Gen Med 2012;9(4):230-234.
20. Tahir Mehmood Khan, **Promise Emeka** and Amer Hayat Khan. Drug Information Activity and Non-prescription Requests Over the Malaysian Counter. Therapeutic Innovation & Regulatory Science published online 7 January 2013. DOI: 10.1177/2168479012462214.
21. Nnoli, M., Hadas G., **Emeka, PM.**, Chukwuonye I.J , Nnoli C. Cocaine Intoxication-Clinical Findings from 402 Acute Deaths. IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 5, Issue 3 (Mar. - Apr. 2013), PP 54-58.
22. Emeka Lorina. Ineta, **Emeka Promise**. Madu, Okoli, Chigozie. Linus. Evaluation of antibiotic susceptibility of *Staphylococcus aureus* isolated from nasal and thumbprints of University students and their resistance pattern. IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 5, Issue 5 (Mar.- Apr. 2013), PP 59-64.
23. Morsy M, **Emeka P**. Diabetes Mellitus and Gastrointestinal Disorders. In: Research on Diabetes. iConcept Press (Ed.), 2013. iConcept Press, Hong Kong, China. ISBN 978-14775550-1-9. (Book Chapter: in press)
24. Badger-Emeka L, **Emeka P**, Egbu V. (2013). Prevalence of Plasmodium parasite among Blood Donors at Nsukka Area, Southeast Nigeria. BEST: International Journal of Humanities, Arts, Medicine and Sciences (BEST: IJHAMS) Vol. 1(2): 45-50.
25. **Emeka PM**, Badger-Emeka LI. et al., (2014). Dietary Supplementation of chloroquine with Nigella sativa seed and oil extract in the treatment of malaria induce Plasmodium berghei. Phcog Mag 2014 (10) 357-362.
26. **Promise M. Emeka**, Mokhtar Al-Omar, Tahir M. Khan. Public attitude and justification to purchase antibiotics in the Eastern region Al Ahsa of Saudi Arabia. Saudi Pharmaceutical Journal. 2014. Open Access. DOI: 10.1016/j.jsps.2014.02.014.
27. Emeka Lorina I, **Emeka Promise M** & Tahir M Khan. Antimicrobial activity of Nigella sativa Linn. Seed oil against multi-drug resistant *Staphylococcus aureus* isolated from diabetic wounds. [Accepted and in-press, Pakistan Journal of Pharmaceutical Sciences].
28. Badger-Emeka LI, **Emeka PM** and Dibua UME. Profile of Multi Antibiotic Resistant Staphylococcus aureus isolated from Diabetic Wounds from Patients at Nsukka, South-Eastern, Nigeria. [Accepted in the African Journal of Biotechnology-2014].

Presentations and abstracts:

1. **2004:** Emeka PM, Ukpo GE, Oyelahan, O.O.: Biochemical and Haematological evaluation of (Cucurbitaceae) *Cucubita Maxima* in albino rats. Published abstract International Congress on Natural Products Research July 31 – August 4, 2004 Phoenix, Arizona USA
2. **2003: P.M.Emeka.,** S. Iwuanyanwu.,and L.I.Emeka: Screening of *Azadiracta Indica aqueous* leaf extract for possible activity in mice infected with Trypanosoma Brucei brucei . Published abstract. A020,30^h Regional Conference of the WASP, October 2003, 18--24th University of Ibadan, Ibadan
3. **2003 : P.M.Emeka.,**M.M.Lawal.,S. Genebiche.,In-Vitro studies of *Bryophyllum Pinna-tum* aqueous extract on blood coagulation. . Published abstract. Number B024, 30^h Regional Conference of the WASP, October 2003, 18--24th University of Ibadan, Ibadan.
4. **2000: Emeka P.M.** Akintonwa A and Adeyemi O.O. Toxicity studies of *manihot wscu-lentaI* crantz in albino rats. Published abstract. 27th Regional Conference of the WASP, October 2000, 23-28th Port Harcourt.
5. **2000: Emeka P.M.** Akintonwa .A and Adeyemi O.O Changes in thiocyanate levels of Diabetic and Goiter patients. Published abstract. 27th Regional Conference of the WASP, October 2000, 23-28th Port Harcourt
6. **2000: Akinydede A.** Olayemi S. Akintonwa A. ,**Emeka P.M.** Assessing thr health impact of the Mobil Idoho iol spillage. Published abstract. 27th Regional Conference of the WASP, October 2000, 23-28th Port Harcourt
7. **1999: Emeka P.M.** Akintonwa A. and Adeyemi O.O. Baseline study of thiocyanate levels among Nigeria residing in Lagos. Published abstract. 26th Regional conference of the West Africa Society for Pharmacology (WASP) October 1999, 20-23rd. Nsukka.
8. **1998: Emeka P.M.** Akintonwa Adeyemi O.O. A comparatine study of cardiotoxic effect of linamarin and potassium cyanide in animal models. Published abstract XIIIth international congress of pharmacology, July 2-31 Munchen, Germany.

Professional services :

1. Bioavailability studies of parakaf /paracetamol for NAFDAC- Nigeria
2. Toxicology Analysis of drug/products routine- Nigeria
3. Bioavailability study of Thalazole and Thiazamide for May and Baker- Nigeria
4. Bioavailability studies of Paracetamol/ caffeine for Roche (Nig) Limited, Lagos Nigeria
5. Clinical trials of anti-malaria- Paluther for May & Baker Plc. Lagos- Nigeria



*Room Location: College of
Clinical Pharmacy*

Room No: 1067

IP Phone: 03-5899831

Email: anair@kfu.edu.sa

Book Authorship

- ◆ *Transdermal Delivery of Antihypertensive agents. ISBN-10: 3847301934, Lambert Academic Publishing, USA, 2011.*
- ◆ *In vitro and in vivo models for transungual drug delivery studies (Book Chapter), ISBN-10: 1439811296, CRC Press-Taylor and Francis Group, USA,*

Supervision:

17 PhD thesis

More than 25 M. Pharma thesis

8. Dr. Anroop B Nair

B. Ph. Dr. MGR Medical Univ, M. Ph; BITS Ranchi, Ph.D. Jadavpur Uni, Kolkata, India

ASSISTANT PROFESSOR, PHARMACEUTICS

Teaching Experience

Fifteen years of experience in teaching the undergraduate and post graduate Pharmacy students in courses like Drug Delivery, Pharmaceutics, Biopharmaceutics & Pharmacokinetics, Physical Pharmacy and Dosage Form Design.

Research Interest

Transdermal and transungual drug delivery.
Topical bioavailability and dermatokinetics of topical drugs.
Noninvasive approach for therapeutic drug monitoring.
Noninvasive buccal delivery.
Micro and macro nutrients delivery in chronic disorders.
Enhancement of oral bioavailability using nano formulations.
Nano delivery for liver targeting

LIST OF PUBLICATIONS:

1. Kumria R, **Anroop B**, Al-Dhubiab BE. Loratidine buccal films for allergic rhinitis: development and evaluation. *Drug Dev. Ind. Pharm.* 40: 625-631, 2014.
2. **Anroop B**, Singh K, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider IA, Skin uptake and clearance of ciclopirox following topical application, *Biopharm. Drug Dispos.* 34: 540-549, 2013.
3. **Anroop B**, Jacob S, Al-Dhubiab BE, Attimarad MV, Harsha S, Basic considerations in the dermatokinetics of topical formulations, *Brazilian J. Pharm. Sci.* 49:423-434, 2013.
4. **Anroop B**, Singh K, Shinu P, Harsha S, Al-Dhubiab BE, A comprehensive study to evaluate the effect of constant low voltage iontophoresis on transungual delivery, *Drug Dev. Ind. Pharm.*, 39:807-815, 2013.
5. **Anroop B**, Kumria R, Harsha S, Attimarad MV, Al-Dhubiab BE, Alhaider IA, In vitro techniques to evaluate buccal films. *J. Control Release*, 166, 10-21, 2013.
6. Gupta A, **Anroop B**, Kumria R, Al-Dhubiab BE, Chattopadhyaya I, Gupta S, Assessment of pharmacokinetic interaction of Spirulina with glitazone in type II diabetes rat model. *J Med Food.* 16, 1095-1100, 2013.
7. Wadhwa J, **Anroop B**, Kumria R. Potential of plant mucilages in pharmaceuticals and therapy, *Curr. Drug Deliv.* 10, 198-207, 2013.
8. **Anroop B**, Kaushik A, Attimarad M, Al-Dhubiab BE, Enhanced oral bioavailability of calcium using bovine serum albumin microspheres. *Drug Deliv.* 19, 277-285, 2012.
9. **Anroop B**, Vaka SRK, Gupta S, Repka MA, Murthy SN. *In vitro* and *In vivo* evaluation of a hydrogel based prototype transdermal patch system of alfuzosin hydrochloride. *Pharm. Tech. Dev.* 17, 158-163, 2012.
10. Wadhwa J, **Anroop B**, Kumria R. Emulsion forming drug delivery system for lipophilic drugs. *Acta Pol. Pharm. Drug Res.* 69, 179-191, 2012.

10. Rao R, Sanju N, **Anroop B**, Influence of ultrasound mediated transdermal delivery of losartan potassium. *Drug Del Lett.* 2, 46-53, 2012.
11. **Anroop B**, Goel A, Prakash S, Kumar A, Therapeutic drug monitoring by reverse iontophoresis. *J. Basic. Clin. Pharm.* 3, 207-213, 2012.
12. **Anroop B**, Vaka SRK, Murthy SN. Trans-ungual delivery of terbinafine by iontophoresis in onychomycotic nails. *Drug Dev. Ind. Pharm.* 37, 1253-1258, 2011.
13. Wadhwa J, **Anroop B**, Kumria R. Self-emulsifying therapeutic system: a potential approach to deliver lipophilic drugs. *Brazilian J. Pharm. Sci.* 47, 447-465, 2011.
14. **Anroop B**, Vyas H, Shah J, Kumar A. Effect of permeation enhancers on the iontophoretic transport of metoprolol tartrate and the drug retention in skin. *Drug Deliv.* 18, 19-25, 2011.
15. **Anroop B**, Chakraborty B, Murthy SN. Effect of polyethylene glycols on the trans-ungual delivery of terbinafine, *Curr. Drug Deliv.* 7, 407-414, 2010.
16. **Anroop B**, Gupta R, Kumria R, Jacob S, Attimarad M. Formulation and evaluation of enteric coated tablets of proton pump inhibitor. *J. Basic. Clin. Pharm.* 1, 215-221, 2010.
17. **Anroop B**, Vyas H, Kumar A. Controlled release matrix uncoated tablets of enalapril maleate using HPMC alone. *J. Basic. Clin. Pharm.* 1, 71-74, 2010.
18. **Anroop B**, Kim HD, Friden PM, Davis SP, Etheredge R, Barsness M, Murthy SN. An ex vivo toe model used to assess applicators for the iontophoretic ungual delivery of terbinafine. *Pharm. Res.* 26, 2194, 2009.
19. **Anroop B**, Kim HD, Chakraborty B, Singh J, Zaman M, Gupta A, Friden PM, Murthy SN, Ungual and trans-ungual iontophoretic delivery of terbinafine for the treatment of onychomycosis. *J. Pharm. Sci.* 98, 4130-4140, 2009.
20. Murthy SN, Vaka SRK, Sammeta SM, **Anroop B**. TranScreen-N™: Method for rapid screening of Trans-ungual drug delivery enhancers. *J. Pharm. Sci.* 98, 4264-4271, 2009.
21. **Anroop B**, Ghosh B, Parcha V, Khanam J. Transdermal delivery of atenolol: Effect of prodrugs and iontophoresis. *Curr. Drug. Deliv.* 6, 280-290, 2009.
22. **Anroop B**, Sammeta SM, Kim HD, Friden PM, Chakraborty B, Murthy SN. Alteration of the barrier properties of the nail lead to greater terbinafine drug loading and permeation. *Int. J. Pharm.* 375, 22-27, 2009.
23. **Anroop B**, Reddy C, Jacob S. Delivery of classical antihypertensive agent through the skin by chemical enhancers and iontophoresis, *Skin Res. Tech.* 15, 187-194, 2009.
24. **Anroop B**, Vaka SRK, Sammeta SM, Kim HD, Friden PM, Chakraborty B, Murthy SN. Trans-ungual iontophoretic delivery of Terbinafine. *J. Pharm. Sci.* 98, 1788-1796, 2009.
25. Jacob S, Shirwaikar A, **Anroop B**. Preparation and evaluation of fast-disintegrating effervescent tablets of glibenclamide. *Drug. Dev. Ind. Pharm.* 35, 321-328, 2009.
26. **Anroop B**, Sammeta SM, Vaka SRK, Murthy SN. A study on the effect of inorganic salts in trans-ungual drug delivery of terbinafine. *J. Pharm. Pharmacol.* 61, 431-437, 2009.
27. Shah J, Vasanti S, **Anroop B**, Vyas H. Enhancement of dissolution rate of valdecoxib by solid dispersions technique with PVP K 30 and PEG 4000: preparation and in vitro evaluation. *J. Incl. Phenom. Macrocycl. Chem.* 63, 69-75, 2009.

Manuscript Reviewer

- *European Journal of Pharmaceutics and Biopharmaceutics.*
- *International Journal of Pharmaceutics.*
- *Journal of Controlled Release.*
- *Drug Delivery*
- *Pharmaceutical Technology and Development.*

Highlights:

- *Post-Doctoral Fellow, University of Mississippi, Mississippi, USA (2007-2009).*
- *One project has completed the phase II clinical trials in USA.*
- *More than 100 research findings; published in peer reviewed journals/presented in conferences.*
- *Supervised 25 Post Graduate theses.*
- *Steering committee member of micro-dialysis Focus group.*
- *Expertise in the field of novel preclinical drug delivery approaches, trans-ungual drug delivery, topical & transdermal drug delivery, dermatokinetics, nano formulation and drug delivery, in vivo animal studies, oral controlled drug delivery, targeted drug delivery, pre-formulation studies, protocol development, analytical development etc.*
- *Active member of several pharmaceutical councils/forums, and reviewer journals in the field of Pharmaceutics.*

8. Dr. Anroop B Nair

Selected Abstracts

1. **Anroop B**, Jacob S, Ahmed M.K. Al-Dhubiab BE, Al-Jaeid BM, Constant low voltage iontophoresis for the transungual delivery of terbinafine, AAPS Annual meet, San Antonio, USA (2013).
2. **Anroop B**, Wadhwa J, Jacob S, Ahmed MK, Al-Dhubiab BE, Measurement of uptake and clearance of topical acyclovir in the target site using rat model, AAPS Annual meet, San Antonio, USA (2013).
3. **Anroop B**, Wadhwa J, Al-Dhubiab BE, Attimarad M, Harsha S, Therapeutic drug monitoring of gabapentin by reverse iontophoresis, AAPS Annual meet, San Antonio, USA (2013).
4. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Al-Jaeid BM, Buccal delivery system for controlled release of selegiline, AAPS Annual meet, San Antonio, USA (2013).
5. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., In vitro and in vivo evaluation of a novel carrier for calcium delivery, AAPS Annual meet, Chicago, USA (2012).
6. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., Therapeutic drug monitoring of carbamazepine by reverse iontophoresis, AAPS Annual meet, Chicago, USA (2012).
7. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., Skin permeation and dermatokinetics of ciclopirox olamine, AAPS Annual meet, Chicago, USA (2012).
8. **Anroop B**, Kim HD, Davis SP, Friden PM, Murthy SN. Trans-ungual iontophoresis of terbinafine for onychomycosis: Ex vivo evaluation, AAD conference, San Francisco, CA (2009).
9. **Anroop B**, Jacob S, Ahmed M.K. Al-Dhubiab BE, Al-Jaeid BM, Constant low voltage iontophoresis for the transungual delivery of terbinafine, AAPS Annual meet, San Antonio, USA (2013).
10. **Anroop B**, Wadhwa J, Jacob S, Ahmed MK, Al-Dhubiab BE, Measurement of uptake and clearance of topical acyclovir in the target site using rat model, AAPS Annual meet, San Antonio, USA (2013).
11. **Anroop B**, Wadhwa J, Al-Dhubiab BE, Attimarad M, Harsha S, Therapeutic drug monitoring of gabapentin by reverse iontophoresis, AAPS Annual meet, San Antonio, USA (2013).
12. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Al-Jaeid BM, Buccal delivery system for controlled release of selegiline, AAPS Annual meet, San Antonio, USA (2013).
13. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., In vitro and in vivo evaluation of a novel carrier for calcium delivery, AAPS Annual meet, Chicago, USA (2012).
14. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., Therapeutic drug monitoring of carbamazepine by reverse iontophoresis, AAPS Annual meet, Chicago, USA (2012).
15. **Anroop B**, Al-Dhubiab BE, Attimarad M, Harsha S, Alhaider I.A., Skin permeation and dermatokinetics of ciclopirox olamine, AAPS Annual meet, Chicago, USA (2012).

Highlights:

- ◆ Received research grant from King Abdulaziz city for Science and Technology (KACST), National Science, Technology and Innovation Plan under Strategic Technology program.
- ◆ Post-Doctoral Fellow, University of Mississippi, Mississippi, USA (2007-2009).
- ◆ One project has completed the phase II clinical trials in USA.
- ◆ More than 100 research findings; published in peer reviewed journals/presented in conferences.
- ◆ Supervised 25 Post Graduate theses.
- ◆ Steering committee member of micro-dialysis Focus group.
- ◆ Active member of several pharmaceutical councils/forums, and reviewer journals in the field of Pharmaceutics.
- ◆ Expertise in the field of novel preclinical drug delivery approaches, trans-ungual drug delivery, topical & transdermal drug delivery, dermatokinetics, nano formulation and drug delivery, *in vivo* animal studies, oral controlled drug delivery, targeted drug delivery, preformulation studies, protocol development, analytical development etc.
- ◆ Current research interests include the improvement of treatment methods of diseases and replace all invasive and painful techniques with the most patient acceptable noninvasive techniques.

PG Thesis Supervised

- ◆ Dermal absorption and pharmacokinetics of ciclopirox.
- ◆ Constant low voltage iontophoresis: A novel approach for transungual drug delivery.
- ◆ Microparticulate drug delivery system for oral delivery of calcium
- ◆ Transdermal delivery of a model anti-neo plastic agent: Comparison of iontophoresis with nanoparticles.
- ◆ Solubility enhancement of poorly soluble drugs by solid dispersion technique.
- ◆ Controlled release of alfuzosin using HPMC-based matrix tablets.
- ◆ Formulation and *in vitro* evaluation of floating tablet of various drugs.
- ◆ Formulation and evaluation of fast dissolving tablets by novel approaches.
- ◆ Enhanced transdermal delivery using chemical permeation enhancers and iontophoresis.
- ◆ Development of gels for the transdermal application by iontophoresis.



Room Location : College of
Clinical Pharmacy,

Ph.: 03589904

Email :

tshehata@kfu.edu.sa

DSR KFU Grants:

◆ *King Faisal University, DSR 140184, Evaluation of Iontophoresis Effect on Niosome-Emulgel Combination as a Novel Transdermal Drug Delivery System. Principle investigator, DR. Tamer Shehata (2012-2013)*

◆ *King Faisal University, DSR 15782, In-vivo and In-vitro Evaluation of Atorvastatin Transdermal Patches as Promising Drug Delivery System, Principle investigator DR. Tamer Shehata (2013-2014).*

9. Dr. Tamer Mohamed Shehata

B.Sc. M. Ph, Zagazig Uni, Egypt, Ph.D. Okayama University, Japan

ASSISTANT PROFESSOR, PHARMACEUTICS

TEACHING EXPERIENCE : 5 years in teaching pharmaceutics, industrial Pharmacy, physical pharmacy, pharmaceutical dosage forms, Bioavailability and Pharmacokinetics at under graduate and post graduate students.

RESEARCH INTEREST :

- Formulation and evaluation of different pharmaceutical dosage forms.
- Bioavailability and Pharmacokinetics analysis
- Target Drug Delivery designs and evaluation
- Animal Handling Experience (Rat and Mice)
- Cell line handling and Tumor inculcation into BALB C mice (C26 cell line)
- HPLC, Gel Electrophoresis, Western Plot, Biotechnological tools for protein analysis, Radioisotope.

LIST OF PUBLICATIONS:

1. Formulation and Evaluation of Tramadol Hydrochloride Microspheres. F.S.Ghazy, O.A.Sammour, M.E.Abu-Seleem, and T.M.Shehata. Zagazig J. Pharm. Sci.12:29-35(2003)
2. Formulation and Evaluation of Tramadol Hydrochloride Suppository Bases. F.s.Ghazy, O.A.Sammour,M.E.Abu-Seleem,andT.M.Shehata. Zagazig MJPS.21:1-18 (2005)
3. Prolongation of residence time of liposome by surface-modification with mixture of hydrophilic polymers, Tamer Shehata, Ken-ichi Ogawara, Kazutaka Higaki and Toshikuro Kimura. Int.J.Pharm. (2008)
4. In Vitro Evaluation Of Sustained Release Suppositories Containing Propranolol Hydrochloride Microspheres. Tamer M. Shehata and Mahmoud M. Ibrahim. Zagazig J. Pharm. Sci. June: 12-19(2010)
5. The Enhancement of Transdermal permeability and anti-inflammatory effect of Ketorolac Tromethamine formulated as novel niosome emulgel combination. Mahmoud M. Ibrahim and Tamer M. Shehata. J. Drug Del. Sci. Tech. 22 (4) 353-359 (2012).
6. Sherif E. Emam, Fakhr-Eldin S. Ghazy, Ahmed S. Zidan & Tamer M. Shehata. Solid Dispersion Approach for Optimized Bioavailability of Sulpiride. Latin American Journal of Pharmacy - 32 (6) – 2013

7. Ahmed S Zidan , Bader M Aljaeid , Mahmoud Mokhtar , Tamer M. Shehata. Taste-masked orodispersible tablets of cyclosporine self-nanoemulsion lyophilized with dry silica. Pharm Dev Technol. 2014 Jul 29:1-10. [Epub ahead of print]
8. Mohammed A. Khedr, Tamer M. Shehata, Maged E. Mohamed. Repositioning of 2, 4-Dichlorophenoxy acetic acid as a potential anti-inflammatory agent: In Silico and Pharmaceutical Formulation study. Eur J Pharm Sci. 2014 Sep 20;65C:130-138
9. Tamer M. Shehata, Marwa H. Abdallah and Mahmoud Mokhtar Ibrahim. Proniosomal Oral Tablets for Controlled Delivery and Enhanced Pharmacokinetic Properties of Acemetacin. [AAPS PharmSciTech (# 2014) DOI: 10.1208/s12249-014-0233-5]

CONFERENCE/SEMINAR/WORKSHOP:

1. Participated in El-Azhar International conference in 2003, Cairo. Egypt
2. Participated in IXXX conference of pharmaceutical science and VIII conference of the college of pharmacy in the Arab world in 2004, Cairo, EGYPT (Formulation and Evaluation of Tramadol Hydrochloride Microspheres). Tamer.M.Shehata, O.A.Sammour, M.E.Abu-Selem, and F.s.Ghazy.
3. Participated in APSTJ Global education seminar west, 2005, Kobe. Japan
4. Participate in DDS conference in 2006, Tokyo. Japan (Formulation and Evaluation of Liposomes Coated with Mixture of Hydrophilic Polymers) Tamer Shehata, Ken-ichi Ogawara, Kazutaka Higaki and Toshikiro Kimura
5. Participated in APSTJ conference in 2007, Tokyo. Japan (Hepatic disposition characteristics of Liposomes Coated with Mixture of hydrophilic polymers) Tamer Shehata, Ken-ichi Ogawara, Kazutaka Higaki and Toshikiro Kimura
6. Participated in Okayama University meeting for Proteomic handling researcher in 2008, Okayama. Japan
7. Participated in EJISST conference in 2008, Tokyo. Japan (Prolongation of residence time of liposome by surface-modification with mixture of hydrophilic polymers) Tamer Shehata, Ken-ichi Ogawara, Kazutaka Higaki and Toshikiro Kimura
8. Participated in DDS conference in 2008, Tokyo. Japan (Formulation and Evaluation of PEGylated Niosomes for Targeted Drug Delivery) Tamer Shehata, Ken-ichi Ogawara, Kazutaka Higaki and Toshikiro Kimura
9. Attending in APSTJ Global education seminar west, 2008, Kyoto. Japan
10. Participated in Assuit University Pharmaceutical conference, 2010, Egypt.
11. Attending 32nd International conference of Egyptian Pharmaceutical Society, 2011, Egypt.
12. FUE international Conference, 2012, EGYPT.
13. 1st Saudi Quality Forum, Riyadh, 2013, Saudi Arabia.
14. Participated 29th conference of Saudi Biological Society, FEB.25-27-2014 In Dammam, KSA

Supervising 5 master course students, in projects dealing with, Tablet, Solid dispersion, Suppository, Microemulsion, Microspheres, and Liposomes

Awards:

1. *Egyptian President award, as one of the best-graduated student from Egyptian national Universities, Cairo, 2000.*
2. *Full scholarship for Ph.D. degree in Targeted Drug Delivery System, from the Egyptian Government, 2005-2009.*
3. *The Nagai Foundation award, presented In Expectation of Much Greater Achievement in Pharmacy and Pharmaceutical Science. Tokyo, 2007.*
4. *The First Egypt-Japan International Symposium on Science and Technology, EJISST 2008 award. Waseda University, Japan, 2008.*



**Room Location : College
of Clinical Pharmacy,
Ph.: 035817175 / 358**

10. Dr. Mohammed Abdou Khedr

B.Ph & M. Ph, Helwan University Egypt, M Phil & Ph.D. Cardiff University, UK

ASSISTANT PROFESSOR,

TEACHING EXPERIENCE : .10 years of teaching medicinal chemistry, drug design and pharmaceutical organic chemistry

RESEARCH INTEREST :

1. Structure-based drug design
2. Ligand-based drug design
3. Virtual screening of new anti diabetic drugs.
4. Design and synthesis of novel anticancer.
5. All computational & molecular modeling studies.
6. Homology modeling.
7. 3D QSAR.

LIST OF PUBLICATIONS:

1. Repositioning of 2,4-Dichlorophenoxy acetic acid as a potential anti-inflammatory agent: In Silico and pharmaceutical formulation study. *In press*, European Journal of Pharmaceutical Sciences, 2014.
2. Synthesis, molecular docking and antibacterial evaluation of various quinoline Schiff bases: labelling and biodistribution of ^{99m}Tc-2-(p-hydroxybenzylidene)-1-(quinoline-4-yl) hydrazine. Medicinal Chemistry Research, 2014, 23, 4011-4020
3. Synthesis, Molecular Docking and Preliminary in-Vitro Cytotoxic Evaluation of Some Substituted Tetrahydro-naphthalene (2',3',4',6'-Tetra-O-Acetyl-β-D-Gluco/-Galactopyranosyl) Derivatives. Molecules 2012, 17, 4717-4732
4. Synthesis, antitumor activity and molecular docking study of novel benzofuran-2-yl pyrazole pyrimidine derivatives. Acta Poloniae pharmaceutica – Drug research. 2011, 68 (3).
5. Synthesis, biological evaluation and molecular docking of quinazoline-4(1H)-one derivatives as anti-inflammatory and analgesic agents. Acta Pol Pharm. 2011, 68(5):665-75

6. Synthesis, Biological Evaluation and Molecular Docking of Novel Series of Spiro[(2h,3H)quinazoline-2,1'-cyclohexan]-4(1H)-one Derivatives as Antiinflammatory and Analgesic Agents. Eur. J. Med. Chem. 2010. 45 (6), 2117-2131
7. 2-Arylamino-4Amino5-Aroylthiazoles. "One-Pot" Synthesis and Biological Evaluation of a New Class of Inhibitors of Tubulin Polymerization. J. Med. Chem. 2009. 52 (17), 5551-5555
8. West Nile Virus Helicase: Homology Modeling and Docking Studies, Anti-viral research. 2009, 82, 2, 60.

Presentations and Abstract

1. **QSAR-Based Virtual Screening: Computational tool for discovering potential inhibitors of West Nile Virus NS3 Protease.** 'Fragment- and Ligand-based *Drug Design Conference*' at Oxford University, United Kingdom.
2. "Personal strategic planning and grant writing", College of clinical pharmacy, 17-12-2012. KFU.
3. **Mohammed Abdou**, "Molecular Modeling 'concepts and applications' that was held in Helwan University, Egypt. 17-01-2012
4. **Mohammed Abdou**, "Computer-aided drug design and synthesis of novel antivirals", Cardiff university, UK.

KFU annual Research Grant

- ◆ Design and Synthesis of Novel Dipeptidyl Peptidase IV Inhibitors for the Treatment of Type-2 Diabetes Mellitus, KFU annual Research Grant, DSR 2012-2013, SAR 77000. 2012-2013
- ◆ Dr. Mohammed Abdou Khedr, Dr. Ibrahim Al-Haider, Dr. Bandar Al-Dhubiab, Dr. Tamer Mustafa, Dr. Maged El- Sayed, Design and Synthesis of Novel Phosphonate Containing molecules that could be used in Treatment of cancer. KFU annual Research Grant, DSR 2013-2014, SAR 96000. 2013-2014

Ph.D, Cardiff University,
Welsh School of Pharmacy,
Cardiff, UK.

**"Computer-aided drug
design"**



Room Location : College of
Clinical Pharmacy,
Ph.: 035817175
Email :
heahmed@kfu.edu.sa

Professional Services

- ◆ **Board member of a special Pharmaceutical and Herbal Products Unit, Faculty of Pharmacy, Minia University, Minia, Egypt. 2010-2012**
- ◆ **2-Board member of Crisis management and Quality assurance unit Faculty of Pharmacy, Minia University, Minia, Egypt. 2010-2012**
- ◆ **3-Executive manager of Electronic Portal Faculty of Pharmacy, Minia University, Minia, Egypt. 2010-2011**

11. Dr. Hany Ezzat Khalil Ahmed

Diploma in Clinical Ph, Minia Uni; B.Sc Pharm Sci; Ph.D. Kumamoto University, Japan

ASSISTANT PROFESSOR, PHARMACOGNOSY

TEACHING EXPERIENCE : Total of 12 years in teaching pharmacognosy, Natural products and Alternative medicine.

RESEARCH INTEREST :

1. Isolation of naturally occurring compounds from plants.
2. interpretation of the isolated compounds by using Physical and chemical analyses and biological investigation.
3. Discover novel biologically active compounds that could be used to develop new therapeutic medical agents.

LIST OF PUBLICATIONS:

1. **Hany E. Khalil**, Ahmed Abdel-Lateff, Mohamed A. ELShanawany, Mahmoud H. Assaf , and Mohamed S. Kamel. Macro-and Micro-morphology of *Lippianodiflora* L. cultivated in Egypt: Leaf, flower, stem and root. *Az. J. Nat. Prod.* 2006, 11, 100-115.
2. **H. E. Khalil**, H. Ismail, A. Taye and M. S. Kamel. Gastroprotective effect of *Lippianodiflora* extracts in ethanol-induced gastric lesions. *Phcog Mag. Vol 3, Issue 12, Oct-Dec, 2007.*
3. Mamdouh Nabil Samy, **Hany Ezzat Khalil**, Sachiko Sugimoto, Katsuyoshi Matsunami, Hideaki Otsuka and Mohamed Salah Kamel: Three new flavonoid glycosides, byzantionoside B 6'-O-sulfate and xyloglucoside of (Z)-hex-3-en-1-ol from *Ruellia patula*; *Chem. Pharm. Bull.* 59(06) 725-729 (2011).
4. **Hany Ezzat Khalil**, Liva Harinantenaina, Katsuyoshi Matsunami, Hideaki Otsuka and Mohamed Salah Kamel. Antioxidant Activity of Chemical Constituents from aerial parts of *Cichorium endivia*. XXXII conference of pharmaceutical sciences, December 2011.
5. M. N. Samy, **H. E. Khalil**, A. S. Wanas, M. S. Kamel, S. Sugimoto, K. Matsunami, and H. Otsuka. Chemical Constituents from the Leaves of *Ruellia tuberosa*. *Chemistry of Natural Compounds*, 49(1), 175–176 (2013).
6. Amira S. Wanas, Mostafa A. Fouad and **Hany E. Khalil**. Phytochemical and Biological Studies of *Clerodendrum glabrum* Leaves. *International Journal of Pharmacognosy and Phytochemistry*, 28(2), 2051-7858(2013).

PUBLICATIONS

7. Ashraf N. E. Hamed, Marwa H. H. Muhammad, **Hany E. Khalil**, Mohamed S. Kamel. Pharmacognostical Studies of the Leaf of *Citharexylum quadrangulare* Jacq. Cultivated in Egypt. *Journal of Pharmacognosy and Phytochemistry*; 2 (5): 98-103(2014)
8. Nada M. Abdel-Wahab, Ashraf N. E. Hamed, **Hany E. Khalil**, Mamdouh N. Samy, Amira S. Wanas, Mostafa A. Fouad, Mohamed S. Kamel. Phenolic acid glycosides from *Parmentiera cereifera* Seem. (Candle tree). *Phytochemistry Letters*, 9, 74–77 (2014).
9. El-Kashef, Dina F.; Hamed, Ashraf N. E.; **Khalil, Hany E.**; Kamel, Mohamed S. Investigation of the unsaponifiable and saponifiable matters of *Pachypodium lamerei* drake leaves and stems by GC/MS. *Journal of Pharmacognosy and Phytochemistry* 3(1), 128-132(2014)

Presentations and Abstracts

1. **HanyEzzat Khalil**, Liva Harinantenaina, Katsuyoshi Matsunami, Hideaki Otsuka and Mohamed Salah Kamel. Antioxidant Activity of Chemical Constituents from aerial parts of *Cichorium endivia*. XXXII conference of pharmaceutical sciences, December 2011.
2. M.M.H.Muhammad, A.N.E. Hamed, **H.E.Khalil**, M.S.Kamel, A Phytochemical Study of *Citharexylum quadrangulare* Jacq., 4th International Scientific Conference of Faculty of Pharmacy, Cairo University "Pharmacy Education and Community Expectations" April 24th and 25th, 2013.
3. Wanas A.S., **Khalil H. E.**, Fouad M. A., Kamel M. S., Radwan M. M., Elsohaly. M. A. Phytochemical Study of the leaves of *Clerodendrum glabrum* (verbenaceae). Annual meeting of the ASP, July 14-17, 2013, St. Louis. Missouri, USA
4. Ashraf N. E. Hamed, Marwa H. H. Muhammad, **Hany E. Khalil** and Mohamed S. Kamel, biological studies of *citharexylum quadrangulare* jacq. Family verbenaceae, Assiut Univ. 9th International Pharmaceutical Sciences Conference; Assiut, March 12th&13th, 2014.
5. Nada M. A. Abdel-Wahab, Ashraf N. E. Hamed, **Hany E. Khalil** and Mohamed S. Kamel, a pharmacognostical study of the leaf of *parmentiera cereifera* seem., family bignoniaceae, Assiut Univ. 9th International Pharmaceutical Sciences Conference; Assiut, March 12th&13th, 2014.

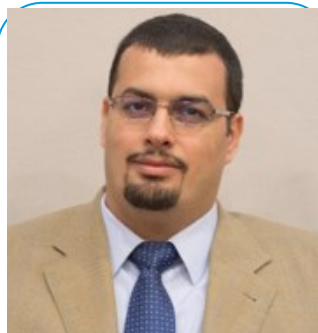
Research Highlights

I have gained an experience in a wide range of isolation of naturally occurring compounds from plants (Verbenaceae, Asteraceae, Acanthaceae, Proteaceae and Araliaceae) using normal and advanced tools such as column chromatography, **MPLC**, **HPLC** and **DCCC** with different stationary phases as well as interpretation of the isolated compounds by using Physical and chemical analyses, **IR**, **UV** and advanced techniques such as **EI**, **FAB/MS** in addition to **1- and 2-D NMR** procedures including **H-H COSY**, **H-H NOESY**, **HSQC**, **HMBC**.etc. during my Ph.D. studies in **Hiroshima University in Japan**.

In addition, I have gained an experience in **biological investigation** of the identified compounds and the extracts such as; antihyperglycemic, antioxidant, gastroprotective actions, **DPPH** assay, **Multi drug resistance** assay, **A549 cytotoxicity** assay, **anti-leishmanial** assay and routine antimicrobial activities.

Grants:

- ◆ *Egyptian Government Ph.D. Scholarship to Hiroshima Univ. Japan.*
- ◆ *Ministry of Higher Education, Egypt. 2007-2009*



Room Location : College of
Clinical Pharmacy,
Ph.: 035817175
Email : Maged789@hotmail.com

Date and Palm Research Center grant.

- ◆ Evaluating the therapeutic potential of water-soluble compounds extracted from *Phoenix dactylifera* (Date fruits) in myocardial infarction: Role of circulating progenitor cell, (Co-investigator)
- ◆ Estimating the potential of water soluble extract from *Phoenix dactylifera* (Date fruits) as a circulating progenitor cell enhancer: A possible drug discovery for myocardial infarction (under investigation)

Thesis supervision

*Phytochemical and micropropagation studies on the yellow hornpoppy (*Glaucium flavum*)*

12. Dr. Maged El-Sayed Mohammed

B.Sc. Pharmacy, M. Ph, Zagazig University, Egypt, Ph.D. University of Bristol, United Kingdom

ASSISTANT PROFESSOR, Pharmacognosy and Natural Product Chemistry

TEACHING EXPERIENCE : Teaching and laboratory experience for 10 years in Pharmacognosy, natural product chemistry, plant tissue culture and plant biotechnology for pharmaceutical production.

RESEARCH INTEREST :

1. Plant tissue culture techniques.
2. DNA manipulation, PCR amplification and DNA cloning in *E coli*, *Saccharomyces cerevisiae* and *Arabidopsis thaliana*.
3. Gateway technology for cloning and transferring of DNA fragments.
4. Heterologous expression of genes in bacteria, yeast, fungi and plants.

LIST OF PUBLICATION

1. **Mohamed ME** and Lazarus CM (2014) Production of prostanoids in the plant *Arabidopsis thaliana* *Phytochemistry* 102: 74–79
2. **Maged E. Mohamed**, Asmaa M. Arafa, Saeed Soliman and Sameeh I. Eldahmy (2014) Plant germination and production of callus from the yellow hornpoppy (*Glaucium flavum*): the first stage of micropropagation *Die pharmazie* 69: 1–6
3. Mohammed A. Khedr, Tamer M. Shehata and Maged **E. Mohamed** (2014) Repositioning of 2,4-Dichlorophenoxy acetic acid as a potential anti-inflammatory agent: *In Silico* and pharmaceutical formulation study. *European Journal of Pharmaceutical Sciences*, 65: 130–138
4. **Mohamed M E** (2014) Infection of *Eucalyptus camaldulensis* leaves with the gall wasp *Leptocybe invasa* alters its phytovolatile constituents *journal of essential oil research* under peer review .
5. Dalia I. Hamdan, Maged E. Mohamed, Rehab H. Abdulla, Sabah M. Mohamed and Assem M. El-Shazly (2013) Anti-inflammatory, insecticidal and antimicrobial activities and chemical composition of the essential oils of different plant organs from navel orange (*Citrus sinensis* (L.) Osbeck var. Malesy) grown in Egypt *Journal of Medicinal Plants Research* 7(18):1204-1215.
6. **Mohamed ME** and Lazarus CM (2009) Prostanoid production in *Saccharomyces cerevisiae* provides a novel assay for nonsteroidal anti-inflammatory drugs *FEMS Yeast Res* 9: 420-427.

7. Tatyana Savchenko, Justin W. Walley, E. Wassim Chehab, Yanmei Xiao, Roy Kaspi, Matthew F. Pye, **Maged E. Mohamed**, Colin M. Lazarus, Richard M. Bostock and Katayoon Dehesh (2010) Arachidonic Acid: An Evolutionarily Conserved Signaling Molecule Modulates Plant Stress Signaling Networks *Plant Cell* 22: 3193–3205
8. Mekky H, **Mohamed ME**, Lazarus CM, Power JB and Davey MR (2011) Biosynthesis of very long chain polyunsaturated fatty acids in the leafy vegetable chicory *Agricultural and food science* **20**: 327-340.
9. Dalia I. Hamdan, Maged E. Mohamed, Rehab H. Abdulla, Sabah M. Mohamed and Assem M. El-Shazly (2013) Anti-inflammatory, insecticidal and antimicrobial activities and chemical composition of the essential oils of different plant organs from navel orange (*Citrus sinensis* (L.) Osbeck var. Malesy) grown in Egypt *Journal of Medicinal Plants Research* 7(18):1204-1215.
10. El-Domiaty MM, Abdel Aziz EM, El-Shafae AM and **Mohamed ME** (2003) Improved HPLC Determination Of Glycyrrhizin In Licorice and Pharmaceutical Preparations *Bull. Fac. Pharm. Cairo Univ.* **41** 295-300.
11. El-Domiaty MM, Abdel Aziz EM, El-Shafae AM and **Mohamed, ME** (2003) Phenolic Constituents and Biological Activity of The Aerial Parts Of The Egyptian Licorice, *Zagazig J. Pharm. Sci.* **12** 14-23, 2003.

Conferences

1. Plant Transformation Technologies. Vienna, Austria, February 04-07, 2007 with poster and published abstract
2. Plants for Human Health in the Post Genomic Era in Helsinki, Finland, 26-29 August 2007 with a poster and published abstract.
3. Agrigenomic World Congress, Amsterdam Netherlands 29-30 September 2008 with the prize of the best poster and published Abstract.
4. Oral presentation on the School of Chemistry open day conference, University of Bristol 2008
5. Accepted abstract and poster in the 5th international conference of pharmaceutical and drug industries division, National research centre, Cairo, March, 2011
6. Accepted abstract and poster in the Trends in natural products research: Phytochemical society of Europe young Scientific meeting, in Kolymvari, Crete 12-15 June 2011
7. Oral presentation in the Faculty of Pharmacy First scientific conference, March 2011
8. Poster presentation in the Department of Pharmacognosy first scientific meeting November 2011.
9. Oral presentation in the 2nd Annual International Conference on Pharmaceutical Sciences, 5-8 May 2014, Athens, Greece
10. Accepted presentation in 13th IUPAC International Congress of Pesticide Chemistry, being organized by the AGRO Division of the American Chemical Society (ACS) during August 10-14, 2014 in San Francisco.

DSR (KFU) Projects :

- ◆ *Phytochemical and biological screening of essential oils from some aromatic plant families in the eastern area (Al-Ahsa) of Saudi Arabia, (PI)*
- ◆ *Evaluation of the effect of Arugula, Lupin and Sage oils on levels of different adipokines in obese rats, (Co-investigator)*
- ◆ *Interactions between the Red palm weevil (*Rhynchophorus ferrugineus*) and its host the date palm (*Phoenix dactylifera*): a Metabolomic study, (Co-I)*
- ◆ *Design and synthesis of novel phosphonate-containing molecules that could be used in the treatment of cancer, (Co-investigator)*
- ◆ *Subchronic administration of mitoxantrone and influence of inducing and inhibiting agents on the introduction of cardiotoxicity - A metabolite evaluation in mice, (Co-I)*

Training

- ◆ *Introduction to molecular biology techniques" a course of Plant Molecular Biology, in the Agriculture genetic engineering Research institute (AGERI): 27th November to 8th December 2004*
- ◆ *Diploma in genetic engineering form scientific informatics research academy (SIRA) from 18th December 2004 to 16th February 2004.*
- ◆ *Training for one month of genetic manipulation techniques in VACSERA genetic laboratories (March 2005)*



Room Location : College of
Clinical Pharmacy,
Ph.: 035898842
Email :
kvenugopalakn@hkfu.edu.sa

Award

- ◆ *Dorothy Whiteman Scholarship (2010)*
- ◆ *Profiling Alberta's Graduate Student Award (2010)*
- ◆ *Biochem Pharm Graduate Scholarship (2009).*
- ◆ *Taiho-Alberta Endowment Fund (2008)*
- ◆ *Dorothy Whiteman Scholarship (2008)*
- ◆ *Teaching Services Graduate Student Teaching Award (2008).*
- ◆ *Biochem Pharm Graduate Scholarship (2007).*
- ◆ *Best Graduate Student Poster Presentation, Faculty of Pharmacy (University of*
- ◆ *Alberta) Research Day (2006).*
- ◆ *Egyptian Government PhD scholarship (2006-2009).*

13. Dr.Wael Soliman

M.Pharm Cairo University, Cairo, Egypt & Ph. D, University of Alberta, Canada

ASSISTANT PROFESSOR, Medicinal Chemistry

TEACHING EXPERIENCE : 10 years of teaching medicinal chemistry, Self care and non-prescription Drugs and Pharmacy law and Ethics

RESEARCH INTEREST :

1. Synthesis of cyclohexane analogues of anticipated anticonvulsant and analgesic activities.
2. Synthetic organic chemistry, molecular dynamics simulations and molecular modelling in addition to studying biological and microbiological activities of peptides.

LIST OF PUBLICATIONS:

1. **Soliman W.**, Wang L., Bhattacharjee S., and Kaur K. (2011). Structure-Activity Relationships of an Antimicrobial Peptide Plantaricin S from Two-Peptide Class IIb Bacteriocins. *J Med. Chem.* **54**, 2399.
2. **Soliman W.**, Bhattacharjee S., and Kaur K. (2010). Adsorption of an antimicrobial peptide on self-assembled monolayers by molecular dynamics simulation. *J Phys. Chem. B.* **114 (34)**, 11292-302.
3. **Soliman W.**, Bhattacharjee S., and Kaur K. (2009). Interaction of an antimicrobial peptide with a model lipid bilayer using molecular dynamics simulation. *Langmuir.* **25 (12)**, 6591-95.
4. Bahgat M., Abou-Enein M.N., El-Azzouny A.A., Magharaby A., Ruppel A., and **Soliman W.** (2009). A cyclohexanecarboxamide derivative with inhibitory effect on *Schistosoma Mansoni* cercarial serine protease and penetration of mice skin by the parasite. *Acta Poloniae Pharmaceutica-Drug Research*, **66 (3)**, 333-40.
5. Kaur K., Sprules T., **Soliman W.**, Beleid R., and Ahmed S. (2008). Right-handed 14-helix in B3-peptides from L-aspartic acid monomers. *Biochim Biophys Acta.* **1784(4)**, 658-65.
6. **Soliman W.**, Bhattacharjee S., and Kaur K. (2007), Molecular dynamics simulation study of interaction between a class IIa bacteriocin and its immunity protein. *Biochim Biophys Acta.* **1774(8)**, 1002-13.
7. Aboul-Enein M.N., El-Azzouny A., Ragab F., **Soliman W.**, and Maklad Y. (2006), Synthesis and anticonvulsant activity of certain *N*-aralkyl-*N*-(1-substituted cyclohexyl) benzamides. *Scientia Pharmaceutica*, **74**, 1-19

Presentations and abstracts

1. **W. Soliman**, Liru Wang, Michael Stiles, Kamaljit Kaur. Design and Synthesis of Potent Bactericidal Peptides Based on the Class IIb Bacteriocin Plantaricin S. Canadian Chemistry Conference and Exhibition (CSC), Toronto, Ontario, June 2010. (Poster Presentation).
2. **W. Soliman**, S. Bhattacharjee. K. Kaur. Molecular Dynamics Simulations to Study Interaction between Class IIa Bacteriocin and Model Lipid Bilayer. Canadian Chemistry Conference and Exhibition (CSC), Toronto, Ontario, June 2010. (Poster Presentation).
3. **W. Soliman**, Liru Wang, Michael Stiles, Kamaljit Kaur. Design and Synthesis of Potent Bactericidal Peptides Based on the Class IIb Bacteriocin Plantaricin S. Faculty of Pharmacy Research and Development Day, November 2009 (Podium Presentation)
4. **W. Soliman**, S. Bhattacharjee. K. Kaur. Interaction of an Antimicrobial Peptide with a Model Lipid Bilayer Using Molecular Dynamics Simulation. Faculty of Pharmacy Research and Development Day, October 2008 (Poster Presentation)
5. **W. Soliman**, S. Bhattacharjee, K. Kaur. Molecular Dynamics Simulation of the Interaction of Peptides with Nanoscale Chemical Heterogeneities on a Planar Substrate. Canadian Chemistry Conference and Exhibition, Edmonton, Alberta, May 2008. (Oral Presentation)
6. **W. Soliman**, S. Bhattacharjee, K. Kaur. Interactions between Class IIa Bacteriocins and a Bacterial Cell Membrane Model: A Molecular Dynamics Simulation study. 11th Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting. Banff, Alberta, May 2008. (Poster Presentation)
7. **W. Soliman**, S. Bhattacharjee, K. Kaur. Interaction between a Class IIa Bacteriocin and a Bacterial Cell Membrane Model: a Molecular Dynamics Simulation Study. Faculty of Pharmacy Research and Development Day, October 2007 (Poster Presentation)
8. **W. Soliman**, S. Bhattacharjee, K. Kaur. MD Simulation of Peptide-peptide Interaction in a Hydrated Bilayer System. Faculty of Pharmacy Research and Development Day, October 2006 (Poster Presentation)
9. **W. Soliman**, K. Kaur, Molecular Dynamics Simulations of Interaction between Carnobacteriocin B2, a Type IIa Bacteriocin, and its Immunity Protein, Peptide-peptide Interaction in Hydrated Bilayer System, 89th Canadian Chemistry Conference and Exhibition, Halifax, NS, Canada, May 2006. (Poster Presentation)
10. **W. Soliman**, S. Bhattacharjee, K. Kaur. Molecular Dynamics Simulations of Peptide-peptide Interaction in Lipid/Water System, 6th International Conference of the Canadian Proteomics Initiative, Edmonton, AB, Canada, May 2006. (Poster Presentation)
11. **W. Soliman**, A.A. El-Azzouny, F.A. Ragab, Y.A. Maklad, M.N. Aboul-Enein. Synthesis of Certain 1,1-Disubstituted Cycloalkanes Having Analgesic and Anticonvulsant Potential, The 2nd International Conference of Pharmaceutical & Drug Industries Division, Cairo, Egypt, March 2005. (Oral Presentation)

DSR (KFU) Project : Design, Synthesis and Biological Evaluation of a Novel Series of Celecoxib Prodrug Possessing Nitric Oxide Donor Moiety, 64400 SAR, 2014-2015



Room Location : College of
Clinical Pharmacy,

Ph.: 035898842

Email :
kvenugopala@kfu.edu.sa

Research Grant

- ◆ *Design, synthesis and characterization of pyrimidine molecular scaffolds for anti-TB activity, 2014.*
- ◆ *Design, synthesis and characterization of novel pyrimidine analogues as antitubercular agents against MDR and XDR strains, 2012.*
- ◆ *Design and synthesis of natural cyclic depsipeptide analogues as antitubercular agents against MDR and XDR strains 2010.*

13. Dr.Venugopala K. N

M.Pharm & Ph. D, Rajiv Gandhi Uni. Health Sciences, India

ASSISTANT PROFESSOR, Pharmaceutical Chemistry

TEACHING EXPERIENCE : 13 years of teaching medicinal chemistry, pharmaceutical organic chemistry and biochemistry

RESEARCH INTEREST :

1. Design and multi-step synthesis of heterocyclic compounds for MDR and XDR-TB, antimicrobial, analgesic, anti-inflammatory, antimosquito, and antioxidant activities.
2. Design and synthesis of natural cyclic depsipeptide analogues for MDR and XDR-TB by solid and solution phase peptide synthesis method and current methods of isolation and characterization of products.
3. Crystallography and polymorphism of pharmacologically active heterocyclic compounds

LIST OF PUBLICATIONS:

1. Piyush P, **Venugopala KN**, Odhav B, Chopra D. Polymorphism in two biologically active dihydropyrimidinium hydrochloride derivatives: quantitative inputs towards the energetics associated with crystal packing. *Acta Cryst* 2014;B70:681-696.
2. Piyush P, **Venugopala KN**, Odhav B, Chopra D. Quantitative analysis of intermolecular interactions in 7-hydroxy-4-methyl-2H-chromen-2-one and its hydrate. *Proc Natl Acad Sci India, B* 2014;84(2):281-295.
3. **Venugopala KN**, Manjula K, Nayak SK, Bhat KS, Jayashankaragowda PV, Krishna RC, Raquel MG, Odhav B. Synthesis and antimosquito property of 2,6-substituted benzo[d]thiazole and 2,4-substituted benzo[d]thiazole analogues against *Anopheles arabiensis*. *Eur J Med Chem* 2013;65:295-303.
4. **Venugopala KN**, Rashmi V, Odhav B. Review on natural coumarin lead compounds for their pharmacological activity. *BioMed Research International* 2013;963248.v1:1-15.
5. **Venugopala KN**, Nayak SK, Pillay M, Renuka P, Coovadia YM, Bharti O. Synthesis and antitubercular activity of 2-(substitutedphenyl)benzyl-amino)-6-(4-chlorophenyl)-5-(methoxycarbonyl)-4-methyl-3,6-dihydropyrimidin-1-ium chlorides. *Chem Biol Drug Design* 2013;81:219-227.

6. **Venugopala KN**, Albericio F, Coovadia YM, Kruger HG, Maguire GEM, Pillay M, Govender T. Total synthesis of a depsidomycin analogue by convergent solid phase peptide synthesis and macro-lactonization strategy for anti-tubercular activity. *J Pep Sci* 2011;17:683-689.
7. Nayak SK, **Venugopala KN**, Chopra D, Row TNG. Insights in to conformational and packing features in a series of aryl substituted ethyl-6-methyl-4-phenyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates. *CrystEngComm* 2011;13:591-605.
8. Mahapatra S, **Venugopala KN**, Row TNG. A device to crystallize organic solids: ciprofloxacin, medazolam and ofloxacin as targets. *CrystGrowthDes* 2010;10:1866-1870.
9. Neithnadka PR, **Venugopala KN**, Govender T, Manuprasad BK, Sheena S, Pirama NA. Design, synthesis, characterization, and anti-bacterial activity of {5-chloro-2-[(3-substitutedphenyl-1,2,4-oxadiazol-5-yl)-methoxy]-phenyl}-(phenyl)-methanones. *Eur J Med Chem* 2010;45(6):2677-2682.
10. Nayak SK, **Venugopala KN**, Chopra D, Vasu, Row TNG. Effect of substitution on molecular conformation and packing features in a series of aryl substituted ethyl-6-methyl-4-phenyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates. *CrystEngComm* 2010;12,1205-1216.

Presentations and abstracts

1. **Venugopala, KN**, Chalannavar, RK, Odhav B. Anti-mosquito properties of novel synthetic 3,6-dihydropyrimidine analogues. 6th Brazilian Symposium on Medicinal Chemistry, Hotel Continental, Canela, Brazil. October 28 - 31st, 2012.
2. Chalannavar R.K., **Venugopala K.N.**, Baijnath H and Odhav B. Effect of Psidium spp. extracts on malaria causing mosquitoes *Anopheles arabiensis*. (MCNP 52) *BrazMedChem* 2012, 28th – 31st October 2012, Canela Brazil.
3. Girija CR, **Venugopala KN**, Noor Shahina Begum, Srinivasa Murthy M. Structure of α , α' -bis-(*p*-dimethylaminobenzylidene)-*g*-methylcyclohexanone. 38th National Seminar on Crystallography, University of Mysore, Manasagangothri, Mysore. February 11 - 13th, 2009.
4. Vasu KA, Nirmala, Nagappa Shetty, **Venugopala KN**. Crystal and molecular structure of 5-[ethoxy (hydroxy)methyl]-6-hydroxy-4-(4-methoxyphenyl)-3,4-dihydropyrimidine-2(1*H*)-thione. 38th National Seminar on Crystallography, University of Mysore, Manasagangothri, Mysore. February 11 - 13th, 2009.
5. Aakanksha Joshi, Arun Pathak, **Venugopala Katharigatta Narayanaswamy**, Kalpana Devi, Rao GK. Sanjay Pai. Synthesis of new Biologically active 2,3,8a-tetrahydro-(1*H*)-5-substituted arylthiazolo-[3,2-*a*]pyrimidine-3-one derivatives and their antibacterial and antioxidant activity. 60th Indian Pharmaceutical Congress, New Delhi, December 12 - 14th, 2008.
6. Kalpana Devi, **Venugopala KN**, Gopal Krishna, Sanjay Pai PN. Synthesis and characterization of substituted 3, 4-dihydropyrimidine-2(1*H*)-thiones for their biological activity. 60th Indian Pharmaceutical Congress, New Delhi, December 12 - 14th, 2008.
7. Arun Pathak, Kalpana Devi, **Venugopala KN**, Gopal Krishna Rao, Sanjay Pai PN. Synthesis and characterization of substituted 3,4-dihydropyrimidine-2(1*H*)-ones/thiones as bioisosteres for their biological activities. 60th Indian Pharmaceutical Congress, New Delhi, December 12 - 14th, 2008.



Room Location : College of
Clinical Pharmacy,
Ph.: 0135817175
Email :
ctratratt@hkfu.edu.sa

Research Grant

- ◆ *Preparation and development through computer-aided molecular drug design of isoxazolidine nucleosides, and isoxazolidinyl and nucleosidyl podophyllotoxin derivatives with potential anti-viral and anticancer activities. KACST, Co-I, March 2011.*
- ◆ *Rational development of novel ellipticines that target p53 deficiency by activation of p73 and their delivery using nano-technology for cancer therapy. KACST, Co-I, September 2011.*
- ◆ *Design, synthesis and biological evaluation of novel psorospermin analogs that rely on topoisomerase II-directed alkylation of DNA and activity against drug-resistant tumors. KACST, Co-I, March 2012.*

14. Dr.Christopher Tratratt

Ph. D Université René Descartes, Paris V, France

ASSISTANT PROFESSOR, Pharmaceutical Chemistry

TEACHING EXPERIENCE : 13 years of teaching medicinal chemistry, pharmaceutical organic chemistry and Pharmaceutical Analytical Chemistry

RESEARCH INTEREST :

1. Design and synthesis of novel heterocyclic compounds as anticancer agents
2. Multi-step organic syntheses at the forefront of the discovery of active compounds
3. Solid phase synthesis for combinatorial chemistry application
4. Computer-aided molecular modeling drug design

LIST OF PUBLICATIONS:

1. A convenient route to quinolone-fused imides and lactams: synthesis of pyrrolo[3,4-b]quinoline-3,9-diones and 1,3,9-triones by oxydation of indole derivatives. C. Tratratt, S. Giorgi-Renault, H.-P. Husson, *Synlett*, **1998**, 1071.
2. Oxidative cleavage of indole- α -lactones with *m*-chloroperbenzoic acid: First Synthesis of Spiroindoline-2-one- α -lactones. C. Tratratt, S. Giorgi-Renault, H.-P. Husson, *J. Org. Chem.*, **2000**, 65, 6773.
3. Palladium-Catalyzed N-arylation of Tetrahydroquinoline and Tetrahydroisoquinoline with Arylhalides. J. Meneyrol, P. Helissey, C. Tratratt, S. Giorgi-Renault, H.-P. Husson, *Synthetic Communications*, **2001**, 31, 987.
4. A Multicomponent Reaction for the One-Pot Synthesis of 4-aza-2,3-dehydropodophyllotoxin and derivatives. C. Tratratt, S. Giorgi-Renault, H.-P. Husson, *Organic Letters*, **2002**, 19, 3187.
5. A'-Ketoamino ester as valuable tool for the asymmetric construction of substituted homopiperic esters. Application to a synthesis of (+)-Calvine. S. Rougnon-Glasson, C. Tratratt, J.-L. Canet, P. Chalard, Y. Troin, *Tetrahedron Asymmetry*, **2004**, 1562.
6. New Approach of Ethyl Substituted Isoquinoline-3 Carboxylate Synthesis Michelyne Haroun, Mohamad Abdul-Ghani, Christophe Tratratt, *Jordan Journal of Chemistry*, **2009**, 4, 325.

7. Molecular modeling design, synthesis and cytotoxic evaluation of certain substituted 2-(3,4,5-triacetoxybenzoylamino)benzo[d]thiazole and 2-(galloylamino)benzo[d]thiazole derivatives having potential topoisomerase -I inhibitory activity. Mohamed A.H. Ismail, Christophe Tratrat, Michelyne Haroun. Journal of Enzyme inhibition and Medicinal Chemistry, online on September **2012**.

Presentations and abstracts

1. Ninth fechem Conference on Heterocycles in Bio-Organic Chemistry, Aussois. May 1998, A convenient route to quinolone-fused imides and lactams: synthesis of pyrrolo[3,4-b]quinoline-3,9-diones and 1,3,9-triones by oxydation of indole derivatives.
2. 35th International Meeting on Medicinal Chemistry. Rouen, France. July 1999, Synthesis and reactivity studies of pyrroloquinolines: pyrrolo[3,4-b]quinoline-1,3,9-triones, 1,9-diones and 3,9-diones.
3. 37th International Meeting on Medicinal Chemistry. Tours, France. July 2001, Les 4-azapodophyllotoxines: nouvelles molécules à forte activité antitumorale, inhibitrices de la polymérisation de la tubuline.
4. 17th French-Japanese Symposium on Medicinal and Fine Chemistry. Tohoku University, May 2004, A-Ketoamino ester as valuable tool for the asymmetric construction of Homopipericolic esters.
5. 11th IBN SINA International Conference on Pure and Applied Heterocyclic Chemistry, Faculty of Science and Faculty of Pharmacy, Ain Shams University, Cairo, 13-16, December 2008, Efficient Synthesis of Ethyl 1,4-Disubstituted Isoquinoline-3-Carboxylate by Regioselective Cross-Coupling Reactions.
6. The Fourth International Chemistry Conference, King Saud University, KSA, November 2011, Synthesis and Biological Evaluation of New Aromathecin Analogues.
7. International Conference on Global Trends in Pure and Applied Chemical Sciences, Udaipur (Rajasthan) India, March 2012, Design, Synthesis and Antitumor Evaluation of New Camptothecin Analogues
8. 33rd National Medicinal Chemistry Symposium, Faculty of Pharmacy, University of Arizona, Tucson, May 2012, A Novel Series of Aromathecins as Antitumor Agents.

Patents:

New tricyclic quinoline derivatives useful as anticancer agents, H.-P. Husson, S. Giorgi-Renault, C. Tratrat, G. Atassi, A. Pierre, P. Renard, B. Pfeiffer.

FR 2801310 May 2001; EP 1103554 May 2001; JP 2001151756 June 2001; KR 10200000070290 June 2001; HK 1036983 January 2002; US 6548515 April 2003; CA 2326710 June 2006.

Room Location :*College of Clinical Pharmacy,**Ph.: 03-5899787**Email : nzaher@kfu.edu.sa***DSR-KFU Research grants**

◆ *Design, Synthesis, SAR and Anti-breast Cancer Potential of New Thymoquinone Analogs as PPAR γ Ligands. 2011.*

◆ *Augmentation effects of novel naringenin analogues and ciprofloxacin as inhibitors for NorA efflux pump (EPs) and pyruvate kinase (PK) against MRSA. 2013.*

15. Dr. Nashwa Hafez Mohamed Zaher*B. Pharm, Ain Shams University M. Pharm, Ph.D, Cairo University, Egypt***ASSISTANT PROFESSOR Medicinal chemistry**

TEACHING EXPERIENCE : 6 years teaching experience in teaching medicinal chemistry related courses

RESEARCH INTEREST :

1. Design and synthesis of new compounds according to molecular modeling and docking studies to obtain new drugs acting as anticancer, radioprotective and radiosensetizers. Also antimicrobial and anti-inflammatory agents.
2. Design and Semisynthetic procedures for obtaining new analogues of already present natural active constituents to enhance therapeutic effectiveness against different cancerous diseases.
3. In-vitro and in-vivo anticancer screening.
4. In-vivo antioxidant screening.

LIST OF PUBLICATIONS:

1. El-Gazzar M. G., **Zaher N. H.** And El-Tablawy S. Y Morphological changes of some pathogenic microbial strains induced by novel thiadiazole derivatives. *Medicinal Chemistry Research*, **2013**.
2. Mohamed A. Shaaban, Mostafa M. Ghorab, Helmy I. Heiba, Mona M. Kamel, **Nashwa H. Zaher**, Mohamed I. Mostafa Novel Thiophenes, Thienopyrimidines, and Triazolothienopyrimidines for the Evaluation of Anticancer and Augmentation Effects of γ -Radiation. *Archiv der Pharmazie* **343,(7)**,404–410, **2010**
3. M.M Ghorab, A.N.Osman, E.Noaman, H.I.Heiba, **N.H.Zaher**. Synthesis of some new sulfur heterocyclic compounds as potential radioprotective & anti-cancer agents. *Phosphorus, Sulfur, and Silicon*,181: 1935-1950, **2006**.
4. M.M Ghorab, A.N.Osman, E.Noaman, H.I.Heiba, **N.H.Zaher** .Utility of isothiocyanato thiophenes in synthesis of thieno[2,3-d] pyrimidine derivatives as possible radioprotective & anticancer agents. *Phosphorus, Sulfur, and Silicon*,181: 1983-1996, **2006**.

16. Dr. Michelyne Haroun

Ph.D. Université René Descartes, Paris V, France

ASSISTANT PROFESSOR, Pharmaceutical Organic Chemistry

TEACHING EXPERIENCE : 12 Years of teaching experience in Pharmaceutical Organic Chemistry, analytical chemistry.

RESEARCH INTEREST :

1. Design, synthesis and biological evaluation of novel heterocyclic compounds as anticancer agents
2. Multi-step organic syntheses at the forefront of the discovery of active compounds.
3. Computer-aided drug design molecular modeling

LIST OF PUBLICATIONS:

1. Molecular modelling design, synthesis and cytotoxic evaluation of certain substituted 2-(3,4,5-triacetoxybenzoylamino)benzo[d]thiazole and 2-(galloylamino)benzo[d]thiazole derivatives having potential topoisomerase-I inhibitory activity. Mohammed Abdel Hamid Ismail, Christophe Tratat, Michelyne Haroun, *Journal of Enzyme Inhibition and Medicinal Chemistry*, on line since September 2012.
2. Multiclass Analysis on Repaglinide, Flubendazole, Robenidine Hydrochloride and Danofloxacin Drugs. Taleb T. Al-Nahary, Mohamed Abdel Nabi El-Ries, Gehad G. Mohamed, Ali Kamal Attia, Yahia Nassser Mabkhot, Michelyne Haroun, Assem Barakat, *Arabian Journal of Chemistry*, 2013, 6, 131-144.
3. New Approach of Ethyl Substituted Isoquinoline-3-Carboxylate Synthesis Michelyne Haroun, Mohamad Abdul-Ghani, Christophe Tratat, *Jordan Journal of Chemistry*, 2009, 4 (4), 325.
4. Dioxypyhenazines as Potential Anti-Cancer Agents. Michelyne Haroun, Proceedings of the 5th Congress Research Outlook in the Arab World, SRO5, Scientific Innovation and Sustained development, Medicine and Pharmacology, 23-25 2008, Fez-Morocco.

*Room Location : College of Clinical Pharmacy,
IP Phone : 03589823
Email : @kfu.edu.sa*

Research: Principal investigator in the project "Design, Synthesis, and Biological Evaluation of Novel Psorospermin Analogs That Rely on Topoisomerase II—Directed Alkylation of DNA and Activity against Drug-Resistant Tumors" funded for 2 million riyals by NPSTI (KACST).

Principal investigator in the project: "Rational Development of Novel Ellipticines That Target p53 Deficiency by Activation of p73 and Their Delivery Using Nanotechnology for Cancer Therapy" funded for 2 million riyals by NPSTI (KACST).

We don't know half of one millionth of 1 percent of anything. - Thomas Alva Edison

PRESENTATIONS AND ABSTRACTS

1. "Design, Synthesis and Antitumor Evaluation of New Camptothecin Analogues", The 12th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry Luxor, Egypt, Feb, 16-19, 2013.
2. " Synthesis and Cytotoxic Screening of New Aromathecins ", The First International Conference on Science Diplomacy and Developments in Chemistry, Alexandria, Egypt, Nov. 24-26, 2012.
3. "A Novel Series of Aromathecins as Antitumor Agents", 33rd National Medicinal Chemistry Symposium, Faculty of Pharmacy, University of Arizona, Tucson, USA, May 2012.
4. "Design, Synthesis and Antitumor Evaluation of New Camptothecin Analogues", International Conference on Global Trends in Pure and Applied chemical Sciences", Udaipur (Rajasthan) India, March 2012.
5. "Synthesis and Biological Evaluation of New Aromathetin Analogues", The 4th International Chemistry Conference, King Saud University, Ryad, KSA, November 2011.
6. "Synthesis and pharmacological studies of trifunctional combilexins where a ligand of the minor groove is coupled to two intercalating chromophores", *The 4th International Meeting On Molecular Chemistry and Development "RICMD4"*, Marrakech, November 2010.
7. "Efficient Synthesis of Ethyl 1,4-Disubstituted Isoquinoline-3-Carboxylate by regioselective Cross-Coupling Reactions", *11 Ibn Sinaa International Conference on Pure and Applied Heterocyclic Chemistry*, Faculty of Science and Faculty of Pharmacy, Ain Shams University, Cairo, December 2008.
8. "Dioxyphenazines as Potential Anti-Cancer Agents", 5th Congress Research Outlook in the Arab World, SRO5, Scientific Innovation and Sustained development, Medicine and Pharmacology, October 2008, Fez-Morocco, Conference, Proceedings.
9. "Design, Synthesis and Pharmacological Evaluation of New Heterocyclic Compounds as Novel Anticancer Drugs", *International Conference on Research Trends in Science and Technology*, Lebanese American University, Lebanon, March 2005.
10. "Synthèse de nouveaux ligands dans lesquels la nétropsine est couplée à deux chromophores". *14 Journée Franco-Belge de Pharmacochimie*, Lille, May 2000.
11. "Nouvelle synthèse de l'acide 5,10-dioxyphénazine-2 carboxylique", *Journée de Chimie Organique et Chimie Organique-Biologique de la Montagne-Sainte-Genève*, Paris, March 2000.

Reviewer Journals:

Asian Journal of Pharmaceutics

African Journal of Pharmacy and Pharmacology

Journal of Young Pharmacists

17. Dr. Nancy Safwat Abd El-Daium Younis

B. Pharmacy, M. Pharmacy & Ph. D University of Zagazig, Egypt

ASSISTANT PROFESSOR

TEACHING EXPERIENCE : Teaching Physiology and related courses

RESEARCH INTEREST :

1. Diabetes and its complications
2. Stroke and related disorders
3. Tool like receptor signaling cascade
4. Cardiovascular pharmacology and pharmacotherapy

LIST OF PUBLICATIONS:

1. Barakat W, Safwet N, El-Maraghy NN, Zakaria MN Candesartan and glycyrrhizin ameliorate ischemic brain damage through down regulation of the TLR signaling cascade. European Journal of Pharmacology, Volume 724, 5 February 2014, Pages 43–50.

Presentations and Abstracts

1. Oral presentation in the Faculty of Pharmacy second scientific conference, March 2013
2. Poster presentation in the Department of Pharmacology second scientific meeting November 2013.

Research Grants Received

- ◆ British heart foundation (BHF): in the department of Physiology and Pharmacology, School of Medical Sciences, University of Bristol, United Kingdom from March 2007 to March 2009.

Project name : Functional investigations of Mitsugumin23, a novel cation channel of cardiac sarcoplasmic reticulum

*Room Location : College of
Clinical Pharmacy,
Ph.: 035817175
Email: nsafwat@kfu.edu.sa*

◆ *American Board
Pharmacotherapy spe-
cialist in July 2014*

◆ *Clinical practice in
pharmacotherapy in
the Zagazig university
hospitals*

Room Location :

College of Clinical Pharmacy,

Ph.: 03-5899833

Email : Helsewedy@kfu.edu.sa

18. Dr. Heba Sadik Tawfek EL Sewedy

B. Ph. & M. Ph (Pharmaceutics) Zigazig University, Egypt

LECTURER, Pharmaceutics

TEACHING EXPERIENCE : Teaching Physical Pharmacy, Fundamentals of Pharmaceutics and related courses

RESEARCH INTEREST :

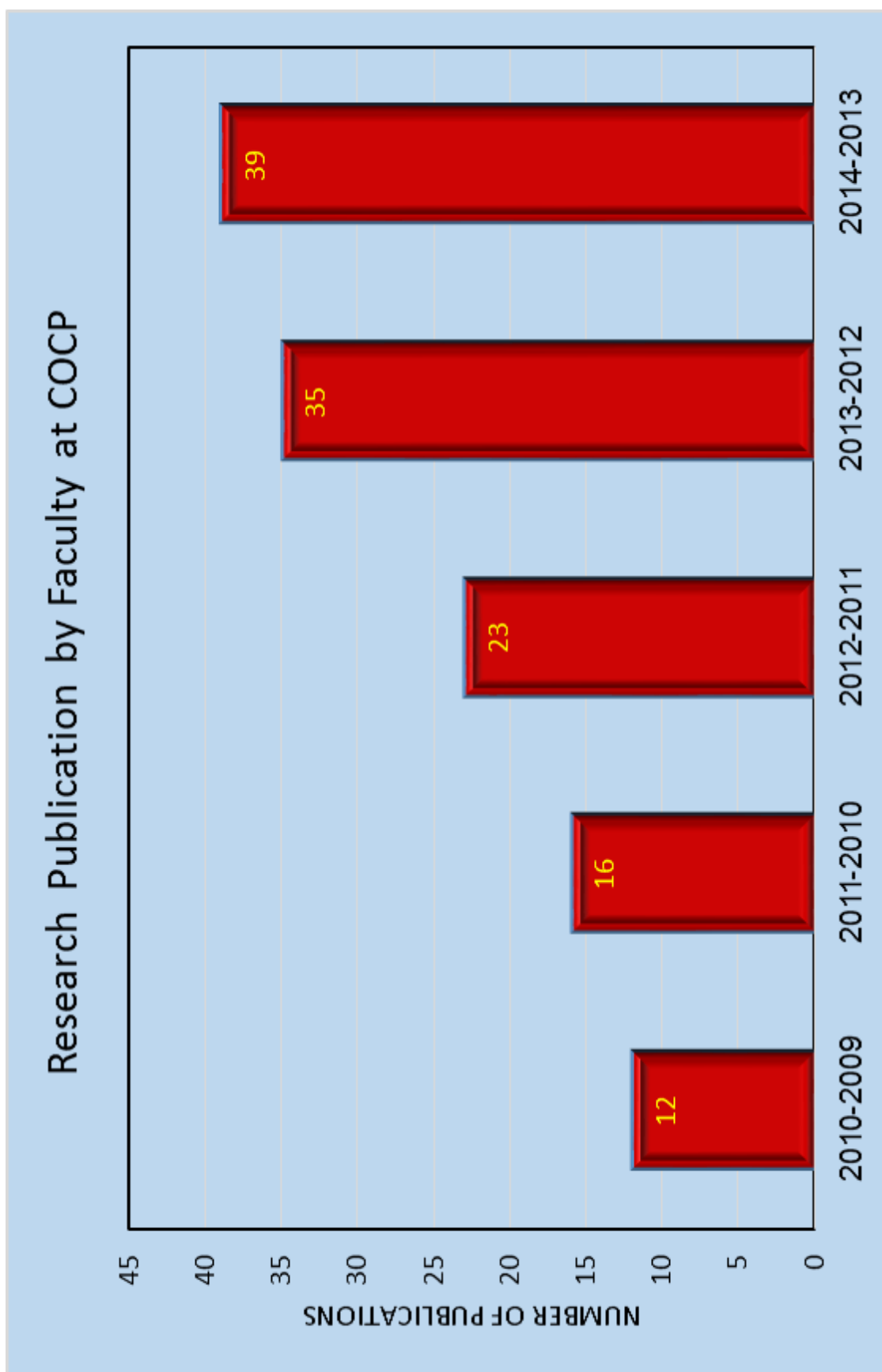
1. Formulation and evaluation of different pharmaceutical dosage forms.
2. Bioavailability and Pharmacokinetics analysis
3. Target Drug Delivery designs and evaluation

LIST OF PUBLICATIONS:

1. **Heba S. Elsewedy** . Mahmoud A. Mahdy and Mahmoud M. Ibrahim. In-Vitro And In-Vivo Evaluation Of Lornoxicam Transdermal Patches As Promising Delivery System. Pharma Science Monitor, Vol - 4, Issue - 4, 2013.

PRESENTATIONS AND ABSTRACTS

1. **Heba S. Elsewedy**, Mahmoud M. Ibrahim & Mahmoud A. Mahdy. Transdermal patches as promising delivery systems for lornoxicam. Fuc International Conference on Pharmaceutical Technologies (ICPT). 2012, Cairo, Egypt.
2. **Heba S. Elsewedy**, Mahmoud M. Ibrahim and Mahmoud A. Mahdy. Formulation and Evaluation of Meloxicam in Various Topical Pharmaceutical Preparations. Poster presentation, the 29th meeting of Saudi Biological Society, Dammam, Saudi Arabia.





*Room Location : College of
Clinical Pharmacy,
Room No : 1027
Ph.: 035899886
Email :
srasool@kfu.edu.sa*

Workshops:

*The 2nd Sino-German Symposium on Hepatology
"Viral Hepatitis, from basic research to clinical application" May 18-19 2007, Wuhan, Hubei, PR China*

National Conference of Biotechnology Society of PR China, Dec 5-6 2006, Wuhan, Hubei, PR China

Projects submitted to KACST

Syed G H A, Sahibzada Tasleem R, Abdullah Al J, Design and fabricate Sulfur doped Zinc Oxide (S-doped ZnO) array-nanorods based biosensor for glucose detection

Syed GHA, Abdullah Al Xintang H, Sahibzada Tasleem R, Design and Fabricate S-doped ZnO based Exhaled Breath Biosensors

1. Dr. Sahibzada T. Rasool

MBBS, University of Punjab, MA, University of Scranton, USA, PhD, Wuhan University, China

ASSISTANT PROFESSOR , MICROBIOLOGY AND IMMUNOLOGY

TEACHING EXPERIENCE : 11 years of experience in teaching biochemistry, microbiology, molecular biology, immunology,

RESEARCH INTEREST : Viruses disrupt immune system and among various other aberrations, expression of several immunologically important cytokines is also altered during viral infections. My research is focused on elucidation of the interplay between viruses and the novel cytokines. On one hand I am interested in finding the effects of viruses on interleukins while on the other hand I am also keen to explore the mechanisms through which these cytokines affect different viruses.

LIST OF PUBLICATIONS:

1. Rubab Satti, Farah Mustafa, Muhammad Imran Khan, Tahmina Sultana Haq, Ziad Umar Khan, Muhammad Zubair, Sahibzada Tasleem ur Rasool, Maleeha Azam, Muhammad Ajmaland Raheel Qamar, Prevalence of Hepatitis C Virus in Urban Ghettos of Twin Cities, Pakistan J. Zool., vol. 44 (4), pp. 937-943, 2012.
2. Afzal H. Asif , Sahibzada T. Rasool and Tahir M Khan, Pyridoxal Phosphate a Possible Intervention to Prevent Aminoglycoside Induced Electrolyte Imbalance, J Clinic Res. Bioeth 2012, 3:1
3. Tahir Mehmood Khan, Mohamed Azmi Hassalib, Sahibzada Tasleem Rasool, A study assessing the impact of different teaching modalities for pharmacy students in a Cardio-Pulmonary Resuscitation (CPR) course. Saudi Pharmaceutical Journal (2012).
4. Zhu C, Zhang R, Liu L, Rasool ST, Mu Y, Sun W, Hao Q, Liu F, Zhu Y, Wu J. Hepatitis B virus enhances interleukin-27 expression both in vivo and in vitro. Clin Immunol. 2009 Apr; 131(1):92-7.
5. Mukhtar MM, Li S, Li W, Wan T, Mu Y, Wei W, Kang L, Rasool ST, Xiao Y, Zhu Y, Wu J. Single-chain intracellular antibodies inhibit influenza virus replication by disrupting interaction of proteins involved in viral replication and transcription. Int J Biochem Cell Biol. 2009, 41(3): 554-60
6. N. Sree Harsha, Kumar GS, Mohammed S. Al-wesali Sahibzada Tasleem Rasool Farag Ali Saleh Ibrahim " Exploring the Anti-leishmaniasis activity of Phoenix dactylifera (Date Palm)" Grant No.10030, Year 2009. King Faisal University, Dean Ship of Scientific Research, Al-Ahsa, Saudi Arabia. Pharmacologyonline 3: 791-799 (2009).
7. Syed Ghazanfar Hussain,, Sahibzada T. Rasool et al. "Effects of temperature on ZnO nano- and microspheres: synthesis and optical properties" International Journal of Nanoparticles 2(1-6) 2009 PP 443 - 450.
8. Sibghatullah Sangi , Sree Harsha, Sahibzada Tasleem-ur-Rasool, Afzal Haq Asif Formulation and evaluation of mucoadhesive Nigella Sativa and Olive oils for vaginal infection Der Pharmacia Lettre, 2011, 3(2):39-46

9. Wei Li, Yan Liu, Muhammad Mahmood Mukhtar, Rui Gong, Ying Pan, Sahibzada T Rasool, and others, "Activation of Interleukin-32 Pro-inflammatory Pathway in Response to Influenza A Virus Infection" PLoS ONE. 2008 ;3 (4):e1985
10. Muhammad Sahibzada T Rasool and others, "Increased level of IL-32 during Human Immunodeficiency Virus infection suppresses HIV replication" Immunology Letters 117 (2008) 161–167
11. Mahmood Mukhtar, Sahibzada T Rasool and others, "Origin of highly pathogenic H5N1 Avian influenza virus in China and genetic characterization of donor and recipient viruses" Journal of General Virology (2007), 88, 3094-3099
12. S T Rasool, et al. "Malathion, a pharmacological and toxicological review", Medical Forum, July 2004.
13. A. Hamid, A. Salaam, A.H. Asif, Shabir, R.Firdaus, T. Rasool, Syed Mudassar "Effect of Exercise on Body weight and Blood Pressure" Medical Forum, September 2004
14. A. Hamid, A. Salaam, A.H. Asif, Shabir, R.Firdaus, T. Rasool, Syed Mudassar "Effects of Exercise on Glucose, Lipid profile and Apo-Protein B Medical Forum" September 2004

CONFERENCE PRESENTATIONS.

1. Syed Ghazanfar Hussain, Sahibzada T. Rasool et al "Synthesis, properties morphological and optical of highly S-doped ZnO flower-like nanostructures" 4th Saudi Science conference 21- 24 March, 2010, at Al-Madinah Al-Munawwarah, KSA.
2. Sahibzada T Rasool, Jianguo Wu, Ying Zhu. "Interplay between Interleukin-32 and Human Immunodeficiency Virus". Frontiers In Immunology Research 2008 International Conference, Florence, Italy (July 22-26, 2008)
3. Syed Ghazanfar Hussain, Deming Liu , Sahibzada-T-Rasool et al Morphological and optical properties of ZnO nanoparticles and porous Microspheres" The 2nd Technology and Innovation for Sustainable Development Conference, January 28-29,2008 Khon Kaen, Thailand.
4. Syed Ghazanfar Hussain, Sahibzada-T-Rasool et al, "Synthesis and optical properties of heterostructured ZnO:S/ZnO nanorotors" International Conference on Smart Manufacturing Application (ICSMA 2008) April. 9-11, 2008 in KINTEX, Gyeonggi-do, Korea.
5. Sahibzada T Rasool et al. "Comparison of IL-32 and IL-27 expression in the sera of HIV infected patients and healthy individuals" The 2nd Wuhan International Symposium on Modern Virology, Division of Virology, Chinese Society for Microbiology, Wuhan, China, October 26-30, 2007
6. Huma Tooba, Naila Asif, Tasleem Rasool, et al " Routine HCV PCR Screening of Donated Blood" Oral Presentations at 1st National Conference on Infectious Diseases, 19-21 March, 2004, Islamabad, Pakistan.

Experimental Skills

Biochemical and Molecular

Biology

E. coli transformation, isolation and purification of plasmid and chromosome DNA, total RNA and mRNA; PCR technique such as RT-PCR and over-lap PCR; site-directed mutagenesis. Expression and purification of recombinant protein in E coli, Preparation of polyclonal antibody.

Cellular Experiment

Cell culture, skilled at 293, 293T, Hela cells , Jurkat T cells, U251, U937 cells etc. MTT cytotoxicity assay, Cell transient transfection. Detection of Protein expressing by SDS-page, Western Blot , ELISA and Immuno-Fluorescence. Gene knock down with RNAi. Test protein-protein interaction with Mammalian Two-Hybrid Assay, Co-localization and immuno-precipitation in vivo.

Virus Experiment

Package, isolation and purification of recombinant adenovirus and Human Immunodeficiency Virus with 293T cells.

Bioinformatics

Familiar with Vector and DNASIS software for both primer designing and DNA, protein analysis; familiar with GeneBank web sites to carry out all kinds of analysis .



*Room Location : College of
Clinical Pharmacy,*

Ph.: 03589905

Email :

omohafez@kfu.edu.sa

*Supervising master
course students, in pro-
jects dealing with, Hepato-
protective activity, Hepa-
tocolellular Carcinoma , pso-
riasis , on extrahepatic
cancer , Apoptosis and
Autophagy activity*

2. Dr.Omar Mohafez

B.Sc. AL- Azhar Univ., Cairo, M. Sc. Assiut Univ., Ph.D. Toyama Univ., Japan

ASSISTANT PROFESSOR, BIOCHEMISTRY & MOLECULAR BIOLOGY

TEACHING EXPERIENCE : .15 years in teaching Molecular biology,
Basic Medical and Clinical Biochemistry

RESEARCH INTEREST :

1. Gene expression.
2. Exploring of an early marker for Hepatocellular carcinoma.
3. Screening of natural and synthetic compounds for its anti-oxidant and anticancer activity.

LIST OF PUBLICATIONS:

1. Ramadan A.M. Hemeida and **Omar M. M. Mohafez**: Curcumin attenuates methotrexate-induced hepatic oxidative damage in rats, *Journal of the Egyptian Nat. Cancer Inst.*, Vol. 20, No. 2, June: 141-148, (2008).
2. Ghada M. Galal, Al-Shimaa A. Baker, Nagwa S Ahmed, Mohamed A. Abd El-Aziz, **Omar M.M. Mohafez**, Lotfy H. Abou-Dahab, Usama A. Arfa and Mona F.Al-Karn: Biochemical changes in serum levels of ghrelin and tumor necrosis factor- α in chronic liver diseases, *Al-Azhar Assiut Medical Journal*, Vol.6, N.3 September, ISSN 1687-1693 (2008).
3. Akira Takasawa, Ichiro Kato, Kumi Takasawa, Yoko Ishii, Toshiko Yoshida, Mohammad H. Shehata, Hiroshi Kawaguchi, **Omar M. M. Mohafez**, Masakiyo Sasahara, and Koichi Hiraga: Mutation-, aging-, and gene dosage-dependent accumulation of neuroserpin (G392E) in endoplasmic reticula and lysosomes of neurons in transgenic mice, *The journal of biological chemistry* vol. 283, NO. 51, pp. 35606–35613, December 19, (2008).
4. Hiroshi Kawaguchi, Soshi Okamoto, Dwaipayan Sikdar, Akihiro Kume, Fang Li, **Omar M. M. Mohafez**, Mohammed Hassan Shehata, Koichi Hiraga: Genomic organization of regions that regulate chicken glycine decarboxylase gene transcription: Physiological and pathological implications, *Gene*, 432, 7-18 (2009).

5. **Omar M. M. Mohafez** and Alaa M. Nafady: Antioxidant, lipid peroxidation-inhibitory and anti-ulcer activities of brown propolis, *Bulletin of Pharmaceutical Sciences. Published by faculty of pharmacy, Assiut University*. Vol.2, December, (2010).
6. **Omar M. M. Mohafez**, Mekky M.M Abouzied and Ahmed A. Abdel-Ghany: Octreotide: A Somatostatin Analogue, Protects Liver against CCl₄-Induced Liver Injury in Mouse Model, *Asian Journal of Biochemistry*, 6(5)406-415(2011).
7. **Omar M. M. Mohafez**, and Mekky M. M. Abouzied: Early Effects of Diethylnitrosamine Contribute to Hepatocarcinogenesis. *International Journal of Pharmaceutical Research (IJPR)*, volume 4, issue 1(2012).
8. Alaa M. Nafady and **Omar M. M. Mohafez**: Cytotoxicity of Aculeatiside-A to hepatocellular carcinoma cells determined by MTT bioassay, *Bulletin of Pharmaceutical Sciences*. Published by faculty of pharmacy, Assiut University. Vol.2, December,(2011).
9. **Omar M. M. Mohafez**, Mohamed A. Abd EL-Aziz and Ahmad Ali Abdel ghany: The expression pattern of galectin-3 in the rat hepatocellular carcinoma. *Bulletin of Pharmaceutical Sciences*. Published by faculty of pharmacy, Assiut University. Vol.2, December, (2011).
10. **Omar M. M. Mohafez** , Esam Abu Fadel and Mekky M.M. Abouzied: Serum levels of IL-23, TNF- α and oxidative stress markers in rheumatoid arthritis patients, *AAMJ*, Vol. 10 N. 3, 109 – 121, (2012).
11. Taye A, Abouzied MM, **Mohafez OM**: Tempol ameliorates cardiac fibrosis in streptozotocin-induced diabetic rats: role of oxidative stress in diabetic cardiomyopathy. *Naunyn Schmiedebergs Arch Pharmacol*. 2013 Aug 16. [Epub ahead of print]
12. Abdel-Hamid, N. M. **Mohafez, O. M.** Zakaria, S. Thabet, K: Hepatic somatostatin receptor 2 expression during premalignant stages of hepatocellular carcinoma. *Tumour Biol*, Oct 26. [Epub ahead of print] (2013)

DSR Projects (KFU)

1. Tamer Shehata, **Omar Mohafez**, In-vivo and In-vitro Evaluation of Atorvastatin Transdermal Patches as Promising Drug Delivery System, DSR Project, 58400SAR, 2014-2015.
2. Maged El-Sayed Mohamed, Ibrahim Alhaider, Hany Ezzat Khalil, **Omar Mohafez**, Phytochemical and biological screening of essential oils from some aromatic plant families in the eastern area (Al-Ahsa) of Saudi Arabia, DSR Project, 112400 SAR, 2014-2015

Laboratory Techniques:

1. Basic biochemistry techniques including quantitative, spectroscopic and ELISA assays.
2. DNA technology including: isolation, purification, restriction enzymes digestion, ligation, sequencing and sub-cloning.
3. RNA technology including: total RNA isolation, purification, electrophoresis, primer extension analysis, S1 nuclease protection assay and Northern blotting.
4. PCR, and agarose gel electrophoresis.
5. Transformation of DNA into different cell types by electroporation and lipofection kits.
6. SDS –PAGE electrophoresis and Western blot.
7. EMSA and super-shift assay for transcription factors.
8. Fluorescent microscopy techniques: preparing the vector with the interest gene, transformation and culture and dealing with the Bio-Zero fluorescent microscope.
9. Cell culture: culturing of 3T3 cells, Hepa 1-6, HepG-2, HEK-293 cells, isolation and propagation both of Hepatocytes and MEFs.
10. Subcellular fractionation, nuclear protein preparation and purification.
11. Construction of reporter plasmids and expression of Luciferase gene
12. Screening of natural products for its anticancer activity
13. Isolation of stem cells for DNA micro-injection.

2. Dr.Omar Mohafez

CONFERENCE/SEMINAR/WORKSHOP:

1. Oral presentation titled "Mouse H- protein gene in the Annual meeting of the Japanese Society of molecular biologist, 2005,Toyama-Japan.
2. Poster titled "The hierarchical regulation of the chicken glycine decarboxylase gene promoter by elements dispersed within a 4.2 kb 5'-flanking region " in the The 20th International congress of biochemistry and molecular biology and 11th FABMB congress. June 18-23 2006 Kyoto Japan.
3. Poster titled "The mouse H-protein gene promoter in an open reading frame in exon-1" presented in the Annual meeting of the Japanese Society of molecular biologist, Tokyo Japan.
4. Attending and sharing in the Egyptian Society of Biochemistry and molecular Biology conference, 28-29 April, 2009.
5. Poster titled "The Rapid Onset of Diethylnitrosamine: Induced Hepatocellular Carcinoma" presented in the Egyptian Society of Biochemistry and molecular Biology conference, April, 14-15th , 2010 Cairo-Egypt.

Thesis supervisions:

1. Supervisor on master thesis in participation with the biochemistry department, faculty of pharmacy, Al-Menia University. Titled "Expression Of Somatostatin Receptor Type II In Hepatocellular Carcinoma And The Therapeutic Effects Of Some Herbs"
2. Supervisor on master thesis in participation with the biochemistry department, faculty of pharmacy, Al-Azhar University, Assiut Egypt. Titled "Biochemical indices in patients With psoriasis"
3. Supervisor on master thesis in participation with the biochemistry department, faculty of pharmacy, Al-Menia University. Titled "study on extrahepatic cancer possibility in different hepatocarcinogenic models in rats"
4. Supervisor on master thesis in participation with the biology department, faculty of sciences, Assiut university, Egypt. "Titled Apoptosis and Autophagy activity of anthracene on different cancer cell lines".
5. Supervisor on master thesis in participation with the biochemistry department, faculty of Medicine, Assiut University. Titled "Polymorphism of certain genes and risk factor for bladder cancer".
6. Supervisor on master thesis in participation with the biochemistry department, faculty of pharmacy, Al-Menia University. Titled "Hepatoprotective activity of Temple against liver injury- induced chemicals"

◆ *Principle investigator in: Evaluation of the effect of Arugula, Lupin and Sage oils on levels of different adipokines in obese rats (DSR, King Faisal University)*

◆ *Co-investigator in: Design and synthesis of novel dipeptidyl peptidase IV inhibitors for the treatment of type-2 diabetes mellitus (DSR, King Faisal University, No. 140133)*

◆ *Co-investigator in: Reversal effects of vitamin C on Paraquat induced Hepatic and renal toxicity in Albino Mice (DSR, King Faisal University)*

3. Dr. Muhammad Shahzad Chohan

M.phil Uni Health Sc, Lahore. M.B.B.S. Nishtar Med College, Multan, Pakistan

ASSISTANT PROFESSOR, ANATOMY AND HISTOLOGY

1. TEACHING EXPERIENCE : 12 years of Teaching experience in teaching Gross anatomy, Embryology, Neuroanatomy and Histology.

CURRENT PROJECTS & RESEARCH INTEREST :

1. Paraquat induced spleen toxicity (in progress)
2. Paraquat induced hepatotoxicity
3. Paraquat induced adrenal toxicity(in progress)

Publications

1. Paraquat induced hepatotoxicity in Albino Mice, published in Journal of Zoology. Zoological Society of Pakistan. 2010 Vol. 42 No. 1 pp. 69-73
2. Paraquat induced toxicity in spleen of Albino Mice, published in Journal of Pakistan Institute of Medical Sciences. Ann. Pak. Inst. Med. Sci. 2011; 7(1): 6-9
3. Paraquat induced toxicity in Adrenals in Albino Mice published in American Journal of Biomedical Sciences. Am. J. Biomed. Sci. 2011, 3(3), 228-235

Workshops attended

1. A research workshop on RESEARCH METHODS at University of health sciences Lahore. Pakistan in 2005
2. REAL TIME PCR WORKSHOP at University of health sciences Lahore. Pakistan in 2005
3. Work shop on Academic Advising At king Faisal university, KSA in 2011



Room Location : College of Clinical Pharmacy,

Ph.: no: 05895447

*Email :
mshwhan@kfu.edu.sa*

DSR (KFU) RESEARCH PROJECT

Muhammad shahzad chohan, Shibzada Tasleem RI, Omar Mohafez, Reversal effects of vitamin C on paraquat induced hepatic and renal toxicity in Albino mice, SR 60200, 2014-2015



*Room Location : College of
Clinical Pharmacy,
Ph.: 035899924
Email :
shhussain@kuf.edu.sa*

4. Dr. Snawar Hussain

B.Sc. M. Sc. University of Karachi, Pakistan Ph.D. Wuhan University, P.R.China

ASSISTANT PROFESSOR, BIOCHEMISTRY

TEACHING EXPERIENCE : .4 years in teaching Molecular biology, Biochemistry and Clinical Biochemistry

RESEARCH INTEREST :

1. Host-virus interactions and role of cellular factors in viral infection.
2. Mechanisms of entry, assembly and egress of Hepatitis C Virus.
3. Role of host Lipid metabolism in Hepatitis C Virus infection and its clinical implications.
4. Molecular mechanisms of Coronavirus entry, host cell tropism and determinants of zoonotic (cross-species) transmission.

LIST OF PUBLICATIONS:

1. **Hussain, S**, Sainz, B. Jr., Marsh, KA, Barretto, N and Uprichard, SL. Dynamic interactions between host lipid metabolism and Hepatitis C Virus infection. Manuscript in preparation.
2. Barretto N, Sainz B Jr, Hussein S, Uprichard SL. Determining the involvement of host cellular factors in HCV cell-to-cell spread and the therapeutic implications. Virol. 2014 May;88(9):5050-61.
3. **Hussain S**, Barretto N and Uprichard SL. New hepatitis C virus drug discovery strategies and model systems. Review. Expert Opin Drug Discov. 2012 Sep;7(9):849-59.
4. Sainz B Jr, Barretto N, Martin DN, Hiraga N, Imamura M, **Hussain S**, Marsh KA, Yu X, Chayama K, Alrefai WA, Uprichard SL. Identification of the Niemann-Pick C1-like 1 cholesterol absorption receptor as a new hepatitis C virus entry factor. Nat Med. 2012 Jan 8;18(2):281-5.
5. **Hussain S** and Gallagher TM. Interaction of SARS-Coronavirus Protein 6 with nuclear import machinery is conformation dependent. Virus Research 2010; 153(2), 299-304.
6. Zhou H, Ferraro D, Zhao J, **Hussain S**, Shao J, Trujillo J, Netland J, Gallagher T, Perlman S. The N Terminal Region of Severe Acute Respiratory Syndrome Coronavirus Protein 6 Induces Membrane Rearrangement and Enhances Virus Replication. J Virol. 2010 84(7) : 3542-3551
7. Yang Y, Hussain S, Wang H, Ke M, Guo D. Translational control of the sub-genomic RNAs of severe acute respiratory syndrome coronavirus. Virus Genes. 2009; 39(1):10-8.

8. Sarfraz S, Hamid S, Siddiqui A, **Hussain S**, Pervez S, Alexander G. Altered expression of cell cycle and apoptotic proteins in chronic hepatitis C virus infection. *BMC Microbiol.* 2008; 8:133.
9. **Hussain S**, Perlman S, Gallagher TM. Severe acute respiratory syndrome coronavirus protein 6 accelerates murine hepatitis virus infections by more than one mechanism. *J Virol.* 2008; 82(14):7212-22.
10. **Hussain S**, Pan J, Xu J, Yang Y, Chen Y, Wu Y, Li Z, Zhu Y, Tien P, Guo D. Identification and characterization of severe acute respiratory syndrome coronavirus subgenomic RNAs. *Adv Exp Med Biol.* 2006; 581:85-8.
11. Li Z, Xiong Y, Peng Y, Pan J, Chen Y, Wu X, **Hussain S**, Tien P, Guo D. Specific inhibition of HIV-1 replication by short hairpin RNAs targeting human cyclin T1 without inducing apoptosis. *FEBS Lett.* 2005; 579(14):3100-6.
12. **Hussain S**, Pan J, Chen Y, Yang Y, Xu J, Wu Y, Li Z, Zhu Y, Tien P, Guo D. Identification of novel subgenomic RNAs and noncanonical transcription initiation signals of severe acute respiratory syndrome coronavirus. *J Virol.* 2005; 79(9):5288-95.

POSTER PRESENTATIONS

1. Snawar Hussain and Susan L. Uprichard. Poster presentation at 20th International Symposium on Hepatitis C Virus and Related Viruses to be held in Melbourne, Australia, October 6th-10th 2013.
2. **Snawar Hussain** and Thomas M. Gallagher. Poster presentation at XIth International Nidovirus Symposium (St. Catherine's College Oxford, June 22-27 2008).
3. **Snawar Hussain**, Ji'an Pan, Jing Xu and Guo Deyin. "Identification and characterization of SARS Coronavirus subgenomic RNAs". Poster presentation at the Xth International Nidovirus Symposium: Toward the Control of SARS and other Nidovirus Diseases. June 24-30, 2005, Colorado Springs, CO. USA.

Oral Presentations

1. **Snawar Hussain** and Thomas M. Gallagher. 2007. "SARS coronavirus accessory protein 6 accelerates MHV infections by more than one mechanism". *American Society of Virology—26th annual meeting (July 2007, Corvallis, Oregon, USA).*
2. **Snawar Hussain**, Jian Pan, Yu Chen, Zhao-Yang Li, Yu Peng, Ying Zhu, and Deyin Guo. 2003. "Novel Subgenomic RNAs and Noncanonical Transcription Initiation Signal of Severe Acute Respiratory Syndrome Associated Coronavirus (SARS-CoV)". *3rd annual meeting of the China RNA society and 1st international RNA workshop in China. October, 2003, Wuhan University, Wuhan, China.*
3. **Snawar Hussain**, Ji'an Pan, Jing Xu and Guo Deyin. *Transcriptional control of SARS-CoV subgenomic RNAs. International Symposium on Emerging Viruses: from genomics and Therapy. Nov. 18-19, 2004, Wuhan University, Wuhan, China*

*Room Location : College of
Clinical Pharmacy,
Ph.: 03589825
Email : asiat-aha@kfu.edu.sa,
meetasia@gmail.com*

Awards :

Senior Research Fellow
ICMR "Metabolic and molecular changes in diabetic rat tissues, their control and reversal by antidiabetic compounds" 2008.
<http://www.icmr.nic.in>

Senior Research Fellow
(CSIR) Tachykinin neuropeptides in ageing rats. 2005-2006.
<http://www.csir.res.in>

Senior Research Fellow
CSIR Effect of DHEA on aging rat brain (2004- 2005 at Jawaharlal Nehru University, India.
<http://www.jnu.ac.in>

Junior Research Fellow
UGC mechanism of antidiabetic and anti-oxidant action of certain trace metals and plant extracts on experimentally induced diabetic rats.
<http://www.ugc.ac.in>

Cleared National Eligibility Test (NET) for Lectureship

5. Dr.Asia Taha

B.Sc(General Sci), M. Sc (Biochem), & Ph.D. Jamia Millia Islamia, New Delhi , India

ASSISTANT PROFESSOR, BIOCHEMISTRY

TEACHING EXPERIENCE : 5 years of teaching experience in teaching Biochemistry. Guest Faculty for teaching Animal Physiology and Biophysical Chemistry.

RESEARCH INTERESTS: Finding alternate ways of treatment of type 1 diabetes, mechanism of action of antidiabetic agents, effect of antidiabetic compounds on general metabolism of the body. Research on anti aging drugs on aging brains using rat animal model system.

LIST OF PUBLICATIONS:

1. Saira Azhar, Mohamed A Hassali, **Asia Taha**, Shujaat Ali Khan, Ghulam Murtaza and Izhar Hussain "Evaluation of the Perception of Community Pharmacists Regarding their Role in Pakistan's Healthcare System: A Qualitative Approach" *Tropical Journal of Pharmaceutical Research*, 2013; 12 (4): 635-639
2. PardeepKumar, Asia Taha, R.K. Kale, P.McLean and Najma Zaheer Baquer "Beneficial effects of Trigonella foenum graecum and sodium orthovanadate on metabolic parameters in experimental diabetes." *Cell Biochemistry & Function*, 2012;30(6):464-473.
3. Baquer NZ, Kumar P, **Taha A**, Kale RK, Cowsik SM, McLean P. Metabolic and molecular action of Trigonella foenum-graecum (fenugreek) and trace metals in experimental diabetic tissues. *J Biosci.* 2011;36 (2):383-396.
4. Kumar P, Taha A, Kale RK, S M Cowsik, Baquer NZ, Physiological and Biochemical effects of 17 β estradiol in Aging female rat brain. .Exp Gerontol. 2011 2011 46(7):597-605.
5. Baquer NZ, Taha A, Kumar P, McLean P, Cowsik SM, Kale RK, Singh R, Sharma D. A metabolic and functional overview of brain aging linked to neurological disorders. *Biogerontology*. 2009 Aug;10(4):377-413.
6. Taha A, Mishra M, Baquer NZ, Sharma D. Na+K(+)-ATPase activity in response to exogenous dehydroepiandrosterone administration in aging rat brain. *Indian J Exp Biol*. 2008 46(12):852-4
7. Pradeep Kumar, Asia Taha, Deepak Sharma, R. K. Kale and Najama Baquer. Effect of Dehydroepiandrosterone (DHEA) on membrane functions in aging rat brain regions *Biogerontology*, 2008.

8. Sameer Mohammad, Asia Taha, Kamal Akhtar, RNK Bamezai, and Najma Zaheer Baquer. In vivo effect of *Trigonella foenum graecum* on the expression of Pyruvate kinase, Phosphoenolpyruvate carboxykinase and distribution of glucose transporter (GLUT4) in alloxan-diabetic rats. *Canadian Journal of Physiology and Pharmacology*, 2006; 84(6):647.
9. Nupur Sinha, Asia Taha, N. Z. Baquer and Deepak Sharma. Exogenous administration of Dehydroepiandrosterone attenuates loss of superoxide dismutase activity in the brain of old rats *Indian Journal of Biochemistry and Biophysics*. 2007, 45, 2008, 57-60
10. Anju Preet, M.R. Siddiqui, A. Taha, J. Badhai, M.E. Hussain, P.K. Yadava and N.Z. Baquer. Long-term effect of *Trigonella foenum graecum* and its combination with sodium orthovanadate in preventing histopathological and biochemical abnormalities in diabetic rat ocular tissues. *Molecular and Cellular Biochemistry*, 2006; 289(1-2):137-147.
11. Mohammad Rizwan Siddiqui, K. Moorthy, Asia Taha, Mohd. Ejaz Hussain, Najma Z Baquer. Low doses of vanadate and *Trigonella* synergistically regulate Na⁺/K⁺ ATPase activity and GLUT-4 translocation in alloxan diabetic rats. *Molecular and Cellular Biochemistry*, 2006; 285(1-2):17-27
12. Mohammad Rizwan Siddiqui, Asia Taha, K Moorthy, Mohd. Ejaz Hussain, S F Basir and Najma Z Baquer. Amelioration of altered antioxidants status and membrane linked functions by vanadium and *Trigonella* in alloxan diabetic rat brains. *Journal of Biosciences* 2005;30(4):483-490.
13. Sameer Mohammad, Asia Taha, RNK Bamezai and Najma Z Baquer. Modulation of Glucose transporter (GLUT4) by Vanadate and *Trigonella* in alloxan-diabetic rats. *Life Sciences*, 2006; 78(8):820-824.

Conference

1. Anti-Diabetic Effect of *Trigonella foenum graecum* on Altered Membrane Functions in Alloxan Diabetic Rats. 2nd International Conference on Trends in Cellular and Molecular Biology. January 5-7, 2008, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.
2. Antiaging Effect of Dehydroepiandrosterone (DHEA) on Membrane Functions in Aging Rat Brain Regions. 34th Annual conference of Clinical Biochemists of India (ACBICON 2007) Dec 18- 20, 2007, Indian Habitat Center, New Delhi. (Abstract published in the Indian Journal of clinical biology).
3. Regulation of Glucose Homeostasis in experimental Diabetes by Insulin and Antidiabetic compounds *Trigonella Foenum Graecum* and Vanadium. 34th annual conference of Clinical Biochemists of India (ACBICON 2007) December 18th to 20th, 2007, Indian Habitat Center, New Delhi, India. (Abstract published in the Indian Journal of clinical biology).
4. Effect of Experimental Diabetes on DNA Degradation, GLUT4 translocation and Membrane linked function in rat tissues and their reversal by insulin and antidiabetic compounds. 76th Annual meeting of Society of Biological Chemists (India), 25-27 Nov 2007. Sri Venkateswara University, Tirupati, India.

Technical expertise:

Molecular Biology
Isolation of genomic DNA and RNA from animal tissues, DNA elution, PCR, RTPCR, SDS-PAGE, Native-PAGE.

Enzymatic work:
Extraction and purification of enzymes from animal tissues. Determination of enzymatic activities and study of enzyme kinetics.

Animal work:
Collection and processing of tissues, Separating subcellular fractions.

Biochemical techniques: DNA and protein estimation, protein purification Gel Exclusion

*Room Location : College of
Clinical Pharmacy,
Ph.: 03589824*

*Email :
telmahdy@kfu.edu.sa*

6. Dr.Taghrid Said Mohamed El-Mahdy

B.Sc. Cairo University M. Sc, Helwan University, Ph.D. Helwan University, Egypt with Bradford University, UK

ASSISTANT PROFESSOR, Microbiology and Immunology

TEACHING EXPERIENCE : 13 years in teaching Microbiology, molecular biology and Immunology .

RESEARCH INTEREST :

1. Identification of different genetic mechanisms that confer antibiotic resistance to pathogenic bacteria.
2. Epidemiological and molecular characterization of Gram +ve and Gram-ve bacteria.
3. Application of different molecular techniques to transfer genetic materials of resistance to recipient bacteria (cloning, conjugation, etc).

LIST OF PUBLICATIONS:

1. **El-Mahdy**, T.S., El-Ahmady, M. and Goering, R.V. (2014) Molecular characterization of methicillin-resistant *Staphylococcus aureus* isolated over a two-year period in a Qatari hospital from multinational patients. *Clin Microbiol Infect.* 20:169-173.
2. **El-Mahdy**, T.S.; Abdalla, S.; El-Domany, R.; Mohamed, M.S.; Ross, J.I. and Snelling, A.M. (2010) Detection of a new *erm(X)*-mediated antibiotic resistance in Egyptian cutaneous propionibacteria. *Anaerobe.* 16:376-379.
3. **El-Mahdy**, T.S.; Abdalla, S.; El-Domany, R. and Snelling, A.M. (2010) Investigation of MLS_B and tetracycline resistance in coagulase-negative staphylococci isolated from the skin of Egyptian acne patients and controls. *J. Am. Sci.* 6(11):880-888.
4. **El-Mahdy**, T.S.M.; Abd-Elaziz, M.M.; El-Sayed, M.H.; Ross, J.I.; Abd-Allah, S.; Radwan, H. and Snelling, A.M. (2007) Investigation of erythromycin resistant staphylococci from the skin of Egyptian acne patients. *Clin. Microbiol. Infect.* 13 (Suppl 1) p. S522.
5. **El-Mahdy**, T.S.M.; Abd-Elaziz, M.M.; El-Sayed, M.H.; Ross, J.I.; Abd-Allah, S.; Radwan, H. and Snelling, A.M. (2007) Antibiotic resistance amongst cutaneous propionibacteria from Egyptian acne patients. *Clin. Microbiol. Infect.* 13 (Suppl 1) p. S616.

CONFERENCE/SEMINAR/WORKSHOP:

1. 17th European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Munich, Germany, April 2007, [Poster presentation].
2. Society of General Microbiology (SGM), 161st meeting, Edinburgh, Scotland, Sept. 2007, [Poster presentation].
3. 42nd Annual Midwest Student Biomedical Research Forum, USA, Feb. 2011, [Oral presentation].
4. ASM (American Society of Microbiology) Annual Meeting of Missouri Valley Branch, USA, March 2011, [Oral presentation].
5. Fulbright Visiting Scholar Enrichment Regional Seminar, Vermont, USA, April 2011.
6. 51st ICAAC (Interscience Conference of Antimicrobial Agents and Chemotherapy), 2011, Chicago, USA. Two abstracts, one as oral presentation and the other is poster presentation.
7. 52nd ICAAC (Interscience Conference of Antimicrobial Agents and Chemotherapy), 2012, San Francisco, USA [Poster presentation].

Awards:

1. Channel Scholarship for PhD fulfillment between Helwan University, Egypt and Bradford University, UK funded from the Egyptian Ministry of Higher Education from Feb. 2006 - Feb. 2008 (£ 48.000).
2. Society of General Microbiology (SGM) travel grant for poster presentation in the 161st meeting, Edinburgh, Sept. 2007.
3. Fulbright postdoc fellowship for 9 months to Creighton University, Omaha, Nebraska, USA, 2010-2011 (\$ 50.000).

KFU grant :

- ◆ Molecular Characterization of Resistance Mechanisms to Beta-Lactams in Clinical Isolates of Enterobacteriaceae and *Pseudomonas aeruginosa* from Hospitals in Saudi Arabia (140,000 SAR).
- ◆ Genetic and Epidemiological Characterization of Nasally Colonized *Staphylococcus aureus* Isolated from Healthcare Workers, Clinical Students and Community in the Eastern Region, KSA (103,000 SAR).



Room Location : College of
Clinical Pharmacy,
Ph.: 03589822
Email :
yibrahim@kfu.edu.sa

Skills:

Different analytical methods include HPLC, GC, FTIR, UV, DSC, TGA and Atomic absorption, in addition to pharmacokinetic soft-wares that include WinNonlin, and Scientific.

Projects completed

"A randomized trial of once daily levofloxacin versus once daily ceftriaxone for treatment of nursing home-acquired pneumonia and prospective pharmacokinetic study of levofloxacin." Residency Graduation Project . Advisor: Allan C. Anderson, Pharm. D.

"Enhancement of amphotericin B fungicidal activity with Echinecea in a murine model of disseminated candidiasis" Honor project. College of Pharmacy, The University of Iowa .

1. Dr. Yasir A. Ibrahim

Pharm D, M.Sc. The University of Iowa, USA

ASSISTANT PROFESSOR,

TEACHING EXPERIENCE : More than 13 years experience in Experiential Teaching and Didactic Teaching (pharmacotherapy, therapeutics, clinical pharmacology, pathology, Emergency First Care, Patient assessment, Marketing and Pharmacoeconomics

RESEARCH INTEREST :

1. ICU
2. Infectious diseases
3. Drug Utilization

LIST OF PUBLICATIONS:

1. Ur Rahman M, Ibrahim Y, Hashmey R, Abuhasma S, Quinine induced Bronchiolitis Obliterans and Organizing Pneumonia, A Case Report, submitted for publication.
2. Tahir Mehmood Khan, Yasir Ibrahim, A qualitative exploration of the non-prescription sale of drug and incidence of adverse events in community pharmacy settings in the Eastern Province of the Kingdom of Saudi Arabia, EJHParm, 2012;0:1-5.
3. Lewis M, Ibrahim Y, Richie D. Pharmacological Options for the Management of Diabetic Peripheral Neuropathy, *Fromulary*, 2005;40:438-452.
4. Ibrahim Y, Pharmacy practice, *International Journal of Toxicology*, May-June 2003; 22 (3):256-58.

RESEARCH/ SERVICE PROJECTS

- ◆ "Glucose Control in Tawam ICU"
- ◆ "Line Sepsis in Tawam ICU"
- ◆ "DVT prophylaxis in Tawam ICU"
- ◆ "Ventilator Associated Pneumonia"
- ◆ "Extended Study of Prevalence of Infection in Intensive Care (EPIC) II"
- ◆ "Stewardship Program"
- ◆ "ER antibacterial prescribing habits"
- ◆ "Antibacterial Surgical Prophylaxis"

1. CONFERENCE/SEMINAR/WORKSHOP:

2. Ibrahim Y, Labbidi A, Obeid K, Hashmey R. *IV Zanamivir in the Treatment of Novel Influenza H1N1; Report of the First Case in the Gulf*. DUPHAT Meeting Poster Presentation. March 2010, Dubai, UAE.
3. Ibrahim Y, Hashmey R. *Rosiglitazone Medication Utilization Evaluation*. DUPHAT Meeting Poster Presentation. March 2009, Dubai, UAE.
4. Ibrahim Y, Salahuddin S, Obeid K, Khan A, Hashmey R. *Surveillance of Antimicrobial Consumption in a Tertiary Care Hospital in the UAE 2005 -06* 1st International Pharmacy Conference, Nov 2008, Al-Ain, UAE.
5. Ur Rahman M, Ibrahim Y, Hashmey R, Abuhasna S. *Ventilator Associated Pneumonia: A 22-Month Prospective Observational Study from a Tertiary Care Centre in United Arab Emirates*. 13th International Society of Infectious Diseases, June 2008, Kuala Lumpur, Malaysia.
6. Ibrahim Y, Hashmey R. *Emergency Room Antibacterial Prescribing Patterns*. DUPHAT Meeting Poster Presentation. March 2008, Dubai, UAE.
7. Ur Rahman M, Ibrahim Y, Abu-Zidan F, Abuhasna S. *Care of Terminally Ill Patients: An Opinion Survey among Health Care Providers in the Middle East*. 28th International Symposium on Intensive Care and Emergency Medicine, March 2008. Brussels, Belgium.
8. Ur Rahman M, Ibrahim Y, Hashmey R, Abuhasna S. *Impact of Institute for Health Improvement (IHI) Ventilator Bundle measures on the incidence of Ventilator Associate Pneumonia (VAP) rate at a tertiary care medical center in UAE: A prospective 15 month study*. Society of Critical Care Medicine's 37th Critical Care Congress, Feb. 2008, Honolulu, USA.
9. Hashmey R, Ibrahim Y, Ur Rahman M, Abuhasna S, Obeid K, *Impact of Infection Control Measures On Catheter Associated Blood Stream Infections In The ICU*. International Pan Arab Critical Care Medicine Society (IPACCS), and International Critical Care Conference and Exhibition (ICCC), April 2007, Dubai, UAE.
10. Ur Rahman M, Ibrahim Y, Hashmey R, Abuhasna S, Obeid K, *One Year Surveillance Data on Ventilator Associated Pneumonia at Tawam Hospital*. International Pan Arab Critical Care Medicine Society , and International Critical Care Conference and Exhibition, April 2007, Dubai, UAE.
11. Ibrahim Y, Hashmey R. *Antibacterial Surgical Prophylaxis*. DUPHAT Meeting Poster Presentation. March 2007, Dubai, UAE.
12. Calmes HM, Ibrahim Y, Nguyen ST, Riche DM. *A Retrospective Review of Vancomycin Use at the Medical Center of Louisiana - New Orleans (MCLNO)* ASHP Midyear Meeting Poster Presentation. December 2004, Orlando, Florida.
13. Zaghloul, A. A. Kassem, E. A. Hosny, I. K. Reddy, Y. Ibrahim, and M. A. Khan. *Comparative Study Ketoprofen Tablet Dosage Forms Containing Bioadhesives*. AAPS Annual Meeting and Exposition, October 2001, Denver, Colorado.
14. Ibrahim YA, Anderson AC. *A randomized trial of once daily levofloxacin versus once daily ceftriaxone for treatment of nursing home-acquired pneumonia and prospective pharmacokinetic study of levofloxacin*. ASHP Midyear Meeting Poster Presentation. December 2000, Las Vegas, Nevada.

MONOGRAPHS

Cetorelix (Cetrotide®). Tawam Hospital in affiliation with Johns Hopkins Medicine. New drug addition for the PTC 2005.

Moxifloxacin (Avelox®). Iowa Drug Information Network. A perquisite project for completion of Drug Information clerkship. March 2000.

MEDICATION EVALUATION UTILIZATION PROJECTS

"DVT prophylaxis in inpatients on Thalidomide and Lenalidomide in Tawam" Ibrahim Y 2010.

"Pharmacoeconomic impact of switching IV pantapazole to IV famotidine in ICU stress ulcer prophylaxis" Ibrahim Y 2009

"Levosimendan Use in Tawam" Ibrahim Y 2009

"Nesiritide Use in Tawam" Ibrahim Y 2008

"ER antibacterial prescribing habits" Ibrahim Y, Hashmey R. 2008

"Antibacterial Surgical Prophylaxis" Hashmey R, Ibrahim Y. 2007



*Room Location : College of
Clinical Pharmacy,
Room No : 1022
IP. Phone:03589790
Email : ahasif
@kfu.edu.sa*

***Research Projects
Under Supervision/ Co-
supervision/ Guidance :***

*Effect of alcoholic/aqueous
extract of Nigella Sativa on
healing of Aspirine induced
gastric ulcer in albino rats.*

*Effect of Nigella Sativa on
Analgesic induced nephrop-
athy in albino rats.*

*Antidiabetic activity of
Alpenia Galanga.*

*Effects and interaction of
tobramycin with piperacillin
and diclofenac on rabbit
kidney.*

2. Dr. Afzal H. Asif

MBBS, Bahauddin Zakariyya University, M.Phil University of Pujab, Pakistan,

ASSOCIATE PROFESSOR, PHARMACOLOGY & THERAPEUTICS

TEACHING EXPERIENCE : 24 years experience in teaching and research in pharmacology

RESEARCH INTEREST :

1. Nephrotoxicity of drugs and its protection
2. Anti-diabetic, Antihyperlipidemic and Anti-atherosclerotic Activity of indigenous plants
3. Education and Learning in Health Professions

LIST OF PUBLICATIONS:

1. Naveed Ullah, Mir Azam Khan, Taous Khan, **Afzal Haq Asif** and Waqar Ahmad. Mentha piperita in nephrotoxicity; a possible intervention to ameliorate renal derangements associated with gentamicin. Indian Journal of Pharmacology 2014,46(2): 166-70
2. Naveed Ullah¹, Mir Azam Khan, **Afzal Haq Asif**, Taous Khan, Waqar Ahmad: Citrullus colocynthis failed to combat against renal derangements, in spite of its strong antioxidant properties. Acta Poloniae Pharmaceutica & Drug Research 2013, 70(3): 533-38. <http://www.ncbi.nlm.nih.gov/pubmed/23757944>
3. **Afzal H. Asif** , Sahibzada T. Rasool and Tahir M Khan: Pyridoxal Phosphate a Possible Intervention to Prevent Aminoglycoside Induced Electrolyte Imbalance. J Clinic Res Bioeth 2012, 3:1 <http://dx.doi.org/10.4172/2155-9627.1000124>
4. Naveed U, Asif AH, Khan MA, et al: Chemical screening of Naswar and Cigarette: a comparative study IJBCR Vol.1 Issue: 1: 2011
5. Naveed Ullah, Mir Azam Khan, Afzal Haq Asif et al: A comparative study of *Morven gold* and *Tander Virginia* cigarettes with respect to its spasmogenic, spasmolytic and chemical screening. African Journal of Pharmacy and Pharmacology Vol. 5(3), pp. 347-351, March, 2011
6. Sibghatullah Sangi, Sree Harsha, and Afzal Haq Asif: Formulation and evaluation of mucoadhesive Nigella Sativa and Olive oils for vaginal infections. Der Pharmacia Letter, 2011, 3(2): 39-46.
7. Khan T M , Afzal Haq, Khan A , Tahir H , Ejaz M. A pilot study evaluating health literacy towards breast cancer among multiethnic students. Journal of Clinical and Diagnostic Research.2010 June, 7; 4:2504-2511
8. Naveed Ullah, Habib Ahmad, Afzal Haq Asif, Qadar khan, Rabia Anwar. Antibacterial activities of genetic variants of Mirabilis jalapa, Phcog J 2010: 7 (2): 181-184
9. A.Turabi, ADanyal, S.Hassan, Y.Salat, MAhmad, AH Asif: Evaluation of suspected chronic pesticide poisoning among residents near agriculture fields, Biomedica Dec 2007;23:76-82.

10. MS Khan , MA Sheikh , A Danyal, F Tahir , M.Bashir , N Rahat , AH Asif: forum of 2004 Does LH/Testo And Testo/LH Ratio Affect Male Fertility?. Med Forum 2006; 17(6)
11. A Hamid, AH Asif, A Salam Effect of Exercise on Glucose, Lipid Profile and Apo-ProtienB. Med Forum 2004; 15(9):19-20
12. A Hamid, AH Asif, A Salam Effect of Exercise on Body Weight and Blood Pressure. Med Forum 2004; 15(9):16-18.
13. H.Subhani, B.Khizar, AH Asif, N.Javid, Seroprevalence of Hepatitis B and C among patients of Hepatocellular Carcinoma. Med Forum 2004, 15(7).
14. M.Zahid, AH Asif, NI Ansari, Biochemical/Functional Derangements produced by Aminoglycoside induced nephrotoxicity. Pak PGMJ 2004; 15(2)
15. ST Rasool, AH Asif, A.Hamid Malathion: A Biochemical and Pharmacological Review. Medical Forum. 2004
16. A.Hamid, AH Asif, Azhar Masud Bhatti, Shahid Rauf, Dilawar Khan Trends of Drug Dependence in Hazara Division. Med Forum 2003 14(2).
17. AH Asif, , A.Hamid, SH Shah HHKhan, Effect of Pyridoxal-5-Phosphate on Gentamicin induced Nephrotoxicity in rabbits. Med Forum 2003; 14:7.
18. A Hamid, D Khan, AH Asif,.; M Naeem,.; S Rauf, Incidence of Road Traffic Accidents in Hazara Division. Med Forum 2003; 14(3): 10-12.
19. A Hamid; AH Asif, M.; Jalil, Asif; Hanif, M.; Anwar, A., Trend of Cigarette Smoking among the College Students, Medical Students and Doctors. Med Forum 2003; 14(7):13-15
20. A.Hamid , SRauf , M.Ashraf , , N Azhar , M.Asif Jalil , AH Asif , bEffect of oral contraceptive agent on serum level of total proteins, albumin, Copper and Zinc in women. Med Forum: 13 (9); 2002.
21. S Rauf , N Sharif , A Hamid , M Naeem , AHAsif, Comparative study of serum Vitamin-A levels in Breast-fed, weaned properly and bottle-fed, weaned improperly children less than 2 years of age. Med Forum:13; 2002.
22. A.Hamid , AHAsif , D Khan, N Azhar , Asif Jalil & Rozina Noreen Drug, driving and traffic safety in Hazara division. Med Forum: 13(8);2002.
23. MA Jaleel , R Noreen , A Hameed , AH Asif , D Khan Levels of Heavy Metals, pH, and TDS in drinking water in different areas of Multan. Med Forum: 13(8); 2002.
24. M Naeem, SRauf, A Hamid, A.H. Asif Echocardiographic Determination of left Ventricular Pump Function in essential Hypertension. Med Forum 2002; 13(9):
25. A. Hamid , Dilawar Khan , M. Asif Jalil , AHAsif , Rozina Noreen , Iqbal Mughal , Altaf H A Survey of District Jail Abbottabad. Med Forum.2002; 13(10):11-13
26. NA Noor, GMD Chauhdry, M.Masood, AH Asif, Acute poisoning in Adults in Multan (letter); JPMA: 38(11); 1988.
27. AH Asif, Aminoglycoside Nephrotoxicity and its prevention. Presentation made at Aga Khan University in Aug, 1997
28. AH Asif, Role of Pyridoxal-5-Phosphate in Protection Against Aminoglycoside induced Nephrotoxicity Thesis approved by the University of Punjab, for Postgraduate Degree in Pharmacology: 1995.

Research Projects

Under Supervision/ Co-supervision/Guidance:

Effect of alpha-tocopherol and selenium on Aminoglycoside induced nephrotoxicity

Effect of alpha-tocopherol on coagulation profile of normal and aspirin treated albino rats.

Effect of alcoholic extract of Crataegus oxyacantha on serum lipids of high cholesterol diet fed albino rats

Effect of Nigella sativa on coagulation profile of normal and aspirin treated albino rats.

Effect of Nigella sativa on Aminoglycoside induced nephrotoxicity

Effect of glycine on alcohol induced changes in rat liver

Effect of Alpha tocopherol alone and in combination with simvastatin or gemfibrozil on serum lipid profile in hyperlipidemic diet fed albino rats

Effect of Alpha tocopherol on healing of aspirin induced gastric ulcer in albino rats



Room Location : College
of Clinical Pharmacy,
Ph.: 03589930

Email :
kyusuff@kfu.edu.sa

Dissertations

B.Pharm (Hons)

- ◆ **Title:** *Plants used in controlling fertility in males (1987)*

M. Pharm

- ◆ **Title:** *Drug Supply Strategies, constraints & prospects in Nigeria (2000)*

Ph.D

- ◆ **Title:** *Pharmacists' participation in the documentation of medication history in ambulatory care setting: A case study of University College Hospital, Ibadan (2008)*

3. Dr. Kazeem Babatunde Yusuff

B. Pharm (Ife), M. Sc, Ph. D , University of Lagos, Nigeria

ASSISTANT PROFESSOR, CLINICAL PHARMACY

TEACHING EXPERIENCE : Fourteen year Experience of teaching Clinical Pharmacy, Health Care System, Pharmaceutical care, Therapeutics, Institutional Pharmacy Practice, Pharmacy management, Pharmacoeconomics, Pharmacoepidemiology, Communication skills & Patient counseling.

RESEARCH INTEREST :

1. Pharmaceutical care,
2. Pharmacoepidemiology,
3. Medicines use problems,
4. Medicines advertisement, medication history,
5. Rational prescribing,
6. Patient adherence and drug supply management

LIST OF PUBLICATIONS:

1. Unyime IE, **Yusuff KB**. Anti-hypertensive medicines prescribing for medical outpatients in a premier teaching hospital in Nigeria: a probable shift of paradigm. *Pharmacy Practice*. 2014; 12(2): 419-425
2. **Yusuff KB**. Perceived medications use challenges and self-initiated coping strategies used by medical outpatients. *International Journal of Clinical Pharmacy*. 2013, 35: 65-71
3. **Yusuff K.B**, Omarusehe L. Determinants of self-medication practices among pregnant women in Nigeria. *International Journal of Clinical Pharmacy* 2011, 33(5): 886-875
4. **Yusuff K.B**, Sanni A. Itinerant vending of medicines inside buses in Nigeria: vending strategies, dominant themes and medicine-related information provided. *Pharmacy Practice* 2011; 9(3): 128-135
5. **Yusuff K.B** , Tayo F. Frequency, types and severity of medication use-related problems among medical outpatients in Nigeria. *International Journal of Clinical Pharmacy* 2011; 33(3): 558-564
6. **Yusuff K.B** , Tayo F & Aina B.A. Pharmacists' participation in the documentation of medication history in a developing setting: An exploratory assessment with new criteria. *Pharmacy Practice* 2010; 8(2): 139-14

7. **Yusuff K.B**, Tayo F & Aina B.A. What probable factors underlie inadequacy of medication history information recorded in patients' case notes by physicians in a Nigerian teaching hospital? *International Journal of Pharmacy Practice* 2009; 17: 317-321.
8. **Yusuff K. B** & Balogun O.B. Pattern of Drug utilisation among hypertensive patients in a Nigeria teaching hospital. *Pharmacoepidemiology & Drug safety* 2005; 14: 69-74.
9. **Yusuff K. B.** & Tayo F. Drug supply strategies, constraints and prospects in Nigeria. *African Journal of Medicine & Medical Science*, 2004; 33: 389-94.
10. **Yusuff K. B.** & Awotunde A.M. The Frequency of Drug history documentation in an institutionalised care setting in Nigeria. *Journal of Pharmacy & Pharmaceutical Sciences* 2005; 8(2): 141-146.
11. **Yusuff K. B.** & Balogun O. B. Physicians' prescribing of anti-hypertensive combinations in a tertiary care setting in southwestern Nigeria. *Journal of Pharmacy & Pharmaceutical Sciences* 2005; 8(2): 235-242.
12. **Yusuff K.B** & Alabi A. Assessing patient adherence to antihypertensive drug therapy: Can a structured pharmacist-conducted interview separate the wheat from the chaff? *International Journal of Pharmacy Practice* 2007; 15(2): 295-300.
13. **Yusuff K.B** & Yusuf A. A cross media analysis of educational information contents of adverts of OTC medicines in a Nigerian urban setting. *International Journal of Pharmacy Practice* 2008; 16(3): 167-173.
14. **Yusuff K.B**, Ajayi A & Joseph Y.B. Laboratory monitoring of hematological and hepatic parameters in ambulatory hypertensive patients receiving alpha-methyldopa in a Nigerian tertiary care setting. *Current Drug Safety* 2008; 3: 63-66.
15. **Yusuff K.B** & Tayo F. Does a Physician's specialty influence the recording of medication history in patients' case notes? *British Journal of Clinical Pharmacology*. 2008; 66(2): 308-312.
16. **Yusuff K.B** & Yusuf A. Advertising OTC medicines in a Nigerian urban setting: content analysis for indications, targets and advertising appeals. *Journal of the American Pharmacists Association*. 2009;49(1): 86-89
17. **Yusuff K.B**, Obe B & Joseph Y.B. Adherence to anti-diabetic drug therapy and self management practices among type-2 diabetics in a Nigerian tertiary care setting. *Pharmacy World & Science*. 2008; 30: 876-883

Project Supervision:

20 Undergraduate 2 postgraduate research projects

Peer-reviewer:

- ◆ European Journal of Clinical Pharmacology
- ◆ International Journal of Pharmacy Practice
- ◆ Pharmacoepidemiology & Drug Safety
- ◆ Journal of the American Pharmacists Association
- ◆ Clinical and Experimental Pharmacology
- ◆ Current Drug Safety
- ◆ Pharmacy Practice
- ◆ International Journal of Diabetes in Developing Countries
- ◆ Nigerian Medical Journal
- ◆ West African Journal of Pharmacy
- ◆ Pan African Medical Journal
- ◆ African Journal of Medicine & Medical Science

DSR Project :

Dr. Kazeem B. Yusuff, Dr. Promise Emeka, Dr. Mahesh Attimarad, Effect of concurrent administration of date palm fruit with Lisinopril on serum potassium level in rabbits



Room Location : College of
Clinical Pharmacy,
Ph.: 03-5817175
Email :
eelhassan@kfu.edu.sa

BCPS Certification

**October 2013: Board
certified pharmacist
(BCPS) Pharmacother-
apy (American Phar-
macist Association
DC Washington)**

4. Dr. El Walid El Hassan

B.Sc AL Ahliyya Amman University . M. Phharmcy Jordan University of Science & technology

LECTURER

WORK EXPERIENCE : 8 Years of training experience in Institutional Pharma-
cy Practice Experience And Advanced Pharmacy Practice Experience.

PROFESSIONAL ACTIVITY :

Patient Counseling and education

- ◆ My Main Work to See the patient Upon Discharge and do counseling to the patients or the care givers regarding many aspects of their treatment:
- ◆ Treatment plan.
- ◆ Drug Food interactions.
- ◆ Drug Drug interactions.
- ◆ Adverse effects.
- ◆ Signs of toxicity and when to report to the physician.
- ◆ Duration of treatment.
- ◆ Storage of medications. and providing them with printed materials.
- ◆ My main patients are cardiac, renal, diabetic, Transplant patients and most of the high risk patients who are on High alert medications.

Medication reconciliation upon discharge

- ◆ This process of comparing a patient's medication orders to all of the medications that the patient has been taking.
- ◆ It is done to avoid medication errors such as omissions, duplications, dosing errors, or drug interactions by reviewing medication profile with the patient to assure it is correct and up-to-date.
- ◆ Ensure appropriate drugs and dosages are being used according to diagnosis and protocols.
- ◆ Discontinue all non-active medications.
- ◆ Renew all expired medications.
- ◆ OTC, herbal, and traditional medications to be reviewed and mentioned.

C. DEPARTMENT OF PHARMACY PRACTICE

5. Dr. Maitham Abdullah Al Hawaj

B. Pharm, King Saudi University, Ph. D. Virginia Commonwealth Uni, USA

ASSISTANT PROFESSOR, PHARMACOTHERAPY

TEACHING EXPERIENCE : Teaching and facilitating various theoretical and practical scientific sessions (Therapeutics, Physiology, Pathophysiology) for students of different classes .

RESEARCH INTEREST:

1. Drug for Thrombotic and Non-Thrombotic Disorders

PUBLICATIONS :

- ◆ **Al Hawaj MA**, Martin EJ, Venitz J, Barrett JC, Kuhn JG, Nolte ME, Brophy DF. Monitoring rFVIII prophylaxis dosing using global haemostasis assays. *Haemophilia*. 2013;19(3):409–14.

PRESENTATIONS:

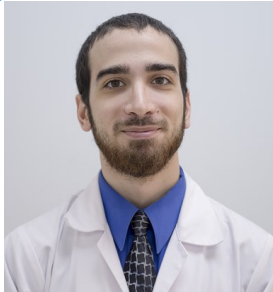
1. Alhammad AM, Alhashem YN, **Al Hawaj MA**, Van Tassell BW, Harpe SE. Is anemia associated with heart failure? NHANES database (2005–2006) analysis [abstract PCV27]. *Value in Health*. 2011; 14(3):A37.
2. Alhammad AM, **Al Hawaj MA**, Alhashem YN, Harpe SE, Smith WR, Brophy DF. Drug-induced acute renal failure using the FDA adverse event reporting system database [abstract PUK3]. *Value in Health*. 2011;14(3);A74
3. **Al Hawaj MA**, Martin E, Barrett JC, Kuhn J, Nolte ME, Brophy DF. Characterizing global hemostasis throughout the FVIII prophylaxis dosing interval: a pilot study. XXX International Congress of the World Federation of Hemophilia; 2012 July 9; Paris, France.
4. **Al Hawaj M**, Martin E, Venitz J, Barrett JC, Kuhn J, Nolte ME, Brophy DF. Pharmacokinetic-pharmacodynamic (PK/PD) modeling of factor VIII using its plasma concentration and global hemostasis biomarkers. XXX International Congress of the World Federation of Hemophilia; 2012 July 9; Paris France.



*Room Location : College
of Clinical Pharmacy,*

Ph.: 03-5 817175

Email :
hawaj@kfu.edu.sa



Room Location : College of
Clinical Pharmacy,
Room No : 1034
Ph.: 035817175
Email :
asarsour@kfu.edu.sa

6. Dr. Ahmad S. Sarsour

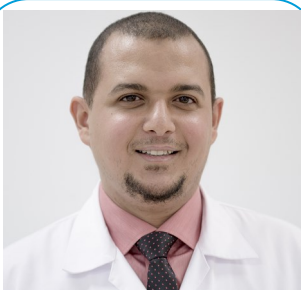
Pharm D & B Sc, University of Toledo, USA

LECTURER

TEACHING EXPERIENCE : Two years of teaching experience in Pharmaceutical care related subjects and clinical training.

PRESENTATIONS|:

- ◆ Speaker at the "Community Pharmacist's Role In Diabetes Management" in Dammam Saudi Arabia
 - Overview of Insulin Products
 - Premixed Insulin use in type 2 diabetes
 - Administration and storage of Insulin products
- ◆ Speaker at "Clinical Pharmacy Practice Symposium" at Aljabr-ENT hospital in Al-Ahsaa Saudi Arabia
 - JNC 8 Updates :



Room Location : College of
Clinical Pharmacy,
Room No : 1067
Ph.: 035817175
Email :
asarsour@kfu.edu.sa

7. Dr. Ahmad Adel

M. Pharmacy Universiti Sains Malaysia (USM), Penang, Malaysia

LECTURER

TEACHING EXPERIENCE : Three years of teaching experience in Pharmaceutical care related subjects and clinical training.

PUBLICATIONS:

Adel M. Aly and **Ahmad A. Mohammed** "Preparation and Evaluation of Sildenafil Rapidly Disintegrating Tablets". Volume 5, Issue 1, April–June, 2011. "International Journal of Pharmaceutical Sciences and Nanotechnology".

B. DEPARTMENT OF PHARMACY PRACTICE

8.Dr . Kareem Ahmed El-Fass

B. Pharm, Pharm D, University Of Alexandria, Egypt

LECTURER,

TEACHING EXPERIENCE : Teaching and facilitating various theoretical and practical scientific sessions (Pharmacology, Pharmacotherapeutics, Physiology, Toxicology, Pharmacokinetics, Biochemistry, Cell and Molecular Biology, Pharmaceutical Calculations) for students of different classes .

RESEARCH INTEREST:

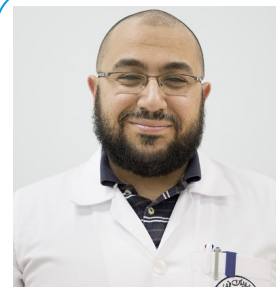
1. Drug-related problems identification and evaluation
2. Pharmaceutical Care in community pharmacy
3. Antibiotic Drug-Use Evaluation

PRESENTATIONS:

1. Dose adjustment in Renal Patients (Alexandria Pharmacists' Syndicate)
2. Phenytoin Therapeutic Drug Monitoring...Practical Approach (Alexandria Pharmacists' Syndicate)
3. Albumin use in Kidney and Liver Diseases (Weekly Scientific Club of Kidney and Urology Centre in Alexandria , Egypt)
4. DyslipidemiaNew Highlights (Alexandria Internal Medicine Scientific Club)

PROFESSIONAL SERVICES

1. Reviewing Patient records and developing Pharmaceutical care plans and recommendations regarding Drug-related problems
2. Provide timely responses to requests for drug information for patients and health care providers
3. Patient education regarding discharge medications
4. IV admixture for Chemotherapy and adjuvant medications
5. Management of chemotherapy-related symptoms
6. Dose adjustment of medications given to CKD patients and Patients on different modes of Dialysis



*Room Location : College
of Clinical Pharmacy,*

Ph.: 03-5 817175

*Email : Kel-
fass@kfu.edu.sa*

*Room Location : College of
Clinical Pharmacy,
Ph.: 03-5817175
Email :
miflaifel@kfu.edu.sa*

Presentations

◆ *The role of clinical pharmacy in hospital settings and how to establish a clinical pharmacy department in Thabet Thabet Hospital Thabet Thabet Hospital/ Palestine February 3 2011*

◆ *Clinical Pharmacy Practice 2 Symposium, Al Jabr ENT & OPH Hospital Al hasa/KSA. April 24 2014*

◆ *AlAhasa Pharmaceutical Conference & Exhibition (A-PhaCE). A-PhaCE 15-16 October 2014. KSA*

◆ *Cardiac Care Conference 27/9/2014. Al khobar/ KSA*

*Room Location : College
of Clinical Pharmacy,*

Ph.: 03-5817175

*Email :
hshokr@kfu.edu.sa*

9. Dr. Mais Hasan Mahmoud Iflaifel

B.Sc AL Ahliyya Amman University . M. Pharmacy Jordan University of Science & technology

LECTURER

WORK EXPERIENCE : 3 Years of training experience in Institutional Pharmacy Practice Experience And Advanced Pharmacy Practice Experience.

RESEARCH INTEREST: Clinical researches that asses and evaluate the clinical pharmacist services and its impact on healthcare systems: .

1. Cardiovascular disease management and prevention (myocardial infarction, hypertension, Ischemic heart disease), how to optimize the use therapeutic agents to treat and prevents cardiovascular events
2. Respiratory tract diseases especially asthma, patient education and optimizing the use of their medication and devices.
3. Evaluate the role of clinical pharmacist in diabetes management
4. Emphasize the importance of collaborative work between pharmacist and other health care team to optimize the health of patients.
5. Nephrology and oncology disease management.

PUBLICATIONS

1. Linda M. Tahaine, Abla M. Albsoul-Younes, Mais H. Iflaifel, Iman Al-Shehabe. Evaluating Unfractionated Heparin Fixed Dosing Protocol and Establishing an Institutional Therapeutic Range for UFH in Hospital Setting in Jordan. Clinical and Applied Thrombosis/Hemostasis 2014, Vol 20(1) 73-77.
2. Sayer I. Al-azzam, Karem H. Alzoubi, Mais H. Iflaifel, Fatimah A. AlMahasneh. Implementation of clinical pharmacy services at a university hospital in Jordan. International Journal of Pharmacy Practice 2013, 21, pp. 337–340.
3. Mais. H. Iflaifel , Mohammad F. Zaitoun., Mohammed .A. AL Ghamdi, Loloah. A. Almulhim. Awareness of health care providers about new guidelines of dyslipidemia. Submitted to the European Journal of Pharmaceutical Sciences

10. Dr. Ha1a Abdelmohaimen A Shokr

B.Sc., Pharm, D Alexandria university, Egypt. Clinical Pharmacy Diploma Collage of Cambridge "

LECTURER,

TEACHING EXPERIENCE : 2 Clinical lecturer in clinical pharmacy department – Faculty of pharmacy Alexandria university.

C. DEPARTMENT OF PHARMACY PRACTICE

11. Dr. Amal Khalil Ahmad Abu Alhomos*B. Pharm, M. Ph, Jordan University of Science and Technology, Jordan***LECTURER,**

TEACHING EXPERIENCE : 7 years of experience in teaching Therapeutics, physical assessment, Pharmaceutical Care. And training experience in Institutional Pharmacy Practice Experience And Advanced Pharmacy Practice Experience.

CURRENT PROJECTS & RESEARCH INTEREST :

1. Any topic related to pharmacy practice and clinical benefits.
2. "Detection of Leaflet Information Error in Mucolytics, Systemic Nasal Decongestants and Cough Preparations in Jordan

PROFESSIONAL ACTIVITY :

- ◆ In King Fahad Hospital/ Corporate with physician to obtain a correct regimen for patient case/ 2011-until now.
- ◆ Community Service: In Al Othium Mall-Second Semester 2011-2012.
- ◆ Counseling about Patient's medications.

12. Dr. Dalia Mohamed Elmaghraby*B. Pharm, B. Biotech, Pharm D, Alexandria university, Egypt.***LECTURER,**

TEACHING EXPERIENCE : 2 years of experience in teaching Therapeutics, And training experience in Institutional Pharmacy Practice Experience And Advanced Pharmacy Practice Experience.

13. Dr. Hala Abdelmohaimen A Shokr*M. Sc., University of Medical Sciences and Technology, Sudan***LECTURER,**

TEACHING EXPERIENCE : Clinical lecturer in clinical pharmacy department

Presentations

- ◆ Attended course in Sterile Compounding of Preparations (Blue Nile Centre-May2013)-Sudan
- ◆ Attended Acute Coronary Syndrome Management workshop held by Sudanese Clinical Pharmacists Association-August 2014 in Khartoum-Sudan

Room Location : College of Clinical Pharmacy,

Ph.: 035899830

*Email :
Aabualhomos@kfu.edu.sa*

Room Location : College of Clinical Pharmacy,

Ph.: 03-5899827

*Email :
Delmaghraby@kfu.com*



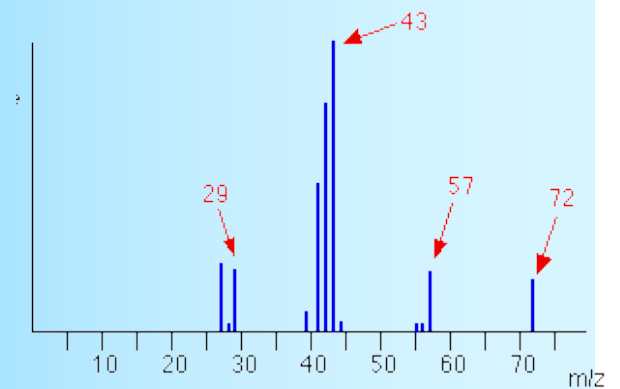
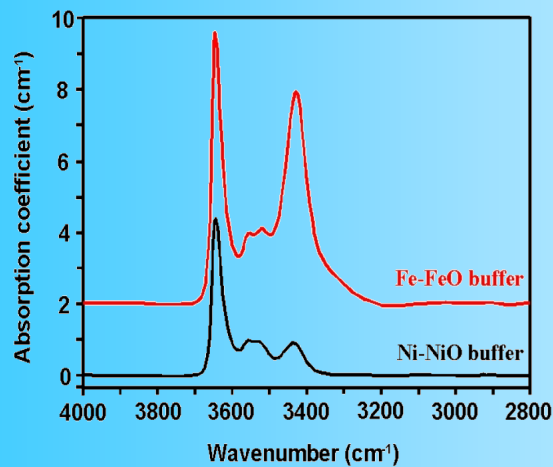
Room Location : College of Clinical Pharmacy,

Ph.: 03-5817175

*Email :
mmali@kfu.edu.sa*



RESEARCH INSTRUMENTS



“Analysis of a sample is not the true aim of analytical chemistry... the real purpose of the analysis is to solve a problem.”



Gas Chromatograph / Mass Spectrometer (GC/MS)

GCMS is the technique for separation of thermally stable and volatile compounds and detection of these compounds by mass spectrometer.

Make / Model : Shimadzu, GCMS-QP2010

Carrier gas : Helium

Mass Range : 10-1500 m/z

Resolution : $R > 2M$ (FWHM)

Maximum temp : 450°C

This instrument is used for qualitative and quantitative determination of organic and Pharmaceutical compounds in biological samples, separation and identification of unknown compounds, trace analysis and determination of isotopic contents, analysis of herbicides, pesticides, structural elucidation of molecules etc.



Liquid Chromatograph / Mass Spectrometer (LC/MS)

LC-MS, (alternatively **HPLC-MS**) is a technique that combines the physical separation capabilities of HPLC with the mass analysis capabilities of mass spectrometry. If the molecules are a nonvolatile and polar macromolecule, the choice would be LCMS for the separation and identification.

Make / Model : Agilent LCMS- 1200 series

Mass Range : 10-1500 m/z

Mass Accuracy : ± 0.13 U

LC-MS is very commonly used for qualitative and quantitative analysis in pharmacokinetic studies of pharmaceuticals, proteomics, Drug discovery and development.

High Performance Liquid Chromatography (HPLC)

HPLC, the most powerful of all the chromatography techniques, can often easily achieve separations and analyses that would be difficult by other techniques. HPLC methods use a special kind of column and a mobile phase

Make / Model : Shimadzu class LC-20AT

Detectors : UV/Visible and fluorescence

HPLC is one of the most widely used analytical techniques. The speed, versatility and reliability of HPLC have been major factors for its acceptance both as a research tool and for routine analysis. With a variety of column packings and solvents, HPLC can be used in various areas.



FTIR Spectrophotometer

FTIR can be routinely used to identify the functional groups and identification/quality control of raw material/finished products. High signal to noise ratio makes FTIR more useful for difficult samples.

Make/Model : Shimadzu, FTIR-8400S

scan range : 4000 cm^{-1} to 400 cm^{-1}

Resolution : 1 cm^{-1}

IR absorption has numerous applications in qualitative and quantitative analysis.



UV-Visible Spectrophotometer

The optical absorption by samples in the ultraviolet and visible regions are measured with this instrument. The absorption of light is directly proportional to the concentration of the components. In this region of the electromagnetic spectrum, molecules undergo electronic transitions.

Make/Model : Shimadzu, UV-1700

Spectrum Range : 1100-190 nm

Wavelength accuracy : $\pm 0.1\text{ nm}$

UV/Vis spectroscopy is routinely used in the quantitative determination of solutions of transition metal ions and highly conjugated organic compounds.





Atomic Absorption Spectrophotometer

Atomic absorption spectrophotometry provides accurate quantitative analyses of trace elements (ppm level) in a variety of samples from different fields including organic matters, pharmaceutical samples, medical samples, rocks etc. Samples are analyzed in solution form, so solid samples must be leached or dissolved prior to analysis.

Make / Model	:Shimadzu, AA-6300
Carrier gas	:Acetylene
Wavelength Range	:185-900 nm
Detector	: Photo multiplier and semiconductor

This instrument is used for Qualitative and Quantitative determination of metal ions in biological samples. Further it is very useful in the quality control of most of the industries.



Spectrofluorophotometer

Spectrofluorophotometer is a type of electromagnetic spectrophotometer which analyzes fluorescence from a sample. It involves using a beam of light, usually ultraviolet light, that excites the electrons in molecules of certain compounds and causes them to emit light of a lower energy.

Make / Model	:Shimadzu, RF-5301PC
Wavelength Scan Range	: 220-900 nm and zero order light
Wave length accuracy	: ± 1.5 nm
Detector	: Photomultiplier tube

It is used in biochemical, medical, and chemical research fields for analyzing organic compounds.

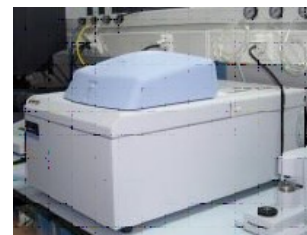
"Anger is a destroyer for the heart of a sage; and he who does not have his anger under his control does not have his wisdom under his control, either."

Differential Scanning Calorimeter (DSC)

Differential scanning calorimetry is a thermoanalytical technique in which the difference in the amount of heat required to increase the temperature of a sample and reference are measured as a function of temperature. Both the sample and reference are maintained at nearly the same temperature throughout the experiment.

Make / Model	: Perkin Elmer
Temperature Range	: -150 °C to max. 700°C
Measurement range	: ± 350 mW at RT
Temperature Accuracy	: $\pm 0.2^\circ\text{C}$
Temperature reproducibility	: $\pm 0.1^\circ\text{C}$
Heating rate	: RT to 700°C in 7 min
Cooling rate	: + 100°C to - 100°C in 15 min

The main application of DSC is in studying phase transitions, such as melting, glass transitions, or exothermic decompositions, chemical kinetics etc.



Thermal Cycler

The TC-412 provides the researcher with the means of accurately controlling the temperature profile of samples.

Make/Model	: Techne/ TC 412
Temperature	: Range : 4 °C to 99 °C
Temperature accuracy	: $\pm 1^\circ\text{C}$
Heating rate	: 2.5 °C/sec
Cooling rate	: 1.3 °C/sec

It has many scientific applications including DNA amplification, sequencing and polymerase chain reactions (PCR).





Tunable Microplate Reader

The VERSAmax reader is used to detect biological, chemical or physical events of samples during different types of assay. The narrowly focused light beam and optical design give the same high performance with round bottom, flat bottom, or half area well plates. The dual-wavelength readings report the actual absorbance at each wavelength. The reader also provides controlled temperatures, up to 45°C, for kinetics at ambient and elevated temperatures.

Make / Model	: VERSAmax
Wavelength Range	: 340-850 nm
Wavelength Accuracy	: ± 1.0 nm
Detector	: Silicon Photodiode

The VERSAmax reader covers a wide range of applications. Microbial growth/ MIC IC 50s/LD 50s, Endpoint ELISAs/EIAs, Cytoproliferation/cytotoxicity, Colorimetric protein, Kinetic ELISAs/enzyme assays, Platelet aggregation Bacterial identification, Clotting/clot lysis.



Polarimeter

Polarimeter can be used to measure various optical properties of a material, including linear birefringence, circular birefringence (also known as optical rotation or optical rotary dispersion), linear dichroism, circular dichroism and scattering.

Make/ Model	: Bellingham, Polarimetry ADP220.
Range	: -90 to $+90$ °A
Resolution	: 0.01
Accuracy	: 0.02
Light source	: LED/Interference filter (589.3 nm)
Reading time	: 15 sec
Temperature	: 5-40 °C
Optical density range	: 0.0 to 2.0 OD

Used for the determination of PURITY, Specific Rotation, Concentration and inversion of optically active compounds.

Densitometer

Double beam scanning densitometer is employed for both the *accurate identification* of the spot position and the *precise quantitative estimation* of TLC plate, one-dimensional and two-dimensional electrophoregrams, and micro plates content. The zigzag scanning method using flying spot method will eliminate errors caused by irregular shape of chromatographic spots.



Make /model	: Shimadzu, CS-9301PC
Measuring wavelength range	: 200-650 nm
Photometric system	: Double-beam monitor, dynode feedback system
Measuring mode	: Transmission- or reflection-absorption photometry in single or dual wavelength method.
Sample scanning mode	: Zigzag scanning with the flying spot method
Scanning range	: X direction 5 ~ 195 mm Y direction: 2 ~ 185 mm
Scanning speed	: Linear scanning: 125 mm/min. Zigzag scanning: 0.4W x 0.4H mm/min

The reliable densitometry of TLC, DNAs, electrophoretic gels, micro plates and even study of solid surface can be used for qualitative and quantitative analysis of proteins and DNAs.

The only disability in life is a bad attitude.



Elemental Analyzer

This analyzer measures the amount of C, H, N, O, and S in samples by the rapid combustion of small amounts (1-2 mg) of the sample in pure oxygen (Dumas method or "flash combustion"). Catalysts are present at high temperature of around 1100° Celsius.

Make / Model	: Euro EA3000
Front Furnace	: up to 1100°C
GC Oven	: temperature from 40 up to 190°C
TCD detector	: Thermal Conductivity detector
Lab Conditions	: Room Temp. max. 30°C, Humidity max 75%.
Gas Needed	: He:99.995% (GC Grade), O ₂ :99.998% (Transistor grade)

Micro and macro determination of total nitrogen, carbon, sulphur and hydrogen present in a wide range of organic and inorganic compounds of any type, soil, plant material, pharmaceuticals, foodstuffs and drinks, waste material, carbon and oil, tobacco, polymers and many more.

Gel Electrophoresis

Gel electrophoresis is process in which molecules (such as proteins, DNA, or RNA fragments) can be separated according to size and electrical charge by applying an electric current to them while they are in a gel.



Make/ Model	: Biotech Fisher, MASETRO 101.
Used power in standby mode	: Developing unit 6 W Migration mode 6 W
Used power in running mode	: Developing unit 150 W Migration mode 16 W
Fuses	: 2x 1,25 A slow Blow (developing unit) 2 x 500mA Slow blow (Migration unit)

Speed : :approx. 8 tests / hour

Gel electrophoresis is used in forensics, molecular biology, microbiology and biochemistry. Gel electrophoresis is used to provide genetic information, to separate and identification of proteins, scientific dyes. Human DNA can be analyzed to provide evidence in criminal cases, to diagnose genetic diseases, and to solve paternity cases.

Benchtop Tablet Press

Rotary tablet press is used for pressing various granular/powdered raw material into shaped tablets or compacts. It is an important type of tablet punching machine. Also known as multi-station tableting presses, rotary tablet press make use of a punch and die system together with multiple stations or punches for compacting raw material into tablets.

Make /model : Erweka, TRB 16

For round - and odd shaped tablets

TRB 16 max. diameter / length 18 mm

The compression force can be adjusted up to 4 tons

Max. Filling Depth 17 mm

Up to 38,000 tablets/h (TRB16) maximum output.

Rotary tablet press is used to press medicinal tablets, catalysts, calcium coffee pills, candies. It can also be used to compress various tablets of pesticide and fertilizer in small-batch production.



Freeze-dryer

Freeze drying, (lyophilization) uses both a vacuum and a freezing process to remove water from perishable foods and medicines. The result is a product that can be stored at room temperature for years without spoilage, or packed in limited storage spaces and reconstituted with water later. Freeze drying is also used in the pharmaceutical industry to preserve the integrity of air or moisture-sensitive medicinal compounds, particularly those of biological origin, such as enzymes, blood plasma, vaccines, etc.



Experience is a hard teacher because she gives the test first, the lesson afterwards.



King Faisal University
College of Clinical Pharmacy

PO Box 400, Al-Ahsa:31982

Phone: 00966-3-5817175,

00966-3-5800000, Extn:1783

Fax: 00966-3-5817174

E-mail: clinicalpharmacy@kfu.edu.sa



“When man takes one step to God, God takes ten steps towards him. But the first step is to be taken by man”