



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

**STAFF RESEARCH  
HANDBOOK**



**COLLEGE OF CLINICAL PHARMACY**

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**2012**



# STAFF RESEARCH HAND BOOK

2012

## 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.

## 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.

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## 1. 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. Munder Zagaar; An Dao; Amber Levine; **Ibrahim Alhaider**; Karim Alkadhi, Regular Exercise Prevents Sleep Deprivation Associated Impairment Of Long-Term Memory, And Synaptic Plasticity In The Cal Area Of The Hippocampus, Sleep, (Accepted) 2013.
2. Anroop B. Nair, Rachna Kumria, Sree Harsha, Mahesh Attimarad, Bandar E. Al-Dhubiab, **Ibrahim A. Alhaider**, *In vitro* techniques to evaluate buccal films, Journal of Controlled Release, Volume 166(1), 2013, 10–21.
3. 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, Chemistry Central Journal, 6, 105, 2012.
4. Mohammad T. Elnakish, Fatemat Hassan, Duaa Dakhllallah, Clay B. Marsh, **Ibrahim A. Alhaider**, and Mahmood Khan Mesenchymal,



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ialhaider@kfu.edu.sa*

### Research Grants

#### Received :

- ◆ *Influence of captagon on spatial learning and memory at the behavioral level, KFU annual research grant, 2012-2013, 52000 SAR.*
- ◆ *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.*

5. Munder Zagaar, **Ibrahim Alhaider**, An Dao, Amber Levine, Ahmed Alkarawi, Mariam Alzubaidy, Karim Alkadhi \_The beneficial effects of regular exercise on cognition in REM sleep deprivation: Behavioral, electrophysiological and molecular evidence, *Neurobiology of Disease*, 2012; 45:1153–1162.
6. **Ibrahim A. Alhaider**, Abdulaziz M. Aleisa, Trinh T. Tran, Karim A. Alkadhi Sleep deprivation prevents stimulation-induced increases of levels of P-CREB and BDNF: Protection by caffeine, *Molecular and Cellular Neuroscience*, 2011;46; 742–751.
7. 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.
8. A.M. Aleisa, G. Helal, **I.A. Alhaider**, K.H. Alzoubi, M. Srivareerat, T.T. Tran, S.S. Al-Rejaie, and K.A. Alkadhi. Acute Nicotine Treatment Prevents REM Sleep Deprivation-Induced Learning and Memory Impairment in Rat. *Hippocampus*. 2011, 21(8), 899–909.
9. **Alhaider IA**, Aleisa AM, Tran TT, Alzoubi KH, Alkadhi KA; Chronic caffeine treatment prevents sleep deprivation-induced impairment of cognitive function and synaptic plasticity; *Sleep*; (2010);33(4):437-444.
10. **Alhaider IA**, Aleisa AM, Tran TT, Alkadhi KA; Caffeine prevents sleep loss-induced deficits in long-term potentiation and related signaling molecules in the dentate gyrus; *Eur J Neurosci*; (2010);31;1368-1376.

### **Presentations and Abstracts**

1. 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]
2. 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]

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

3. 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]
4. 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]
5. T. T. Tran, A. T. Dao, M. Srivareerat, **I. A. Alhaider**, K. A. Alkadhi; Chronic psychosocial stress reveals cognitive impairment in an at-risk rat model of Alzheimer's disease: Electrophysiological and molecular studies in the dentate gyrus. Soc Neuroscience, 2010.
6. M. Zagaar, **I. A. Alhaider**, K. Alkadhi; Effect of chronic endurance exercise on spatial memory impairment in acutely sleep-deprived rats. Soc Neuroscience, 2010.
7. **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.
8. **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.
9. 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.
10. 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.
11. 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.
12. **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.
13. 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.
14. K. A. Alkadhi, K. H. Alzoubi, **I. A. Alhaider**, A. M. Aleisa, M. Srivareerat. Chronic i.c.v infusion of  $\beta$ -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.*



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#### **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 21<sup>st</sup> – 23<sup>d</sup> October 2011*
- ◆ *46<sup>th</sup> ASHP Midyear Clinical meeting & exhibition at New Orleans Ernest N Morial Convention Center, New Orleans, USA*
- ◆ *ACS conference, San Diego, USA from 25<sup>th</sup> March to 29<sup>th</sup> 2012*
- ◆ *ASHP 2012, summer meeting and exhibition, Baltimore, MD on June 9<sup>th</sup> to 13<sup>th</sup>*
- ◆ *AAPS (The American Association of Pharmaceutical Scientist), Annual Meeting and Exposition was held from October 14<sup>th</sup> to 18<sup>th</sup>, 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. **Bander E Al-Dhubiab.** Formulation and *in vitro* evaluation of gelatin nanospheres for the oral delivery of selegiline. Curr. NanoSci. (In press) (2011 Impact factor 1.8).
2. Anroop Nair AB, Kumria R, Harsha S, Attimarad M, **Al-Dhubiab BE**, Alhaider IA. In vitro techniques to evaluate buccal films. J Control Release. (In press) (2011 Impact factor 6.5).
3. Sree harsha, Mahesh 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., (In press) (2011 Impact factor 1.5).
4. 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. (In press). (2011 Impact factor 1.5).
5. **Bandar E Aldhubai**, Evaluation of Olive Oil Ester-Buffer System for the Development of Piroxicam Micro-Emulsion. King Faisal University Journal, (In press).

*He who travels in the search of knowledge, to him God shows the way of Paradise.*

6. **Bandar E Aldhubaib**, Development and evaluation of fast dissolving tablets of glimepiride. Zagazig J. Pharm. Sci., (In press).
7. 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. (2011 If 1.45).
8. 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, Chem. Cent. J. 2012. 6:105. (2011 Impact factor 3.3).
9. **Bandar E Aldhubai**, Pharmaceutical applications and phytochemical profile of *Cinnamomum burmannii*, Pharmacog. Rev., 2012, 6: 125 – 131.
10. Mahesh Attimarad, KK Mueen Ahmed, **Bandar E Aldhubaib**, Sree Harsha, High-performance thin layer chromatography: A powerful analytical technique in pharmaceutical drug discovery, Pharm. Methods, 2011, 2, 71-75.

### **Research Grants (DSR, King Faisal University)**

1. Formulation and evaluation of buccal films impregnated with selegiline loaded nanospheres, 2013, 68400SAR
2. Preparation and Evaluation of Spraydried Oral Mucoadhesive Noveon Aa-1 Polycarboxyl Nanoparticles Containing Anti-Diabetic Drug, 2013, 74400 SAR
3. Development of a novel non invasive technique for therapeutic drug monitoring in epilepsy patients, 2013, 65900 SAR
4. Development and validation of Stability indicating Chromatographic method for simultaneous determination of Statin and Gliptin , 2013, 57900SAR
5. “Mucoadhesive microspheres containing a new antidiabetic drug: Preparation and in-vitro characterization” – 2012., SAR 87400
6. “Validated Liquid Chromatographic method Development for Simultaneous estimation of Metformin and Gliptins”. – 2012, SAR 63100
7. “Self Emulsifying Drug Delivery Systems (SEDDS) for Oral Delivery of Lipophilic Anti-Muscarinic Drugs” - 2012, SAR 66,665/-

### **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*



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- ◆ *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 Rshan. 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<sup>®</sup> 150 mg Capsules in Healthy Human Volunteers". Sabah H. Akrawi, Ziad Al-Talla', Sabah D. Salim and Loay Rashaan. Iraqi Journal of Pharmacy, Vol 3. No. 1, 2003.
7. 'Bioequivalence Assessment of Hypoten<sup>®</sup> 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 Erbil'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.*



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**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 :** 11 years of experience in teaching pharmaceu-  
tics, pharmacokinetics & biopharmaceutics and physical pharmacy.

#### RESEARCH INTEREST :

1. Targeted Drug Delivery Systems
2. Novel Drug Delivery Systems

#### LIST OF PUBLICATIONS:

1. Nair AB, 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 2012, October 12<sup>th</sup> (Impact Factor- 1.49)
2. Nair AB, Kumria R, Harsha S, Attimarad M, Al-Dhubiab BE, Alhaider IA, In vitro techniques to evaluate buccal films. Journal of Controlled Release 2012, December 5<sup>th</sup>. (Impact Factor- 6.49)
3. 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)
4. Harsha, S., "Dual drug delivery system for targeting H. pylori in the stomach: preparation and in vitro characterization of amoxicillin-loaded Carbopol® nanospheres. International Journal of Nanomedicine", 2012. 7(1), 4787 - 4796. (Impact Factor 3.14)
5. Sree Harsha, Mahesh Attimarad, Tanveer A. Khan, Anroop B. Nair, Bandar E. Al-Dhubiab, Sighatullah Sangi and Arshia Shariff, Design and formulation of mucoadhesive microspheres of sitagliptin, Journal of Microencapsulation, Nov 12<sup>th</sup>, 2012 (Impact factor 1.5).
6. 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).
7. 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.

8. Sibghatullah Sangi, Sree Harsha Sahibzada Tasleem ur-Rasool, Afzal Haq Asif. Formulation and evaluation of mucoadhesive Nigalla Sativa and Olive oils for vaginal Infections, Der Pharmacia Letter, 2011, 3(2): 39-46.
9. Usha GK, Balakeshwa. R, N Sree Harsha, Rajarajan and K. Ramesh. A Review of Pharmacoepidemiological Methods: Intensive hospital monitoring and medical record linkage, Pharmacology online 1, 2010, 1145.
10. Shantha Kumar V, Shobha Rani R. H and N. Sree Harsha. High-Performance Liquid Chromatographic Determination of Plasma Theophylline Levels in the Presence of Caffeine and Dietary Xanthine Metabolites, Archives of Pharmaceutical Research, Year 2010, Volume 2 (1), 274.
11. 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)", Pharmacology online journal, 2009, Vol 3, 791 – 799.
12. K. Mahalingan, S. Rajarajan, Benn Baby, Sree Harsha, Formulation and Evaluation of Clarithromycin Extended Release Tablets, Journal of Pharmaceutical Sciences and Research, 2009, Vol 1(3), Pages 97-100.
13. N. Sree Harsha, S. Rajarajan, Chandramouli. R, Srinivasan. S and Shobha rani. Preparation and Evaluation of Gentamicin Biodegradable Polymeric microspheres, Archives of Pharmaceutical Science and Research, 2009, 1, 81 -86.
14. Sree Harsha, Chandra mouli and Shobha rani. Ofloxacin targeting to lungs by way of microspheres, International Journal of Pharmaceutics, 2009, Volume 380, Pages 127 – 132,
15. Sree Harsha and Mohammed Al-Wesali. Preparation and evaluation of nanospheres for lung targeting, International Journal of Nano and Biomaterials, 2009, 2(125), 143-146
16. N. Sree Harsha and R. H. Shobha Rani. Drug Targeting to Lungs by way of Microspheres, Archives of Pharmacal Research, 2006, Volume 29 (7), Pages 598 – 60.
17. S Bhaskaran, Sree Harsha. Hydrodynamic Oral Floating Controlled Delivery Of Diltiazem Hydrochloride, Eastern Pharmacist, 2001, Volume 44(525), Pages 105-108.
18. S Bhaskaran, Sree Harsha. Effect of permeation enhancer and iontophoresis on permeation of atenolol from transdermal gels, Indian Journal of Pharmaceutical Sciences, 2000, Volume-62(6), Pages 424 – 26.

**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.

**KFU GRANTS:**

*Sree Harsha Mahesh Attimarad and Tanveer Ahmad Khan. "Design and evaluate oral mucoadhesive microspheres of new antiglycemic drug" (2011-2012) (88400 SR)*

*Mahesh Attimarad, Ahmaed O. Alnajjar, Shree Harsha N Simultaneous Estimation Of Metformin And Miglitol By High Performance Liquid Chromatography (2011-2012) (92,400 SR).*

*Dr. Sree Harsha, Dr. Mohammed Dr. Al-Wesali, Dr. Sahibzada Tasleem Rasool Exploring the Anti-Leishmaniasis Activity of Phoenix Dactylifera (Date Palm) (99,400 SR) (Completed)*

*Mahesh Attimarad, Ramachandra setty, , Sree Harsha Nagaraja, Simultaneous Estimation of Flavoxate HCl and Ofloxacin by High Performance Liquid Chromatography. (71,400 SR) Completed)*

**KFU 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 Attimard, 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 Attimard, 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.*

**3. Dr. Sree Harsha****Presentations :**

1. An LC-MS method for simultaneous determination of ofloxacin and cefixime in human plasma: MSACL, San Diego, CA, USA, 2013 (Accepted).
2. Skin Permeation and Dermatokinetics of Ciclopirox Olamine, A. B. Nair, B. E. Al-Dhubiab, M. Attimard, S. Harsha, I. A. Alhaider, 2012 AAPS Annual Meeting and Exposition, McCormick Place, Chicago.
  1. The effect of process parameter on preparation of biodegradable polymeric nanospheres, ICNAM 2009, International Conference for Nanotechnology and Advanced Materials, University of Bahrain, BAHRAIN.
  2. Preparation and evaluation of Nanospheres: Liver Targeting, ICNAM 2009, International Conference for Nanotechnology and Advanced Materials, University of Bahrain, BAHRAIN.
  3. Determination of Machiavellianism and its impact on sales performance amongst pharmaceutical sales representatives; a questionnaire survey". 4<sup>th</sup> Malaysian Pharmaceutical Society Pharmacy Scientific Conference dated 10-13 June, 2009, Universiti Sains Malaysia, Penang, MALAYSIA.
  4. Carboplatin Microspheres Targeting to Lungs: Preparation and Evaluation", 4<sup>th</sup> Malaysian Pharmaceutical Society Pharmacy Scientific Conference dated 10-13 June, 2009, Universiti Sains Malaysia, Penang, MALAYSIA.
  5. Preparation and evaluation of nanospheres for lung targeting, ICON 008, Jeddah, SAUDI ARABIA, 2008.
  6. Formulation and evaluation of microspheres of gentamicin sulphate, International Pharmaceutical Federation (F.I.P) GERMANY, 2001.
  7. Preparation and evaluation of microspheres of gentamicin sulphate. 53<sup>rd</sup> Indian Pharmaceutical Congress, DELHI, INDIA, 2001.
  8. Preparation of self-cross linked gelatin microspheres. 52<sup>nd</sup> Indian Pharmaceutical Congress. HYDERABAD, INDIA, 2000.
  9. Gelatin as a hydrogel for controlled release. 51<sup>st</sup> 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 :** 14 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. Ahmed O. Alnajjar, Abubakr M. Idris, **Mahesh V. Attimarad**, Adnan M. Al-dughaish 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).
2. **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).
3. 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)
4. 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 12<sup>th</sup>, 2012 (Impact factor 1.5).
5. 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).
6. 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.



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#### **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 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.*

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

7. 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.
8. 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.
9. Mahesh Attimarad. Rapid RP HPLC Method For Quantitative Determination Of Lornoxicam In Tablets. J. Basic Clin Pharm, 2010, 1(2), 115-118
10. Mahesh Attimarad, Liquid Chromatographic Determination of Flavoxate HCl In Pharmaceutical Formulation. J. Young Pharmacist, 2010, 2(3), 280-283.
11. 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,
12. 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.
13. Mahesh Attimarad and S. Mohan "An Expedient Synthesis of Methyl 5-(2-Amino 4-Arylthiazolyl) acetates using Microwave Irradiation" Journal of the Indian Chemical Society, 2006, 83(12), 1276-1279.
14. 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.
15. Mahesh Attimarad and S. Mohan "Synthesis of Hydroxy benzothioephene/naphthalene carboxylic acids as potent NSAIDs." Indian Journal of Heterocyclic Chemistry, 2005, 14, 285-288.
16. 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.

17. 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.
18. Mahesh Attimarad and G. Bagavant "Synthesis and Pharmacological evaluation of 4-Hydroxybenzothiophene-6-carboxylic acid Derivatives as NSAIDs", Asian Journal of Chemistry, 2004, 16 (2), 823-826.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. M Attimarad "Synthesis and Anti-inflammatory activity of 7-methyl-4-hydroxy benzothiophene-6-carboxylic acid and 7-methyl-4-(6-carboxy) benzothiophenoxyacetic 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**

#### **KFU GRANTS:**

*Mahesh Attimarad, Ahmed O. Alnajjar, Shree Harsha N Simultaneous Estimation Of Metformin And Miglitol By High Performance Liquid Chromatography (2011-2012) (SR 92400)*

*Sree Harsha Mahesh Attimarad and Tanveer Ahmad Khan. "Design and evaluate oral mucoadhesive microspheres of new antiglycemic drug" (2011-2012) (88400 SR)*

*Mahesh Attimarad, Ramachandra setty, Sree Harsha Nagaraja, Simultaneous Estimation of Flavoxate HCl and Ofloxacin by High Performance Liquid Chromatography. 2009-2010 (71400 SR)*

*"Studies on Metabolomic profiling of Saudi Arabian Medicinal Plants through the integration of Metabolomics and Fluxomics"*

*Antibiotic Alternatives to avoid the risk of bacterial resistance on human health*

**Reviewer for**  
*Biorganic and Medicinal chemistry and Indian Journal of Chemistry, Section B*  
*J of AOAC International, Journal of Young pharmacists.*



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**Post-Doc. Fellow:**  
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try, University of Sunder-

**Reviewer :** *Journal of Eth-  
nopharmacology (Elsevier),  
Pharmacognosy Magazine  
Pharmacognosy Reviews  
Pharmacognosy Research  
InPharm Communique  
Indian Journal of Pharmacology  
Current Science  
Indian Journal of Pharmaceuti-  
cal Sciences  
Indian Journal of Pharmaceuti-  
cal Education & Research  
Biomed  
African journal of Pharmacolo-  
gy  
Asian journal of Biotechnology  
Journal of Pharmacy and Toxi-  
cology*

## 5. Dr. Mueen Ahmed. K K

B-Pharm M-Pharm; Bangalore University, Ph.D. Dr. H. S. Gour University, india

**ASSISTANT PROFESSOR, PHARMACOGNOSY**

**TEACHING EXPERIENCE :** 13 years of teaching experience

**RESEARCH INTEREST :**

1. Screening of natural products for pharmacological activity with special emphasis on cardiovascular activity.
2. Plant metabolic profiling.

**LIST OF PUBLICATIONS:**

1. Hafez R. Madkor, Sherif W. Mansour and **Mueen A. Khalil**. Antiangiogenic Activities of Cinnamon, Black and Green Tea Extracts on Experimentally Induced Breast Cancer in Rats. *Asian Journal of Biochemistry*, 2012 ;7 (4):206-217.
2. Mahesh V Attimarad, Bander E Al-Dhubiab, Ibrahim A Alhaider, Anroop B Nair and Sree Harsha N, **Mueen Ahmed KK**, Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry, *Chemistry Central Journal*. 6.105, 2012
3. Tahir M Khan, Chohan M Shahzad, **Mueen KK Ahmed** and Saira Azhar. Attitudes of Emergency Department Staff towards the Role of Clinical Pharmacists in a Region of Saudi Arabia - A Pilot Study. *Tropical Journal of Pharmaceutical Research* June 2012; 11 (3): 477-483
4. Fehri B, Aiache J, **Mueen Ahmed KK**. Active spermatogenesis induced by a reiterated administration of *Globularia alypum* L. aqueous leaf extract. *Phcog Res* 2012;4:138-47
5. **Mueen Ahmed KK**, Gupta BM. India's contribution on antioxidants: a bibliometric analysis, 2001–10. *Scientometrics* [Internet]. 2012 Mar 18 [cited 2012 Mar 18]; [Online first]
6. **Mueen Ahmed KK**. Assessing citations with Google Scholar: A new feature. *J Pharmacol Pharmacother* 2012;3:75-6
7. **Mueen Ahmed KK**, Al Dhubaib BE. Zotero: A bibliographic assistant to researcher. *J Pharmacol Pharmacother* 2011;2:303-5
8. **Mueen Ahmed KK**, Mona lisa Baral. Polyphenols as antioxidants [Commentary], *Free radicals and Antioxidants*, 2011; 1[2]: 2-3 10.5530/ax.2011.2.2

*“Whoever has not made any improvements in one day has lost.”*

9. Mahesh Attimarad, **Mueen Ahmed KK**, Bandar Alduhaib, Sree Harsha. HPTLC: A Powerful Analytical Technique in Pharmaceutical Drug Discovery. *Pharmaceutical Methods*. 2011; 1[2] : 71-75.
10. Khan TM, Anwar M, **Mueen Ahmed KK**. A perspective for clinical pharmacy curriculum development and validation in Asian developing nations. *J Young Pharmacists*. 2011;3:151-4
11. **Mueen Ahmed KK**, Sanjib Bhattacharya, Subhankar Chakraborty. Free radicals and Cardiovascular diseases. *Free radicals and Antioxidants*. 2011; 1(1): 17-22.
12. Fehri B, **Mueen Ahmed KK**, Aiache J. The relaxant effect induced by *Allium sativum* L. bulb aqueous extract on rat isolated trachea. *Pharmacognosy Magazine*. 2011;7(25):14-18.
13. **Mueen Ahmed KK**, Madkor H, Attimarad M, Khan TM. Plant metabolomics-A novel method in phytochemical analysis. *Pharmaceutical Methods*. 2010;1(1):65-65.
14. Bhattacharya S, **Mueen Ahmed KK**, Kundoor V. Do medicinal plants possess significant activities? *Journal of Pharmaceutical Negative Results*. 2010;1(1):27-27.
15. Ahmad Hussain, GD Sofi, Raman Dang, RH Shobha Rani, **Mueen Ahmed KK**. Production of crude Drugs in Unani System of Medicine. *Pharmacognosy Journal*. 2010;2(16):55-57.
16. Ahmad Husain, GD Sofi, Tajuddin, RH Shobha Rani, **Mueen Ahmed KK**. Unani Medicine and Stability Studies - A Short Communication. *Pharmacognosy Journal*. 2010;2(16):53-54.
17. Attarwala H, Bathija D, Akhil A, Philip B, Mathew A, **Mueen Ahmed KK**. Homeopathy-the science of holistic healing: An overview. *Pharmacognosy Magazine*. 2010;2(5):7-14.
18. **Mueen Ahmed KK**. Systematic reviews in pharmacy-A vision forward. *Journal of Young Pharmacists*. 2009;1(3):191-191.
19. Kumar N, Khanam S, **Mueen Ahmed KK**, Dang R. Evaluation of some Indian medicinal plants for antibacterial activity. *Biomed*. 2007;2(2):206-211.
20. Kumar N, **Mueen Ahmed KK**, Raman Dang, Husain A. Antioxidant and antibacterial activity of Propolis from Tamilnadu zone. *J. of Medicinal plant Research*. 2008;2(11):212-216.

### ***Achievements***

*30 peer-reviewed re-search publications, 21 Editorials, 4 Books, 31 Continuing education articles and 16 conference papers.*

### ***Ongoing projects***

*Ibrahim Alhaider, Mueen Ahmed KK, Arun K, "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 Grant, Amount : 539000 SR (2012-2014)*

**Editorial Board Member**  
*Pharmanext, since 2008*  
*Asian Journal of Clinical*  
*Pharmacy, since 2007.*  
*APTI bulletin, since 2003.*  
*Asian Journal of Pharmaceu-*  
*tical and Clinical Research*  
*Pakistan Journal of Biologi-*  
*cal Sciences*  
*Journal of Natural Science,*  
*Biology and Medicine, 2010.*  
*Journal of Pharmacology*  
*and Pharmacotherapeutics,*  
*2010.*

**Awards:** *Received National*  
*Award titled "Career Award*  
*for Young Teachers (CAYT)"*  
*for the year 2008 from AICTE,*  
*New Delhi, India*

*Visiting research fellowship*  
*award from Unievrstiy of*  
*Sunderland, UnitedKingdom*  
*for the year 2004-2005.*

*Best outgoing student*  
*award for securing highest*  
*marks in Tenth standard- Al-*  
*Ameen Matriculation School,*  
*Tirupattur, India.*

21. Kumar N, **Mueen Ahmed KK**, Dang R, Sultana R. Antibacterial and Antioxidant Activity of Propolis from Gujarat zone. *Biomed.* 2008;2(4):390-395.
22. Kumar A, Hynes BG, **Mueen Ahmed KK**. Natural products as regulators of progenitor cells: Role in cardiovascular regenerative medicine. *Journal of Young Pharmacists.* 2009;1(1):28-35.
23. **Mueen Ahmed KK**, Khan MY, Shivananda BG. Cardiovascular Diseases and Role of Medicinal Plants as a Re-Emerging Health Aid. *Pharmacognosy Reviews.* 2009;3(5):8-21.
24. Nilesh K, Raman D, Kuntal D, **Mueen Ahmed K.K.** Unani system of Medicine- Introduction and Challenges. *Ethnobotanical leaflet.* 2009;(13):269-272.
25. Nayeemunnisa KR, Shivananda BG, **Mueen Ahmed KK**. Molecular correlates of ageing: Anti-oxidant and protective effects of feeding honey in aging albino rats. *Pharmacognosy Magazine.* 2006;2(5):52.
26. **Mueen Ahmed K.K.**, B.G.Shivananda and T.N.Shivananda,. Literature search in Medicinal Plant Research. *BIOMED.*2006;1(3): 270.
27. Vanaja. K, **Mueen Ahmed K K**, Hemanth P. Joshi, Shobha Rani, Sarsija Suresh. In vitro Drug tools in ADME/Tox screeing of drugs, *Pharma Review.* 2006. 61-68
28. **Mueen Ahmed KK**. HPTLC-An Overview. *Pharmacognosy Magazine.* 2005;1(3):114-115.
29. **Mueen Ahmed K K.**, A.C.Rana and V.K.Dixit. Web Resources in Phytopharmacognosy, *Indian J. Natural Products*, 2004;20: 16-32.
30. **Mueen Ahmed KK**, Rana AC, Dixit VK. Effect of Calotropis procera latex on isoproterenol induced myocardial infarction in albino rats. *Phytomedicine.* 2004;11(4):327-330.
31. **Mueen Ahmed KK**, Rana AC, Dixit VK. Free radical scavenging activity of Calotropis species. *INDIAN DRUGS-BOMBAY-*. 2003;40(11):654-655.
32. **Mueen Ahmed KK**, Rana AC, Dixit VK, Shivananda BG. Internet: Implications for the future of phytopharmacological research. *Indian journal of experimental biology.* 2003;41(11):1233-1238.
33. **Mueen Ahmed KK**, Rana AC, Dixit VK. Studies on calotropis species for antimyocardial infarction activity in albino rats. *Indian drugs.* 2002;39(11):613-615.

### Grants

Received AICTE's CAYT grant of Rs. 10.5 Lakhs for the period of three years from the year 2008.

Received KFU annual research Grant "Studies on Metabolomic profiling of Saudi Arabian Medicinal Plants through the integration of Metabolomics and Fluxomics"

## 6. Dr. Noor Kamil

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

### **ASSISTANT PROFESSOR, PHARMACOLOGY**

**TEACHING EXPERIENCE :** 8 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, 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
2. 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
3. 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)
4. Ashraf R, Ashraf I, N Kamil et al. Essential Hypertension. The Professional Medical Journal, Vol:14, No. 04 Oct, Nov, Dec 2007
5. 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.
6. 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 3<sup>rd</sup> Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi –Pakistan.



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

**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*

7. 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 3<sup>rd</sup> Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi –Pakistan.
8. 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 3<sup>rd</sup> Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi & International Pharmacy Conference & Exhibition, March 2003 Lahore- Pakistan.
9. 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
10. 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 Lahore- Pakistan.

**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 (Tryptopham & Valine) on behavioral Pharmacology of Haloperidol. Presented in International Pharmacy Conference & Exhibition, March 2003 Lahore- Pakistan.

## 7. Dr. Mohamed Aly M. Morsy

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

### **ASSISTANT PROFESSOR, PHARMACOLOGY**

**TEACHING EXPERIENCE :** Total of 22 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).

### **LIST OF PUBLICATIONS:**

1. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaai RA, Abdelrahman AM. Effect of coenzyme-Q10 on doxorubicin-induced nephrotoxicity in rats. *Adv Pharmacol Sci.* 2012; Article ID 981461, doi:10.1155/2012/981461.
2. 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.* 2012 doi: 10.1111/j.2042-7158.2012.01585.x.
3. 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.
4. 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.



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***Theses Co-Supervision:***  
*1 PhD thesis and  
7 MSc theses.*

***"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, spectrofluorophotometer 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.*

**7. Dr. Mohamed Aly M. Morsy**

5. Morsy MA, Abdalla AM, Mahmoud AM, Abdelwahab SA, Mahmoud ME. Protective effects of curcumin,  $\alpha$ -lipoic acid, and N-acetylcysteine against carbon tetrachloride-induced liver fibrosis in rats. *J Physiol Biochem.* 2012 Mar;68(1):29-35.
6. Morsy MA. Protective effect of lisinopril on hepatic ischemia/reperfusion injury in rats. *Indian J Pharmacol.* 2011 Nov;43(6):652-5.
7. 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.
8. 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.
9. 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.
10. Morsy MA, Ashour OM, Amin EF, Rofaeil RR. Gastroprotective effects of telmisartan on experimentally-induced gastric ulcers in rats. *Pharmazie.* 2009 Sep;64(9):590-4.
11. 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.
12. Morsy MA, Fouad AA. Mechanisms of gastroprotective effect of eugenol in indomethacin-induced ulcer in rats. *Phytother Res.* 2008 Oct;22(10):1361-6.
13. 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.
14. 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-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.
2. 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.
3. 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.
4. 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. 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. 12<sup>th</sup> Experimental Biology Meeting, San Diego, CA. April 21-25, 2012.
2. Ibrahim MA, Morsy MA, Ashour OM, Abd-Elghany. The Potential Protective Effect of Chloroquine Against High Fructose-Induced Metabolic Disorders. Assiut University 8<sup>th</sup> International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt. March 14-15, 2012.
3. El-Sheikh AA, Morsy MA, Mahmoud MM, Rifaai RA, Abdelrahman AM. Protective Mechanisms of Coenzyme Q10 in Doxorubicin-Induced Nephrotoxicity in Rats. Assiut University 8<sup>th</sup> International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut University, Assiut, Egypt. March 14-15, 2012.
4. Ibrahim MA, Morsy MA, Abd-Elghany MI. Dimethyl dimethoxy biphenyl dicarboxylate (DDB) attenuates hepatic and metabolic changes in high fructose-fed rats. 52<sup>nd</sup> Annual Scientific Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo University, Cairo, Egypt. March 10, 2012.
5. 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. 52<sup>nd</sup> Annual Scientific Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo University, Cairo, Egypt. March 10, 2012.



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#### **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.*

## 9. 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 Practitioner. 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 multivitamin 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.

## 9. Dr. Promise Madu Emeka

17. Mbang A. Owolabi, 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. Loretta O. Iniaghe, <sup>2</sup>**Promise M. Emeka**, <sup>3</sup>Henrietta Ogbunugafor. 2012. Effects of Co-Administration Of Ascorbic Acid On Sulphadoxine/Pyrimethamine In Mice Infected With *Plasmodium Berghei*. *West Afr. Journal of Pharm.* [accepted and in press].
19. **Promise Madu Emeka**, Mokhtar Jawad Al-Omar & Tahir Mehmood Khan. 2012. A Qualitative Study Exploring Role of Community Pharmacy in the Irrational Use and Purchase of Nonprescription Antibiotics in Al Ahsa. [In Press] *European Journal of General Medicine*.
20. Emeka PM, Badger-Emeka LI, Fateru O. In-vitro Antimicrobial activities of *Acalypha ornata* Leaf Extracts on Bacterial and Fungal Clinical Isolates. *Journal of Herbal Medicine* [Accepted and In press].

### 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<sup>h</sup> Regional Conference of the WASP, October 2003, 18--24<sup>th</sup> University of Ibadan, Ibadan
3. **2003** : **P.M.Emeka.**,M.M.Lawal.,S. Genebiche.,In-Vitro studies of *Bryophyllum Pinnatum* aqueous extract on blood coagulation. . Published abstract. Number B024, 30<sup>h</sup> Regional Conference of the WASP, October 2003, 18--24<sup>th</sup> University of Ibadan, Ibadan.

4. 2000: **Emeka P.M.** Akintonwa A and Adeyemi O.O. Toxicity studies of *manihot wsculental* crantz in albino rats. Published abstract. 27<sup>th</sup> Regional Conference of the WASP, October 2000, 23-28<sup>th</sup> Port Harcourt.
5. 2000: **Emeka P.M.** Akintonwa .A and Adeyemi O.O Changes in thiocyanate levels of Diabetic and Goiter patients. Published abstract. 27<sup>th</sup> Regional Conference of the WASP, October 2000, 23-28<sup>th</sup> 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. 27<sup>th</sup> Regional Conference of the WASP, October 2000, 23-28<sup>th</sup> 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. 26<sup>th</sup> Regional conference of the West Africa Society for Pharmacology (WASP) October 1999, 20-23<sup>rd</sup>. 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
6. Toxicology studies of Multivitamin-Chemiron Nigeria Limited
7. Clinical trials of Ashton and Parson Teething power for SmithKline Beechams (Nig.) Ltd.



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#### 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*

## 10. 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 :** Twelve 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.
- ◆ Topical delivery of metallic particles
- ◆ Noninvasive approach for therapeutic drug monitoring.
- ◆ Noninvasive buccal delivery.
- ◆ Micro and macro nutrients delivery in chronic disorders.
- ◆ Enhancement of oral bioavailability using nano formulations.
- ◆ Drug targeting by unique approaches.
- ◆ Drug delivery through bone.

### LIST OF PUBLICATIONS:

1. **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.
2. **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 alfu-zosin hydrochloride. *Pharm. Tech. Dev.* 17, 158-163, 2012.
3. Wadhwa J, **Anroop B**, Kumria R. Emulsion forming drug delivery system for lipophilic drugs. *Acta Pol. Pharm. Drug Res.* 69, 179-191, 2012.
4. Rao R, Sanju N, **Anroop B**, Influence of ultrasound mediated transdermal delivery of losartan potassium. *Drug Del Lett.* 2, 46-53, 2012.
5. **Anroop B**, Goel A, Prakash S, Kumar A, Therapeutic drug monitoring by reverse iontophoresis. *J. Basic. Clin. Pharm.* 3, 207-213, 2012.
6. Kishore L, Kumar A, **Anroop B**, Kaur N, Kinetic Spectrophotometric method for the estimation of ofloxacin in pharmaceutical formulations. *J. Mex. Chem. Soc.* 56, 355-361, 2012.
7. Kumar A, Kishore L, Kaur N, **Anroop B**, Method development and validation: Skills and tricks, *Chron. Young Sci.* 3, 3-11, 2012.

8. Kumar A, Saini G, **Anroop B**, Sharma R. UPLC: A preeminent technique in pharmaceutical analysis. *Acta Pol. Pharm. Drug Res.* 69, 371-380, 2012.
9. **Anroop B**, Vaka SRK, Murthy SN. Trans-ungual delivery of terbinafine by iontophoresis in onychomycotic nails. *Drug Dev. Ind. Pharm.* 37, 1253-1258, 2011.
10. 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.
11. Shinu P, **Anroop B**, Singh V, Kumar S, Bareja R. Evaluation of rapid techniques for the detection of Mycobacteria in sputum with scanty bacilli or clinically evident, smear negative cases of pulmonary and extra pulmonary TB. *Mem. Inst. Oswaldo. Cruz.* 106, 620-624, 2011.
12. **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.
13. Singh K, **Anroop B**, Kumar A, Kumria R. Novel approaches in formulation and drug delivery using contact lenses. *J. Basic. Clin. Pharm.* 2, 87-101, 2011.
14. Jacob S, **Anroop B**. Design and evaluation of hydrophobic coated buoyant core as floating drug delivery system for sustained release of cispripide. *J. Basic. Clin. Pharm.* 2, 11-19, 2011.
15. Jacob S, **Anroop B**, Patil PN, Panda BP. Solid state crystallinity, amorphous state, and its implications in the pharmaceutical process. *Int. J. Pharm. Sci. Res.* 2, 72- 82, 2011.
16. **Anroop B**, Chakraborty B, Murthy SN. Effect of polyethylene glycols on the trans-ungual delivery of terbinafine, *Curr.Drug.Deliv.* 7,407-14, 2010.
17. **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.
18. Murthy SN, **Anroop B**, Hammer N, Vaka SRK, Wright AE. Dermatokinetics of nanoparticles (~25nm), *Int. J. Innov.Pharm.Res*, 1, 37-43 2010.
19. **Anroop B**, Vyas H, Kumar A. Controlled release matrix uncoated tablets of enalapril maleate using HPMC. *J.Basic.Clin.Pharm.* 1, 71-74, 2010.
20. **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 unguual delivery of terbinafine. *Pharm. Res.* 26, 2194-01, 2009.
21. **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.
22. 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.
23. **Anroop B**, Ghosh B, Parcha V, Khanam J. Transdermal delivery of atenolol: Effect of prodrugs and iontophoresis. *Curr. Drug. Deliv.* 6, 280-290, 2009.
24. **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.
25. **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.

### 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.*

## 10. Dr. Anroop B Nair

26. **Anroop B**, Vaka SRK, Sammeta SM, Kim HD, Friden PM, Chakraborty B, Murthy SN. Transungual iontophoretic delivery of Terbinafine. *J. Pharm. Sci.* 98, 1788-1796, 2009.
27. Jacob S, Shirwaikar A, **Anroop B**. Preparation and evaluation of fast-disintegrating effervescent tablets of glibenclamide. *Drug. Dev. Ind. Pharm.* 35, 321-328, 2009.
28. **Anroop B**, Sammeta SM, Vaka SRK, Murthy SN. A study on the effect of inorganic salts in transungual drug delivery of terbinafine. *J. Pharm. Pharmacol.* 61, 431-437, 2009.
29. 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.
30. **Anroop B**, Ghosh B, Parcha V, Khanam J. Comparative skin permeability of metoprolol tartrate and its ester prodrugs by passive permeation and iontophoresis. *Asian J. Pharm. Sci.* 3, 1-11, 2008.
31. **Anroop B**, Gupta R, Vasanti S. In vitro controlled release of alfuzosin hydrochloride using HPMC based matrix tablets and its comparison with marketed product. *Pharm. Develop. Tech.* 12, 621-625, 2007.
32. **Anroop B**, Ghosh B, Parcha V, Khanam J. Delivery of metoprolol by esterification: A comparison of passive permeation and iontophoresis. *Acta Pharm. Scientia.* 48, 179-193, 2006.
33. **Anroop B**, Ghosh B, Parcha V, Vasanti S. Studies on *Ocimum grattissimum* seed mucilage: Evaluation of binding properties. *Int. J. Pharm.* 325, 191-193, 2006.

### Selected Abstracts

1. **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).
2. **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).
3. **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).
4. Attimarad M, Al-Dhubiab BE, Alhaider I.A., Harsha S, **Anroop B**, Simultaneous determination of moxifloxacin and cefixime by first and ratio first derivative ultraviolet spectrophotometry in presence of tablet excipients, AAPS Annual meet, Chicago, USA (2012).
5. **Anroop B**, Wadhwa J, Nanoparticles for transdermal delivery of 5-fluorouracil, International Conference on Frontiers in Nanoscience, Nanotechnology, Chandigarh, India (2012).
6. Wadhwa J, **Anroop B**, Singh K, Kumar A, Constant low voltage iontophoresis for transungual drug delivery: proof of concept, IPC, Bangalore, India (2011).
7. Singh K, **Anroop B**, Kumar A, Transungual delivery of ciclopirox olamine using iontophoresis. National seminar, Faridabad, India (2011).
8. Gupta A, Johri RK, Sharma SC, **Anroop B**, Effect of piperine on the pharmacokinetic profile of rifampicin and isoniazid in mice model. National seminar, Faridabad, India (2011).
9. Singh K, **Anroop B**, Kumar A, A novel approach for transungual delivery of ciclopirox olamine. Symposium on advances in drug delivery systems, Chitkara, India (2011).
10. Kapil J, Ravi C, **Anroop B**, Kumria R, Quality by design: An industrial approach to improve product quality. National seminar, Murad Nagar, India (2011).

12. Kamboj S, Kumar A, Kumria R, **Anroop B**. Influence of citric acid on release rate of drug from hydrophilic matrix tablets. National seminar, Ambala, India (2010).
13. Kamboj S, **Anroop B**. Enhancement of solubility of cefpodoxime proxetil by solid dispersions. National seminar, Ambala, India (2010).
14. **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).
15. **Anroop B**, Kim HD, Friden PM, Murthy SN. Effect of Transcutol P on the *in vitro* trans-ungual permeation of terbinafine by iontophoresis. AAPS Annual meet, Los Angeles, USA (2009).
16. **Anroop B**, Kim HD, Chakraborty Murthy SN. Effect of polyethylene glycols on the iontophoretic trans-ungual delivery of terbinafine. AAPS Annual meet, Los Angeles, USA (2009).
17. **Anroop B**, Kim HD, Friden PM, Murthy SN. Iontophoretic delivery of gallium into human skin *in vitro*. AAPS Annual meet, Los Angeles, USA (2009).
18. **Anroop B**, Vaka SRK, Murthy SN. Development of iontophoretic transdermal drug delivery system of Alfuzosin hydrochloride. AAPS Annual meet, Los Angeles, USA (2009).
19. **Anroop B**, Hammer N, Wright AE, Murthy SN. Skin permeability and dermatokinetic studies of nanoparticles. AAPS Annual meet, Los Angeles, USA (2009).
20. **Anroop B**, Kim HD, Davis SP, Murthy SN. Development of an *ex vivo* toe model to study trans-ungual iontophoretic delivery of terbinafine. AAPS Annual meet, Los Angeles, USA (2009).
21. **Anroop B**, Reddy C, Sammeta SM. Effect of iontophoresis and chemical enhancers on transdermal delivery of atenolol. AAPS Annual meet, Atlanta, USA (2008).
22. **Anroop B**, Kim HD, Friden PM, Davis SP, Etheredge R, Barsness M, Murthy SN. Terbinafine hydrochloride delivery from iontophoretic applicators using an in-vitro nail delivery model. AAPS Annual meet, Atlanta, USA (2008).
23. **Anroop B**, Ghosh B, Parcha V, Khanam J. Skin permeability of atenolol: Prodrug approach. AAPS Annual meet, Atlanta, USA (2008).
24. Murthy SN, Vaka SRK, **Anroop B**. TransScreen-N<sup>TM</sup>: Method for rapid screening of Trans-ungual drug delivery enhancers. AAPS Annual meet, Atlanta, USA (2008).
25. **Anroop B**, Ghosh B, Parcha V, Khanam J. Transdermal delivery of Atenolol prodrugs by Iontophoresis. AAPS Annual meet, Atlanta, USA (2008).
26. **Anroop B**, Vyas H, Shah J. Formulation and evaluation of matrix tablet for controlled release of enalapril maleate. IPC, India (2008).
27. **Anroop B**, Vyas H, Sammeta S, Shah J. Skin permeability and depot effect of metoprolol tartrate. AAPS Annual meet, Atlanta, USA (2008).
28. **Anroop B**, Kim HD, Friden PM, Chakraborty B, Singh J, Zaman Z, Gupta A, Murthy SN. Coulombic dose controlled unguinal and trans-ungual iontophoretic delivery of terbinafine Hydrochloride. AAPS Annual meet, Atlanta, USA (2008).
29. **Anroop B**, Lakkannavar S, Vasanti S, Sammeta SM. Formulation and evaluation of fast dissolving glipizide tablets. AAPS Annual meet, Atlanta, USA (2008).
30. **Anroop B**, Kim HD, Friden PM, Chakraborty B, Singh J, Zaman Z, Gupta A, Murthy SN. Trans-ungual iontophoresis of terbinafine hydrochloride: Drug depot formation in the nail plate. AAPS Annual meet, Atlanta, USA (2008).
31. **Anroop B**, Sammeta SM, Murthy SN. Electropulsation for trans-ungual drug delivery. AAPS Annual meet, Atlanta, USA (2008).
32. **Anroop B**, Kim HD, Friden PM, Singh J, Zaman M, Gupta A, Murthy SN. Trans-ungual Iontophoretic delivery of Terbinafine hydrochloride. CRS Annual meet, New York, USA (2008).



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**DSR KFU Grants:**

*Evaluation of Iontophoresis  
effect on Niosome –  
Emulgel Combination as a  
Novel Transdermal Drug  
Delivery System, 2012-  
2013, (SAR 115900)*

## 11. Dr. Tamer Mohamed Shehata

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

### ASSISTANT PROFESSOR, PHARMACEUTICS

**TEACHING EXPERIENCE :** 3 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-Selem, 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-Selem,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 Toshikiro 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)

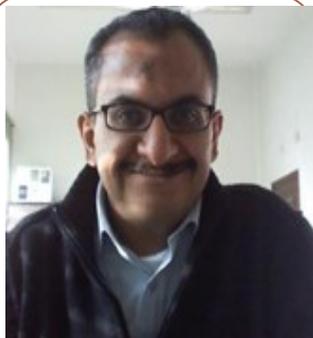
**CONFERENCE/SEMINAR/WORKSHOP:**

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.

**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.

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



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#### **KFU Grant**

*Mohammed Abdou, Omar  
Mohafez, Raed Kasha and  
Ibrahim Al-Haider. "Design  
and synthesis of novel DPP-  
IV inhibitors as a kind of  
Diabetes mellitus type-2"  
77000 SAR*

#### **Presentations and Abstracts :**

- ◆ **Mohammed Abdou,**  
*"Molecular Modeling  
'concepts and applica-  
tions' that was held in  
Helwan University,  
Egypt. 17-01-2012*
- ◆ **Mohammed Abdou,**  
*"Computer-aided drug  
design and synthesis of  
novel antivirals", Cardiff  
university, UK.*

## **12. Dr. Mohammed Abdou Khedr**

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

### **ASSISTANT PROFESSOR,**

**TEACHING EXPERIENCE :** .9 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. 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
2. Synthesis, antitumor activity and molecular docking study of novel benzofuran-2-yl pyrazole pyrimidine derivatives. *Acta Poloniae pharmaceutica – Drug research.* 2011, 68 (3).
3. 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
4. Synthesis, Biological Evaluation and Molecular Docking of Novel Series of Spiro[(2h,3H)quinazoline-2,1'-cyclohexan]-4(1H)-one Derivatives as Anti-inflammatory and Analgesic Agents. *Eur. J. Med. Chem.* 2010. 45 (6), 2117-2131
5. 2-Arylamino-4-Amino-5-Aroylthiazoles. "One-Pot" Synthesis and Biological Evaluation of a New Class of Inhibitors of Tubulin Polymerization. *J. Med. Chem.* 2009. 52 (17), 5551-5555
6. West Nile Virus Helicase: Homology Modeling and Docking Studies, *Antiviral research.* 2009, 82, 2, 60.

### 13. 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, **HanyEzzat Khalil**, Sachiko Sugimoto, KatsuyoshiMatsunami, 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 *Ruellipatula*; *Chem. Pharm. Bull.*59(06) 725-729 (2011).
4. **HanyEzzat Khalil**, LivaHarinantenaina, KatsuyoshiMatsunami, Hideaki Otsuka and Mohamed Salah Kamel. Antioxidant Activity of Chemical Constituents from aerial parts of *Cichoriumendivia*. XXXII conference of pharmaceutical sciences, December 2011.

#### Presentation and Abstract

- ◆ **HanyEzzat Khalil**, LivaHarinantenaina, KatsuyoshiMatsunami, Hideaki Otsuka and Mohamed Salah Kamel. Antioxidant Activity of Chemical Constituents from aerial parts of *Cichoriumendivia*. XXXII conference of pharmaceutical sciences, December 2011.



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#### Grants:

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



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Clinical Pharmacy,  
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### **Relevant Research experience:**

*Worked as research assis-  
tant at UT Austin and UNC  
Chapel Hill  
Research Scientist at NCCU  
Durham and UNC Chapel  
Hill*

## **14. Dr. Ra'ed Khashan**

*B.Sc. Pharmacy, Jordan Univ of Sci & Tech, M. Ph, Univ of Texas at Austin, USA Ph.D. Univ of North Carolina at Chapel Hill, USA*

### **ASSISTANT PROFESSOR, MEDICINAL CHEMISTRY**

**TEACHING EXPERIENCE :** Teaching theories used in molecular modeling, and demonstrating the applications of these theories using various packages available within Tripos SYBYL software, KinImage, in addition to the QSAR software developed in our laboratory. Medicinal Chemistry.

### **RESEARCH INTEREST :**

1. Applying subgraph mining technique to develop Cheminformatics tools, such as ligand/structure-based drug design techniques,
2. Bioinformatics tools, such as protein-protein interaction.

### **LIST OF PUBLICATIONS:**

1. Raed Khashan, Weifan Zheng, and Alexander Tropsha\*. Scoring Protein Interaction Decoys using Exposed Residues (SPIDER): A Novel Multi-Body Interaction Scoring Function based on Frequent Geometric Patterns of Interfacial Residues. *Proteins: Structure, Function, and Bioinformatics*, Volume 80, Issue 9, Pages 2207-2217, August 2012.
2. Raed Khashan\*. FragVLib - A Free Program for Generating "Fragment-based Virtual Library" Using Pocket Similarity Search of Ligand-Receptor Complexes. *Journal of Cheminformatics*, Volume 4, Issue 1, Page 18, 2012 August 21.
3. Sarel J. Fleishman, Timothy A. Whitehead, Eva-Maria Strauch, Jacob E. Corn, Raed Khashan, Stephen Bush, Denis Fouches, Alexander Tropsha, et al. Community-Wide Assessment of Protein-Interface Modeling Suggests Improvements to Design Methodology. *Journal of Molecular Biology*, Volume 414, Issue 2, Pages 289-302, 25 November 2011.

### **Presentations and Abstracts**

1. Raed Khashan, and Weifan Zheng. FragVLib: Fragment-based virtual library for in-silico screening using geometric and chemical patterns of interactions at interface of ligand-receptor complex crystal structures. Abstract and Poster at 240th ACS National Meeting of Fall 2010.
2. Raed Khashan, Weifan Zheng, and Alexander Tropsha. GeoIsosteres: Structure-based approach to finding bioisosters using geometric and chemical patterns of interacting atoms at receptor-ligand interfaces. Abstract and Poster at 240th ACS National Meeting of Fall 2010.

3. Raed Khashan. Development of Ligand-based & Structure-based CADD Tools Using Frequent Subgraph Mining of Chemical Structures. Computer-Assisted Drug Design Group, Bristol-Myers Squibb Company at Lawrenceville, New Jersey, May 14th, 2008.
4. Raed Khashan. Development of Ligand-based & Structure-based CADD Tools Using Frequent Subgraph Mining of Chemical Structures. Computational Chemistry Group, Pfizer, Inc. at Groton, Connecticut, October 10th, 2007.
5. Raed Khashan, Weifan Zheng, Wei Wang, and Alexander Tropsha. Development of scoring functions for protein-ligand binding based on frequent geometric and chemical patterns of inter-atomic interactions at their interfaces. Abstract and Poster at 234th ACS National Meeting of Fall 2007.
6. Raed Khashan, Weifan Zheng, Wei Wang, and Alexander Tropsha. Development of docking protocols and scoring functions using frequent geometric and chemical patterns of inter-atomic interactions at the interface of protein-ligand complexes. Abstract and Poster at 233rd ACS National Meeting of Spring 2007.
7. Raed Khashan, Weifan Zheng, Jun Huan, Wei Wang, and Alexander Tropsha. Development of fragment-based chemical descriptors using novel frequent common subgraph mining approach and their application in QSAR modeling. Abstract and Poster at 230th ACS National Meeting of Fall 2005.
8. Scott Oloff, Raed Khashan, Robert Plourde, and Alexander Tropsha. Development of validated QSAR models of P2Y12 receptor antagonists and their application to database mining. Abstract and poster at 228th ACS meeting of Fall 2004.
9. J. Huan, W. Wang, A. Washington, and J. Prins, R. Shah, A. Tropsha. Accurate classification of protein structural families using coherent subgraph analysis. Pacific Symposium on Biocomputing 2004: 411-422. Presented at a computer science class in data mining in Spring 2004.
10. J. Huan, W. Wang, and J. Prins. Efficient mining of frequent subgraph in the presence of isomorphism, ICDM, 2003: 549-552. Presented at a computer science class in data mining in Spring 2004.

**SKILLS:**

- ◆ *Acquire a broad background in pharmaceutical sciences, medicinal chemistry,*
- ◆ *computational chemistry, computer programming, and numerical analysis.*
- ◆ *Utilize state-of-the-art hardware and software required to do advanced molecular modeling*
- ◆ *and to develop computer-assisted drug discovery software.*
- ◆ *Molecular modeling software: MOE, SYBYL, Concord, Confort, StereoPlex, GSSI, FRED, and Omega.*
- ◆ *Programming languages: C/C++, BASIC, FORTRAN, PASCAL, PERL, Python, R, and UNIX C-Shell.*



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### Relevant Research experience:

Very good experience on using different spectroscopic analyses such as UV, IR, NMR and Mass spectrometry in structure elucidation of natural products.

Expert in DNA manipulation, PCR amplification, DNA cloning and performing enzyme immunoassays (EIA)

Very good experience on performing analyses using HPLC and GC techniques.

## 15. 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 9 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 PUBLICATIONS:

1. 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.
2. 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 (*Glycyrrhiza Glabra* L Zagazig *J. Pharm. Sci.* **12** 14-23, 2003.
3. **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.
4. 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
5. 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.
6. **Maged E. Mohamed**, Khomaizon A. K. Pahirulzaman and Colin M. Lazarus Production of 12-oxophytodienoic acid derivative in the fungus *Aspergillus oryzae*: the first step in heterologous production of pyrethrins in fungi accepted at Trends in Natural Products Research: A PSE Young Scientists' Meeting June 12–15, 2011, Kolymvari – Crete, Greece

7. Dalia I. Hamdan, **Maged E. Mohamed**, Rehab H. Abdulla, Sabah M. Mohamed and Assem M. El-Shazly (2012) Comparative study of essential oils and their biological activity obtained from different plant organs of *Citrus sinensis* (L.) Osbeck variety malesy growing in Egypt *Flavour and Fragrance* under beer review
8. **Mohamed ME** and Lazarus CM Production of prostanoids in the plant *Arabidopsis thaliana Prostaglandins* under beer review.
9. Dalia I. Hamdan, **Maged E. Mohamed**, Rehab H. Abdulla and Assem M. El-Shazly (2012) Volatile Oil Composition and Biological Activity of Cleopatra Mandarin (*Citrus reshni*) cultivated in Egypt under review
10. **Maged E. Mohamed**, Asmaa M. Arafa, Saeed Soliman and Sameeh I. Eldahmy (2012) Plant germination and production of callus from the yellow hornpoppy (*Glaucium flavum*): the first stage of micropropagation under review.

### 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 5<sup>th</sup> 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.

### Thesis supervision

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

### Training

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

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## 16. Dr. Nashwa Hafez Mohamed Zaher

B. Pharm, Ain Shams University M. Pharm, Ph.D, Cairo University, Egypt

### ASSISTANT PROFESSOR Medicinal chemistry

**TEACHING EXPERIENCE :** 4 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 radiosensitizers. 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. 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  $\gamma$ -Radiation. *Archiv der Pharmazie* 343, (7),404–410, **2010**
2. 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**.
3. 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**.

## 17. Dr. Azza Ali Hasan Soliman

BSc, MSc and Ph.D. Zagazig University, Egypt

### ASSISTANT PROFESSOR, PHARMACEUTICS

**TEACHING EXPERIENCE :** 17 years experience in teaching Pharmaceutics and Industrial Pharmacy.

### RESEARCH INTEREST :

1. Formulation and evaluation of certain controlled release drug delivery systems, such as Liposomes, Niosomes, Nanospheres,
2. Ocular drug delivery system.

### LIST OF PUBLICATIONS:

1. S.S. Abu-Zaid, O.A. Sammour, M.E. Abu-Selem, M.M. Abdelrhman and A.A. Hasan; Formulation and Evaluation of Timolol Maleate Loaded Liposomes as an Ocular Drug Delivery System, Bull.Fac.Pharm.Cairo Univ.,43 (2005) 251-236.
2. O.A.Sammour ,S.A.Abu-Zaid, M.E.Abu-Selem, M.M.Abdel Rahman and A.A.Hassan; Formulation And Evaluation Of Timolol Maleate Loaded Niosomes As An Ocular Drug Delivery System, Bull.Fac.Pharm.Cairo Univ.,42 (2004) 249-261.
3. O.A.Sammour ,S.A.Abu-Zaid, M.E. AbuSelem, M.M.Abdel Rahman and A.A.Hassan; Formulation And Evaluation Of Timolol Maleate Loaded Nanospheres As An Ocular Drug Delivery System, MJPS.,20 (2004) 85-105.
4. Azza Hasan, "Formulation and evaluation of certain controlled release drug delivery systems" Ph. D thesis, 2004.
5. Azza Hasan, "A pharmaceutical study of certain non narcotic analgesics" Master thesis 1998.

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***Research activity for the  
academic year  
1430-1431 H: KFU grant  
"Formulation and Evaluation  
of Dorzolamide Hydrochloride  
Loaded Nanoparticles as an  
Ocular Drug Delivery  
System".***

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

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***Reviewer Journals:***

*Asian Journal of Pharmaceu-  
tics  
African Journal of Pharmacy  
and Pharmacology  
Journal of Young Pharma-  
cists*

## 18. Dr. Arshia Shariff

*B. Pharm, Govt. College, M. Pharm, Al-Ameen College, Ph.D, Annamalai University, India*

### ASSISTANT PROFESSOR

**TEACHING EXPERIENCE :** 12 years teaching experience

#### RESEARCH INTEREST :

1. Study on drug polymorphism.
2. Development of novel drug delivery systems for drugs of natural origin.
3. Study on novel concepts of quality assurance in pharma manufacturing industry.

#### LIST OF PUBLICATIONS:

1. Bhaskara.J, Arshia Shariff, Brahmani Priyadarshini.(2009 )Formulation and Evaluation of Topical Polyherbal Antiacne Gels Containing *Garcinia mangostana* and *Aloe vera*. Phcog Mag, July , 5(19):93-99.
2. Arshia Shariff, Brahmani Priyadarshini. (2009), Adjuvants in vaccines: A safety concern. Indian J Pharmaceutical Education and Research 43(4): , 321.
3. Shariff A, Manna PK, Paranjothy KLK and Manjula M (2007). Entrapment of Andrographolide in Cross-linked Alginate Pellets. I. Formulation and evaluation of Associated Release kinetics. Pak.J.Pharm.Sci., 20(1):1-9.
4. Shariff A, Manna PK, Paranjothy KLK and Manjula M (2007). Entrapment of Andrographolide in Cross-linked Alginate Pellets. II. Physicochemical Characterisation to study the pelletization of Andrographolide. Pak. J. pharm.Sci., 20(1): 9-15.
5. Shariff A, Manna PK, Paranjothy KLK and Mohammed Asad. (2007) Hepatoprotectant Activity of Alcoholic Extract of *Andrographis paniculata* Entrapped in Calcium Alginate Micropellets. J. Natural. Remedies. 7(2):283
6. Arshia Shariff, Sarasija Suresh, KLK Paranjothy, KV Nagendra Prasad. (2003).Effect of Sodium Glycocholate on development of tolerance to *Parthenium hysterophorus* extract. Indian Journal of Exp. Biology, 41: 370
7. L.Panigrahi, T.John, A.Shariff, Shobha Rani Hiremath. (1997). Formulation and Evaluation of Lincomycin HCL gels. Indian.J.Pharm.Sci.59 (2):330-332.
8. Arshia Shariff, Sarasija Suresh. (1996).Antibiotic incompatibility-A review. Indian Journal of Hospital Pharmacy. July.33 (4):133-138.

**PAPERS PRESENTED IN CONFERENCES**

1. Formulation of Topical Antiacne Gel Containing Herbal Extracts at Current Trends in Bio-Analytical Techniques Conducted at Krupanidhi College of Pharmacy,( Feb 2009) at Bangalore.
2. Transdermal Delivery System of Sibutramine Hcl at Current Trends in Bio-Analytical Techniques Conducted at Krupanidhi College of Pharmacy,( Feb 2009) at Bangalore.
3. Comparison of Methods of Granulation for Formulation of Tablet Containing Antiretroviral Drug at Current Trends in Bio-Analytical Techniques Conducted at Krupanidhi College of Pharmacy, ( Feb 2009) at Bangalore.
4. Design and Evaluation of Controlled Release Floating Delivery Systems of Ferrous Sulphate at 60<sup>th</sup> IPC, New Delhi (2008).
5. Study of Effect of Drug Polymorphism on Physico-Chemical Properties of Drug and Tablet Characterization at The First Asian Spectroscopy Conference Held at Indian Institute of Science, Bangalore, Feb 2007, India.

**STUDENTS GUIDED FOR MASTERS IN PHARMACY**

1. Dipak Patil(2010).Study on the Risk analysis as an Element of Process Validation of Solid Unit Dosage forms-Capsule.
2. Dhawal Satashia(2010). A Study on Concurrent Process validation of Solid Oral Antibiotic Dosage.
3. Ankit(2010).Process Validation of Anti-Diabetic Active Pharmaceutical Ingredients.
4. Nihar Satasiya(2010).Study of critical quality Attributes(CQA's) of Solid Dosage Forms.
5. Shashidhara (2008). Formulation and Evaluation of Soft Gelatin Capsules of 5-Alpha Reductase Inhibitors Used in the Treatment of Benign Prostate Hyperplasia
6. Samrat Vaidya (2008). Formulation and Evaluation of Solid Oral Drug Delivery Systems of Antiretroviral Drugs
7. Bhaskara Gowda .J (2008). Formulation and Evaluation of Topical Polyherbal Semisolid Dosage Forms for the Treatment of Acne.
8. Abdul Aleem (2006). Process Optimization and Trouble Shooting of Finasteride Granulation Using Single Pot Fluid Bed Processor.
9. Kamalika Ghorai (2006). Formulation and Evaluation of Floating Drug Delivery Systems Containing Ferrous Sulphate for the Treatment of Anaemia.
10. Usha G.K (2005). Formulation and Evaluation of Sustained Release Tablet of Tramadol Hcl.
11. Shantesh R (2005). Study on Effect of Drug Polymorphism on Physicochemical Properties of Drug and Tablet Characteristics.
12. Shalini Singh (2004). Formulation and Development of a Taste Masked Oral Dosage Form of Levofloxacin
13. Shadab Khan (2004). Formulation Development Studies on an Orabase Gel System for Buccal Transmucosal Drug Delivery.



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## 1. Dr.Sherif W. Mansour

*MBBCH, M. Sc, & Ph.D. Zagazig University, Egypt*

### **PROFESSOR, PHYSIOLOGY**

**TEACHING EXPERIENCE :** 26 Years experience in teaching endocrinology, cardiovascular physiology, physiology of the cell, renal physiology, neurology and respiratory physiology, heamatology and metabolism.

**RESEARCH INTEREST :** C.V.S., Liptin, melatonin, exercise, diabetes Mellitus, G.I.T. motility, heamostasis and factors affecting it and angiotensin – II receptors with portal hypertension– adiponectine variation with exercise.– cytokines and CVS.

### **LIST OF PUBLICATIONS:**

1. Hafez R. Madkor, Sherif Wagih, and Gamal Shebil. "Modulatory effects of garlic, ginger, turmeric and their mixture on hyperglycaemia, dyslipidaemia and oxidative stress in streptozotocin-nicotinamide diabetic rats". Accepted by British Journal of Nutrition (Impact factor 3.446), BJN-2010-015960R, Accepted 28/10/2010
2. Influence of Somatostatin on some haemostatic parameters in rats. Zagazig university medical journal , Special issue, Nov.2007.
3. Effect of angiotensin-II receptor blockade on experimental portal hypertension in rabbits. Zagazig university medical journal , Special issue, Nov.2003, 194-206.
4. Evaluation of the potential effects of Ropivacaine on the isolated heart and blood vessels of rabbits. Zagazig university medical journal vol.(7), No.5, 2001: 2335-47.
5. Effect of H<sub>2</sub>O<sub>2</sub> on ischemia-reperfusion injury in isolated rabbits heart. Zagazig university medical journal vol.(7), No.7, Dec.2001: 178-187.
6. Influence of angiotensin-converting enzyme inhibition on experimental portal hypertension in rabbits, Zagazig university medical journal vol.(6), No.3, 2000: 17-24.

7. Alterations In Some Gonadal And Hepato-renal Functions Induced By Chronic Lead Ingestion In Male Rats. Proceeding of the first congress of clinical physiology, Zagazig October 1996:68-74.
8. Effect Of Cigarette Smoking On The Pituitary-Testicular Axis And Semen Quality. Zagazig university medical journal vol.6, No.2, Mar.1999: 244-258.
9. Role Of Prokinetics In Gastrointestinal Dysfunction In Diabetes Mellitus, Zagazig university medical journal vol.5, No.1, Jan.1999: 739-763.
10. Effect Of Experimentally Induced Diabetes Mellitus On Gastric And Duodenal Migrating Myoelectric Complexes (M.M.C). Zagazig university medical journal special issue, Nov 1998:349-362.
11. Chronic zinc administration improves endothelial cell function and vascular reactivity in experimentally-induced diabetes mellitus in rats. The journal of the Egyptian society of pharmacology and experimental therapeutics.
12. Effects of melatonin administration on blood coagulability and lipid profile in experimentally diabetic albino rats. Zagazig university medical journal , Special issue, Nov.2003, 137-147.Effects Of Acute And Chronic Exercise Training On Serum Leptin Levels In Rats, Zagazig university medical journal vol.6, No. 3 May 1996: 368-381.
13. Age-Related Changes In The Tracheal Smooth Muscle Responsiveness To Some Mediators Of Bronchial Asthma In Guinea Pigs. Proceeding of the first congress of clinical physiology, Zagazig October 1996: 16-25.
14. Effect Of Testosterone On Platelet Aggregation. Proceeding of the first congress of clinical physiology, Zagazig 30 October 1996: 43-52.
15. Angiotensin Converting Enzyme (ACE) Inhibition Influence On Oral Glucose Tolerance Test, Tissue Glucose Uptake And Insulin Sensitivity Tests In Rats, Proceeding of the first congress of clinical physiology, Zagazig, 1996: 129-140.

**Supervision :**  
*Five dissertations MSc,  
 Three Thesis for Ph D. .*

**KFU Grants:**  
*-Effect of Natural Medicinal Herbs on experimentally induced diabetes mellitus in rats.*

*-Prevalence and correlation between Obesity & hypertension and diabetes mellitus among secondary school students in Al Hasa (Student research-KFU grant)*

*- Anti-angiogenic Activities of Some Saudi Medicinal Plants on Experimentally Induced Breast Cancer in Rats*

*We may not always get what we want, but surely we will get what we deserve. It's always too soon to quit.*



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#### **Workshops:**

*The 2<sup>nd</sup> 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*

## 2. Dr. Sahibzada T. Rasool

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

### ASSISTANT PROFESSOR, MICROBIOLOGY AND IMMUNOLOGY

**TEACHING EXPERIENCE :** 9 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 Ajmal and 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 2<sup>nd</sup> 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 .*



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*Travel Grant Award,  
World Allergy Congress  
2009, World Allergy Organ-  
i z a t i o n .  
Japanese Governmen-  
tal Monbukagakusho  
Research Scholarship,  
the Japanese Ministry of  
Education, Culture, Sports,  
Science, and Technology  
(MEXT),*

### 3. Dr. Ahmed Ragaa Nour Ibrahim

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

#### ASSISTANT PROFESSOR, BIOCHEMISTRY & MOLECULAR BIOLOGY

**TEACHING EXPERIENCE :** 2 years in teaching Biochemistry, clinical biochemistry and nutrition.

#### RESEARCH INTEREST :

1. Clinical Biochemistry
2. Pharmacogenomics/Pharmacoproteomics
3. Molecular Biotechnology
4. Clinical Immunology

#### LIST OF PUBLICATIONS:

1. **Ibrahim, A. R.**, Kawamoto, S., Aki, T., Shimada, Y., Rikimaru, S., Onishi, N., Babiker, E. E., Oiso, I., Hashimoto, K., Hayashi, T., and Ono, K. Molecular cloning and immunochemical characterization of a novel major Japanese cedar pollen allergen belonging to the aspartic protease family. *Int. Arch. Allergy Immunol.* **152** (3): 207–218, Feb., 2010.
2. **Ibrahim, A. R.**, Kawamoto, S., Nishimura, M., Pak, S., Aki, T., Diaz-Perales, A., Salcedo, G., Asturias, J. A., Hayashi, T., and Ono, K. A new lipid transfer protein homologue identified as an IgE-binding antigen from Japanese cedar pollen. *Biosci. Biotechnol. Biochem.* **74** (3): 504-509, March, 2010.
3. **Ibrahim, A. R.**, Kawamoto, S., Mizuno, K., Shimada, Y., Rikimaru, S., Onishi, N., Aki, T., and Ono, K. Molecular cloning and immunochemical characterization of a new Japanese cedar pollen allergen homologous to plant subtilisin-like serine protease. *World Allergy Organization J.* **3** (11): 262-265, Nov., 2010.

#### Presentations and Abstracts

1. The Annual Meeting of the Japanese Society of Allergology, 2007, Tokyo, Japan
2. The XX World Allergy Congress, Dec 2-6, 2007, Bangkok, Thailand
3. The Annual Meeting of the Japanese Society of Allergology, 2009, Gifu, Japan
4. The XXI World Allergy Congress, Dec 6-10, 2009, Argentina, Buenos Aires

## 4. Dr. Muhammad Shahzad Chohan

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

**ASSISTANT PROFESSOR,  
ANATOMY AND HISTOLOGY**

**TEACHING EXPERIENCE :** 10 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)

### **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



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*Every child should have a caring adult in their lives. And that's not always a biological parent or family member. It may be a friend or neighbor. Often times it is a teacher.*



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

## 5. 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 :** .13 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 antioxidant 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- $\alpha$  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, Dwaipayyan 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 Abedel 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).

#### CONFERENCE/SEMINAR/WORKSHOP:

##### Awards:

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 11<sup>th</sup> 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, 14-15<sup>th</sup> , 2010 Cairo-Egypt.

##### 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.

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#### **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 aging 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

## 6. Dr. Asia Taha

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

### ASSISTANT PROFESSOR, BIOCHEMISTRY

**TEACHING EXPERIENCE :** 3 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. 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*, accepted Feb 06, 2012 (in print).
2. 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.
3. Kumar P, Taha A, Kale RK, S M Cowsik, Baquer NZ, Physiological and Biochemical effects of 17 $\beta$  estradiol in Aging female rat brain. *Exp Gerontol.* 2011 46(7):597-605.
4. 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.
5. 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
6. 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.
7. 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.

8. 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
9. 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.
10. Mohammad Rizwan Siddiqui, K. Moorthy, Asia Taha, Mohd. Ejaz Hussain, Najma Z Baquer. Low doses of vanadate and *Trigonella* synergistically regulate Na<sup>+</sup>/K<sup>+</sup> ATPase activity and GLUT-4 translocation in alloxan diabetic rats. *Molecular and Cellular Biochemistry*, 2006; 285(1-2):17-27
11. 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.
12. 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.
13. Sameer Mohammad\*, Asia Taha, RNK Bamezai, SF Basir and Najma Z Baquer. Lower doses of vanadate in combination with *Trigonella* restore altered carbohydrate metabolism and antioxidant status in alloxan-diabetic rats. *Clin Chim Acta*. 2004, 342(1-2): 105-114.

#### 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

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## 7. 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.; 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.
2. 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.
3. 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.
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) Antibiotic resistance amongst cutaneous propionibacteria from Egyptian acne patients. *Clin. Microbiol. Infect.* 13 (Suppl 1) p. S616.
5. El-Mahdy, T.S., Roth, A.L., Fowler, R.C. and Hanson, N.D. Identification of a novel VIM (VIM-28) metallo-beta-lactamase in *Pseudomonas aeruginosa* isolates from Egypt. Submitted 2011.

**CONFERENCE/SEMINAR/WORKSHOP:**

1. 17<sup>th</sup> European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Munich, Germany, April 2007, [Poster presentation].
2. Society of General Microbiology (SGM), 161<sup>st</sup> meeting, Edinburgh, Scotland, Sept. 2007, [Poster presentation].
3. 42<sup>nd</sup> 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. 51<sup>st</sup> ICAAC (Interscience Conference of Antimicrobial Agents and Chemotherapy), 2011, Chicago, USA. Two abstracts, one as oral presentation and the other is poster presentation.
7. 52<sup>nd</sup> 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 161<sup>st</sup> 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, 2012-2013, SR 144,640.*



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### **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**

*M.Sc. Ph. D*The University of Iowa, USA, *Zagazig Uni, Egypt, Ph.D. Okayama University, Japan*

### **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, Abuhasna 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, *EJHPharm*, 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"
- ◆ "Comparative Study Ketoprofen Tablet Dosage Forms Containing Bio-adhesives."

## 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*. 13<sup>th</sup> 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*. 28<sup>th</sup> 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 37<sup>th</sup> 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. Zaghoul, 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 (Aveloxâ). Iowa Drug Information Network. A perquisitè project for completion of Drug Information clerkship. March 2000.*

**MEDICATION EVALUATION UTILIZATION PROJECTS**

*"DVT prophylaxis in inpatients on Thalidomide and Lenolidomide 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*



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***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, BZ University, Pakistan, University of Pujab, Pkisthan,

**ASSOCIATE PROFESSOR, PHARMACOLOGY & THERAPEUTICS**

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

**RESEARCH INTEREST :**

1. Protection against Aminoglycoside induced nephrotoxicity
2. Anti hyperlipidemia Anti arrhythmic and anti diabetic activity of indigenous plants

**LIST OF PUBLICATIONS:**

1. Naveed U, Asif AH, Khan MA, et al: Chemical screening of Naswar and Cigarette: a comparative study IJBCR Vol.1 Issue: 1: 2011
2. 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
3. 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.
4. 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
5. 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
6. 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.
7. 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)
8. A Hamid, AH Asif, A Salam Effect of Exercise on Glucose, Lipid Profile and Apo-ProtienB. Med Forum 2004; 15(9):19-20)
9. A Hamid, AH Asif, A Salam Effect of Exercise on Body Weight and Blood Pressure. Med Forum 2004; 15(9):16-18.

10. H.Subhani, B.Khizar, AH Asif, N.Javid, Seroprevalence of Hepatitis B and C among patients of Hepatocellular Carcinoma. Med Forum 2004, 15(7).
11. M.Zahid, AH Asif, NI Ansari, Biochemical/Functional Derangements produced by Aminoglycoside induced nephrotoxicity. Pak PGMJ 2004; 15(2)
12. ST Rasool, AH Asif, A.Hamid Malathion: A Biochemical and Pharmacological Review. Medical Forum. 2004
13. A.Hamid, AH Asif, Azhar Masud Bhatti, Shahid Rauf, Dilawar Khan Trends of Drug Dependence in Hazara Division. Med Forum 2003 14(2).
14. AH Asif, , A.Hamid, SH Shah HHKhan, Effect of Pyridoxal-5-Phosphate on Gentamicin induced Nephrotoxicity in rabbits. Med Forum 2003; 14:7.
15. 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.
16. 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
17. 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.
18. 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.
19. A.Hamid , AHAsif , D Khan, N Azhar , Asif Jalil & Rozina Noreen Drug, driving and traffic safety in Hazara division. Med Forum: 13(8);2002.
20. 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.
21. M Naeem, SRauf, A Hamid, A.H. Asif Echocardiographic Determination of left Ventricular Pump Function in essential Hypertension. Med Forum 2002; 13(9):
22. 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
23. NA Noor, GMD Chauhdry, M.Masood, AH Asif, Acute poisoning in Adults in Multan (letter); JPMA: 38(11); 1988.
24. AH Asif, Aminoglycoside Nephrotoxicity and its prevention. Presentation made at Aga Khan University in Aug, 1997
25. 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*

*I never did anything worth doing by accident, nor did any of my inventions come by accident; they came by work. Thomas Edison*



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***Undergraduate Project  
funded by Deanship of  
Scientific research***

- *Incidence of Breast cancer In Eastern region Alahsah*
- *Depressive disorders and their predictors among Saudi population*
- *A Qualitative Study Exploring Role Of Community Pharmacy In The Irrational Use And Purchase Of Nonprescription Antibiotics In Al Ahsa*
- *A Study Investigating the Community Pharmacist Knowledge About the Appropriate use of Inhaler, Eastern Region Alahsa, Saudi Arabia*

### 3. Dr. Tahir M. Khan

*B.Pharm, University of Peshawar, M. Sc, Clinical Pharm, University Sains Malaysia, Malaysia*

#### **ASSISTANT PROFESSOR,**

**TEACHING EXPERIENCE :** Five year Experience of teaching Pharmacy Practice, Pharmaceutical care, Total Parenteral Nutrition Pharmacoeconomics and Pharmacy Management

#### **RESEARCH INTEREST :**

1. Social and Clinical Aspects of Mental Health and Psychological disorders
2. Epidemiological Study Design For Infectious diseases
3. Drug Use Evaluation
4. Cross-sectional and Interventional study Designs for TB, Depression and Renal Disorders
5. Research in Social and administrative aspects of Pharmacy
6. Social and Behavioural Medicines

#### **LIST OF PUBLICATIONS:**

1. Azmi Mohammed Hassali, Ramadan ElKelmi, Asrul Akmanl Shafe & Tahir Mehmood Khan. (2012) A Study Evaluating the Advertising Contents for Dietary Supplements in Malaysian Women's Magazines Drug Information Journal. DOI 0092861512457777
2. Tahir Mehmood Khan & Saira Azhar. (2012) A Study Investigating the Community Pharmacist Knowledge About the Appropriate use of Inhaler, Eastern Region Alahsa, Saudi Arabia available online:10-SEP.DOI information: 10.1016/j.jsps.2012.07.004 Saudi Pharmaceutical Journal.
3. Tahir .M. Khan & Manssor Alturkey. A Study Investigating The Level Of Satisfaction With The Health Services Provided By The Pharmacist At ENT Hospital, Eastern Region Alahsah, Kingdom Of Saudi Arabia. Saudi Pharmaceutical Journal, Available online 20 September 2012, DOI:10.1016/j.jsps.2012.09.001.
4. Tahir M Khan & Yasir Ibrahim (2012) A Qualitative Exploring The Non-Prescription Sale And Incidence of Adverse Event In Community Pharmacy Setting, Eastern Region, Kingdom of Saudi Arabia. Eur J Hosp Pharm doi:10.1136/ejhpharm-2012-000161
5. Tahir M Khan (2012) Deficiencies in clinical pharmacy curricula in developing Asian nations. Eur J Hosp Pharm doi:10.1136/ejhpharm-2012-000124

6. Tahir M Khan (2011) Interventions during Pregnancy to Lower the Chances of Postnatal Depression among Women's from Sub-Continent Mental Health In Family Medicine Volume 8, Number 1, April , pp. 7-9(3)
7. Tahir M Khan , Mohamed A Hassali & Mahmoud S Mohammad Al-Haddad (2011) Patient - Physician Communication Barrier; A pilot study evaluating Patient Experiences. Journal of Young Pharmacist 3(3) 250-255.
8. Tahir. M. Khan, Mudassir Anwar & Wasif .G. (2011) Knowledge Towards Breast Cancer Among Malaysian University Students. The Breast Journal pp1-2.
9. Tahir M Khan, Syed A Sulaiman, Mohamed A Hassali & Humera Tahir (2012) Factors Associated with Para-Suicidal Behavior among the Depress Patients in Penang, Malaysia Archives of Medical Sciences. 10.5114/aoms.2012.28601
10. Khan TM, Anwar M, Mueen Ahmed KK. (2011)A perspective for clinical pharmacy curriculum development and validation in Asian developing nations. Journal Of Young Pharmacist Apr-Jun; 3 (2): 151-154.
11. Tahir M Khan, Syed A Sulaiman, Mohamed A Hassali & Humera Tahir (2011) Clinical Audit of Depression among Women; Upshots of a Cross-sectional Study Penang, Malaysia. Mental Health In Family Medicine 8(3), pp. 205-208(4)
12. Amer Hayat Khan, Syed Azhar Syed Sulaiman , Abdul Razak Muttalif , Mohamed Azmi Hassali & Tahir Mehmood Khan (2011). Tuberculous Lymphadenitis at Penang General Hospital, Malaysia. Medical Principles and Practices. ;20(1):80-4.
13. Chohan MS , Tahir M , Lone K, Jafari F, Sami W & Khan TM. (2011) Paraquat Induced Toxicity In Adrenals In Albino Mice. American Journal Of Basic Medical Science 3(3), 228-235.
14. Mohamed .A. Hassali, Tahir .M. Khan & Asrul A Shafie (2010) Use of Drug Information Resources by the Community Pharmacist in Penang, Malaysia. Informatics in Primary care 18(3):213-6.
15. Mohammad Ismail, Zafar Iqbal, Muhammad Bilal Khattak, Arshad Javaid and Tahir Mehmood Khan. (2011) Prevalence, types and predictors of potential drug-drug interactions in pulmonology ward of a tertiary care hospital. African Journal of Pharmacy and Pharmacology Vol. 5(10), pp. 1303-1309.
16. Muhammad Hassali, Asrul Shaffie, Zaheer uddin Babar , Tahir M Khan. (2012) A Study Comparing The Retail Drug Prices Between Northern Malaysia And Australia. Journal of Pharmaceutical Health Services and Research 3;(2):103-107.
17. Mohamed .A. Hassali, Tahir .M. Khan & Asrul A Shafie (2010) Use of Drug Information Resources by the Community Pharmacist in Penang, Malaysia [In Press] Informatics in Primary care.
18. Mudassir Anwar, Tahir .M. Khan & Syed .A. Syed Sulaiman, Sexual Health Literacy among STD Patients; Outcomes of a Survey Conducted at a Public Hospital Penang, Malaysia. Med Princ Pract. 2010;19 (4):312-318.
19. Mueen Ahmed KK & Tahir M Khan (2010) Plant Metabolomics, The Future prospects of Phytochemistry. Pharmaceutical Methods 1(1) 65.
20. Tahir .M. Khan (2010) Challenges to Pharmacy practice in Pakistan. Australasian Medical Journal Vol 4(4).
21. Tahir .M. Khan (2010) Critical Considerations in Pharmacy Curriculum Development in South Asian & South East Asian Developing Nations. American Journal of Pharmaceutical Education 2010; 74 (9) Article 176.
22. Tahir .M. Khan et al (2010) Evaluation of Knowledge towards Breast Cancer among Multiethnic Students: A Qualitative Study JCDR 4 (2):2504-2511.
23. Tahir .M. Khan et al., Community knowledge, attitudes and beliefs towards depression in the state of Penang, Malaysia. Community Ment Health J. 2010 Feb ;46 (1):87-92 20146000

### 3. Mr. Tahir M. Khan

24. Tahir .M. Khan, Mohammad A Hassali, Abbas Khan & Humera Tahir (2010) A Pilot Study Evaluating the Stigma and Public Perception about the causes of Depression and Schizophrenia. Iranian Journal of Public health Vol 40(1).
25. Tahir M Khan (2009) Use of Star Anise Tea in Swine flue prevention and Safety concerns. Complement Ther Clin Pract. 2010 Aug;16(3):175.
26. Tahir M Khan (2010) History of Pharmacy Education in Pakistan and Current Challenges to Pharmacy Education In Pakistan. International Journal of Pharmacy Teaching and Practice 1 (1).
27. Tahir M Khan\* , Mohamed A Hassali & Mahmoud S Mohammad Al-Haddad (2010) Patient - Physician Communication Barrier; A pilot study evaluating Patient Experiences. [In- review] Journal of Young Pharmacist.
28. Tahir M Khan, et al (2010) Incidence of Major Depression among Fresh First Year Pharmacy Undergraduates JCDR 4(2) pp 2265-2270.
29. Imran A Syed, Mohamed .A. Hassali & Tahir M.Khan (2009) General Knowledge & Attitudes Towards Aids Among Final Year Medical And Pharmacy Students. Folia Medica 2010 (45)1, 9-13.
30. Khan T, Hassali M, Gillani S, Hameed M. (2009) Clinical presentation of “Rove Beetle Dermatitis”. AMJ, 1(7) 19-24. Doi 10.4066/AMJ.2009.77
31. Khan, T. Mehmood., Syed, A.S. Sulaiman. & Mohamed A. Hassali et al., Mental Health Literacy Toward depression Among Non-Medical students at a Malaysian University. Mental Health in Family Medicine 2010;7:27–35.
32. Khan. T.M, Syed .A.S & Mohamed A. H: 2009; Evaluation of Cost and Daily Drug Dose of Fluoxetine and Sertraline in General Hospital Pulau Penang Malaysia Jan-Mar 2009, Vol 2, Issue 1 Asian Journal of Pharmaceutical and clinical practices.
33. Khan. T.M, Syed .A.S & Mohamed A. H: 2009; The Causes of Depression? A Survey among Malaysians about perception for causes of depression April-Jun 2009, Vol 2, Issue 2 Asian Journal of Pharmaceutical and clinical practices
34. Khan.TM, Ejaz. MA & Azmi.S (2009) Evaluation of Communication Apprehension among First Year and Final Year Pharmacy Undergraduates. JCDR Vol 3(6) 1885-1890.
35. Mohamed .A. Hassali , Tahir .M. Khan & Asrul A Shafie (2009) Motivational Factors to Choose Pharmacy as a Career; Findings of a Preliminary Survey Conducted Among Pharmacy Undergraduate Students. Technics Technologies Education Management Vol 4(1).
36. Mohamed .A. Hassali , Tahir .M. Khan & Asrul A Shafie (2009) Evaluation of Public Knowledge toward the Use of Herbal Beverages in Penang, Malaysia Vol(1) issue (4) Australasian Medical Journal.

32. Saira. A, Hassali. MA , Izham MI & Khan .TM (2009) A Qualitative Evaluation of Nurses' Perception towards the Role of Pharmacist in Healthcare Setup in Pakistan. HealthMed Journal Vol(3) issue (4).
33. Tahir M Khan (2009) Quality Use of antidepressants; How pharmacist can plays their part. International Journal of Medicine and Medical Sciences Vol 1(10).
34. Tahir M Khan, Syed A Sulaiman, Mohamed A Hassali & Humera Tahir (2009) Factors Associated with Para-Suicidal Behavior among the Depress Patients in Penang, Malaysia [ In review] Archives of Medical Sciences.
35. Tahir. M. Khan, Mudassir Anwar & Wasif .G. (2009) Knowledge Towards Breast Cancer Among Malaysian University Students [ In press] The Breast Journal
36. Tahir. M. Khan, Nor Hayati Binti Arif & Mudassir Anwar. (2009) Role of Husband Knowledge and Behaviour in Postnatal Depression: A Case Study of a Immigrant Pakistani women. Mental Health in Family Medicine 6(4) pp. 195-201(7).
37. Tahir. M.Khan Syed.A.Sulaiman & Mohamed. A. Hassali (2009) Attitude toward Depression, Its Complications, Prevention and Barriers to Seeking Help among Ethnic groups in Penang, Malaysia. Mental Health In Family Medicine 6(4) pp. 219-227(9).
38. Tahir. M.Khan Syed.A.Sulaiman & Mohamed. A. Hassali (2009) Incidence of Depression and Its Demographic Correlates: Outcome of Descriptive Study at the Psychiatry OPD Penang, Malaysia HealthMed Journal 3(3).
39. Tahir. M.Khan Syed.A.Sulaiman & Mohamed. A. Hassali (2009) Risk Factors for Depression; Findings of a Descriptive Study Conducted in Penang Malaysia. JCDR Vol 3(6) 1859-1866.
40. Wasif.S, Tahir. M. K., et al (2009) In a way to treat addiction; Is therapeutic outcomes effective? HealthMed Journal 3(1) pp 8-16.
41. Wasif.S, Tahir. M. K., et al, A retrospective evaluation of Septic shock in Medical ward Pulau Penang! Year 2007. Jan-Mar 2009, Vol 2, Issue 1 Asian Journal of Pharmaceutical and clinical practices.
42. Zafar Iqbal , Abbas khan, Attiqa Naz, Muhammad Saeed, Fazli Nasir, Ghulam Sarwar khan & Tahir Mehmood Khan (2009) In-Vivo Drug-Drug Interaction Studies Of Ciprofloxacin With Naproxin Sodium In Healthy Human Volunteers. Folia Medica Serajevia Vol 44(2) 57-64.

*If you judge people, you have no time to love them.  
Mother Teresa*

### 3. Mr. Tahir M. Khan

#### Presentation at Conferences

1. M.A. Hadi, R. Rahman, S.S. Hassan, M.A. Hassali and T.M. Khan. Attitudes of Malaysian undergraduate pharmacy students towards complementary and alternative medicine. Royal Pharmaceutical Society 2011 International Journal of Pharmacy Practice, 19 (Suppl. 2),105
2. Tahir MK & Baig MR . Hospital Pharmacist Attitudes towards patients living with HIV/AIDS in Kedah State, Malaysia. 1st Medication Safety Conference, King Saud University, Riyadh, Saudi Arabia
3. Tahir .M. Khan & Manssor Alturkey. A Study Investigating The Level Of Satisfaction With The Health Services Provided By The Pharmacist At ENT Hospital, Eastern Region Alahsah, Kingdom Of Saudi Arabia. 1st Medication Safety Conference, King Saud University, Riyadh, Saudi Arabia
4. Tahir M Khan & Mirza Rafi Baig. Hospital Pharmacist Knowledge and attitudes toward HIV Patients and its pharmacotherapy. ACCP Hong Kong, 7th – 9th July 2012
5. Khan, T. Mehmood & Syed, A.S. Sulaiman. A review of Challenges to medical education. 6<sup>th</sup> Asia Pacific Medical Education Conference, (Feb 2009) National University of Singapore.
6. Tahir M Khan , Mudassir Anwar , Syed Wasif Gillani & Amer Hayat Khan (2009) Role of Husband Knowledge and Behavior in Postnatal Depression: A Case Study of South Asian Women. CSPS Symposium 2009 Organizing Committee.
7. Tahir .M. Khan, Mohamed .A. Hassali & Asrul A Shafie Evaluation of Public Knowledge toward the Use of Herbal Beverages in Penang, Malaysia CSPS Symposium 2009 .
8. Tahir .M. Khan, Mohamed .A. Hassali & Asrul A Shafie A Study Investigating Factors and Motivations to Choose Pharmacy as a Career among Pharmacy Students Symposium 2009
9. Mudassir Anwar, M. Imran Masood, Asifa Khanum, Tahir M. Khan, Unethical Marketing Practices by Pharmaceutical Companies in Pakistan: A Preliminary Survey Conducted in Two Provinces of Pakistan CSPS Symposium 2009 .
10. Wasif. S, Tahir. M. K., et al (2009) Microorganisms Susceptibility and therapeutic Management in secondary septicemia; Retrospective evaluation of medical records in Penang hospital. September, Oslo Norway.
11. Wasif. S. Gillani., Azhar. S. Sulaiman, Tahir. MK. Hameed. A. Amir. HK. Microbial load and antibiotic resistance: retrospective and pathological evaluation of hospital control measure year 2007. 6<sup>th</sup> Annual Canadian Conference on International Health & Health Equity: Our Global Responsibility, Oct 25 -28, 2009, Ottawa, ON, Canada.
12. Khan. T.M, Syed .A.S & Mohamed A. H: 2008; Recognition of depression among Malaysian. 11th Bridging Eastern and Western Psychiatry Congress Turkey.
13. Khan. T.M, Syed .A.S & Mohamed A. H: July 2008; A study on help seeking interventions for depression among students at a Malaysian Uni, 8<sup>th</sup> ACCP Conference Surabaya Indonesia.
14. Khan. T.M, Syed .A.S & Mohamed A. H: July 2008; Public believes about the complications of depression, 8<sup>th</sup> ACCP Conference Surabaya Indonesia.
15. Khan. T.M, Syed .A.S & Mohamed A. H: July 2008; Do Malaysians recognize depression? Outcome of a Preliminary population based survey International Life Sciences Conference, USM Penang Malaysia.
16. Khan, T. Mehmood., Syed, A.S. Sulaiman. & Mohamed A. Hassali. Students Perceptions & Recognition about Depression: Outcome of a survey conducted at a Malaysian University (Dec 2008) 2<sup>nd</sup> Pharmacy congress, Uni. Santo Tomas Faculty of Pharmacy Manila, Philippines.

## C. DEPARTMENT OF PHARMACY PRACTICE

**4. Dr. Muhammad Fathullah Muhammad Zaitoun**

*B. Pharm, M. Sc., Pharm D, University Of Alexandria, Egypt*

**LECTURER,**

**TEACHING EXPERIENCE** : 2 years of Teaching experience in teaching Drug information services, Therapeutics, Evidence Based practice.

**CURRENT PROJECTS & RESEARCH INTEREST :**

1. Drug use Evaluation
2. Pharmacotherapeutics
3. Evidence Based Practice
4. Pharmacoepidemiology
5. Drug information services

**Workshops attended**

- ◆ An Evaluation Of A Clinical Pharmacist Directed-Intervention To Rationalize Overuse Of Stress Ulcer Prophylaxis In Intensive Care Unit. The Third International Conference For Improving Use Of Medicines, Antalya-Turkey, November 14-18, 2011
- ◆ The Fifth Psychiatric Pharmacy Symposium , Al Amal Complex for Mental Health – Riyadh May 2012
- ◆ The third world kidney conference, King Fahd Hospital Al-Ahasaa, April 2012 (Speaker)
- ◆ First International ASCO-Gulf joint conference “Management of colon breast and lung cancer : Update and future Prospects, Dammam, March 2012
- ◆ “Towards better anticoagulation therapy” symposium, Dhahran Health Center- SAMSO, November 2011



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#### **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)*

## 5. Dr. Kazeem Babatunde Yusuff

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

### **ASSISTANT PROFESSOR, CLINICAL PHARMACY**

**TEACHING EXPERIENCE :** Twelve year Experience of teaching Clinical Pharmacy, Clinical Clerkship, Pharmacy Laws and Ethics, Health Care System, Pharmaceutical care, Therapeutics-3 Institutional Pharmacy Practice Experience-1 & 11, Advanced Pharmacy Practice Experience .Advanced Pharmacotherapeutics, Drug information services, 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. **Yusuff KB.** Perceived medications use challenges and self-initiated coping strategies used by medical outpatients. *International Journal of Clinical Pharmacy*.2012 Accepted.
2. **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
3. **Yusuff K.B,** Sanni A. Itinerant vending of medicines inside buses in Nigeria: vending strategies, dominant themes and medicine-related information provided. *PharmacyPractice* 2011; 9(3): 128-135
4. **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
5. **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

6. **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.
7. **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.
8. **Yusuff K. B.** & Tayo F. Drug supply strategies, constraints and prospects in Nigeria. *African Journal of Medicine & Medical Science*, 2004; 33: 389-94.
9. **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.
10. **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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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
16. **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



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## 6. Dr. El Walid El Hassan

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

### LECTURER

**WORK EXPERIENCE :** 8 Years of training experience in Institutional Pharmacy 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.

## 7. Dr. Amaal 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.

## 8. 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.

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of Clinical Pharmacy,  
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[Sazhar@kfu.edu.sa](mailto:Sazhar@kfu.edu.sa)

## 9. Dr. Saira Azhar

B.Ph., M. Ph, Baqai Medical University, Pakistan Ph.D. University Sains Malaysia, Malaysia

### ASSISTANT PROFESSOR,

**TEACHING EXPERIENCE** : 8 Years of training experience in teaching pharmaceutical care, Institutional Pharmacy, Therapeutics.

### RESEARCH INTEREST :

1. Pharmacy Practice
2. Public Health
3. Pharmacoepidemiology

### LIST OF PUBLICATIONS:

1. Azhar S, Hassali MA, Ibrahim. MIM. Evaluating perception of hospital pharmacist towards their current clinical role in Pakistan's healthcare system. Value in Health 2010: 13(7):384 (Impact Factor 3.032)
2. Azhar S, Hassali MA, Ibrahim. MIM, Saleem. F, Liau. SY. Nurses' Perception and Expectations towards the role of pharmacist in Pakistan's healthcare system: A Quantitative approach. Journal of Advanced Nursing 2010. (Impact Factor 1.518, USM Award)
3. Azhar S, Hassali MA, Ibrahim. MIM. A study evaluating perception of hospital pharmacist towards their role in Pakistan's healthcare system: a quantitative assessment. Tropical Journal of Pharmaceutical Research 2011:10(1) 11-17 (Impact Factor 0.538)
4. Saleem F, AL-Qazaz HK, Azhar S, Ahmad N, Atif M, Haq N, Asif M, Iqbal Q. Status of pharmacist at community level: An exploratory study in Quetta , Pakistan Value in Health 2011: 14(5):20 (Impact Factor 3.032)
5. Saleem F, Azhar S AL-Qazaz HK, , Ahmad N, Atif M, Haq N, Asif M, Iqbal Q. Self Medication assessment of status, practices and perception Value in Health 2011: 14(5):111 (Impact Factor 3.032) Shafie, A. A, Hassali MA, Azhar S. Ooi Guat See, Separation of prescribing and dispensing in Malaysia: A summary of arguments. Research in Social and Administrative Pharmacy 2011: 8(3) 258-262.
6. Uzma Saleem, Saeed Mahmood, Bilal Ahmad, Alia Erum, Azhar S, Bashir Ahmad Benzodiazepine Poisoning Cases: A Retrospective Study From Faisalabad, Pakistan Pakistan Journal of Pharmacy 2011.

7. Uzma Saleem, Saeed Mahmood, Bilal Ahmad, Alia Erum, **Azhar S.** Bashir Ahmad Benzodiazepine Poisoning Cases: A Retrospective Study From Faisalabad, Pakistan Pakistan Journal of Pharmacy 2011.
8. Muhammad Hassham Hassan Bin Asad, Ghulam Murtaza, Sami Siraj, Shujaat Ali Khan, **Saira Azhar**, Muhammad Sikander Hussain, Tariq Ismail, Muhammad Shahzad Hussain and Izhar Hussain, Enlisting the scientifically unnoticed medicinal plants of Pakistan as a source of novel therapeutic agents showing anti-venom activity African Journal of Pharmacy and Pharmacology Vol. 5(20), pp. 2292-2305. **(IF: 0.667)**
9. Farzana K, Noreen S, Nasir B, **Azhar S.** Mumtaz A, Sethi A, Asad M. H. Khan B. A.. Khan S. A, Murtaza G. Comparative analysis of minimum inhibitory concentration of various brands of cephalosporin against clinical isolates of Staphylococcus aureus. Scientific Research and Essays Vol. 6(31), pp. 6428-6434, 16 December, 2011. **(Impact Factor 0.445)**
10. **Azhar S.** Hassali MA, Ahmad. M, Saleem F, Jamsed S, Haq N, Masood I. Perception of Academic Pharmacist towards their Role in Health Care System of Pakistan: A Qualitative Assessment. Malaysian Journal of Pharmacy Vol 1, Issue 9, 2011.
11. **S. Azhar** Hassali MA, Ghulam Murtaza, Hussain Izhar Current Clinical Practices in Pakistan and Hospital Pharmacist's Perception towards Their Role: A Qualitative Approach, Latin American Journal of Pharmacy 31 (2): 368-73 (2012)
12. G. Murtaza, **S. Azhar**, S. Noreen, S. A. Khan, A. Khan, B. Nasir, A. Mumtaz, M. Zaman And M.S.U. Rehman. An evaluation of Pakistani pharmacy students' knowledge of herbal medicines in Pakistan. African Journal of Pharmacy and Pharmacology Vol. 6(3), pp. 221-224. January, 2012 **(Impact Factor 0.667)**
13. Ghulam Murtaza, **Saira Azhar**, Ayisha Khalid, Bushra Nasir, Muhammad Ubaid, Muhammad Khurran Shahzad, Fatima Saqib, Iftikhar Afzal, Sobia Noreen, Muhammad Tariq, Tahir Ali Chohan and Abdul Malik. Development of *in vitro-in vivo* correlation for pharmacokinetic simulation. African Journal of Pharmacy and Pharmacology Vol. 6(4), pp. 257-263, 29 January, 2012 **(Impact Factor 0.667)**
14. Majeed ullah, Ghulam Murtaza, **Saira Azhar** Izhar Hussain Study of Drug Release Retardant Capability of Hydroxypropylmethylcellulose and Carbopol in Matrix Tablets Latin American Journal of Pharmacy 31 (1): 78-83 2012 **(Impact Factor 0.308)**
15. Tahir M Khan, Chohan M Shahzad, Mueen KK Ahmed and **Saira Azhar** Attitudes of Emergency Department Staff towards the Role of Clinical Pharmacists in a Region of Saudi Arabia - A Pilot Study, Tropical Journal of Pharmaceutical Research, June 2012; 13 (3): 477-483 **(Impact Factor 0.538)**

## 9. Dr. Saira Azhar

16. Saira Azhar, M.A. Hassali, S. Maira Faizullah, Rabeeha. Khan, Arooj Sahir, Izhar Hussain, "A Qualitative Study Evaluating Perceptions of Nurses Towards the Role of Pharmacist in Pakistan", Value in Health, 15(4), A206, 2012 (Impact Factor 2.342)
17. Saira Azhar, Muhammad Shoaib Akram, Pariwash Qureshi, M. Muddassir Khan, Bibi Saima Zeb, Izhar Hussain, "Evaluating The Prevalence Associated With Smoking Behavior Among University Students In Pakistan", Value in Health , 15(4), A60,2012 (Impact Factor 2.342)
18. Saira Azhar, Hassali M. Azmi, Hussain Izhar, "Evaluating The Perception Of General Public Towards The Role Of Pharmacist In Health Care System Of Pakistan", Value in Health , 15(4), A199,2012 (Impact Factor 2.342)
19. Saira Azhar, Arooj Sahir, Rabeeha Khan, Maira Faizullah Shah, Izhar Hussain, "Evaluating The Incidence Of Side Effects In Newly Diagnosed Tuberculosis Patients Of Khyber Pakhtoon Khuwa", Value in Health , 15(4), A51, 2012. (I F: 2.342)
20. Asad, MT Razi, G Murtaza, S Azhar, SA Khan<sup>1</sup>, QNU Saqib and I. Hussain Antihaemorrhagic Potential of Citrullus colocynthis Schrad (Cucurbitaceae) against Naja naja karachiensis (Black Pakistan Cobra) Venom Journal of Medicinal Plants Research Vol. 6(18), pp.3455-3458, 16 May, 2012

### CONFERENCE/SEMINAR/WORKSHOP:

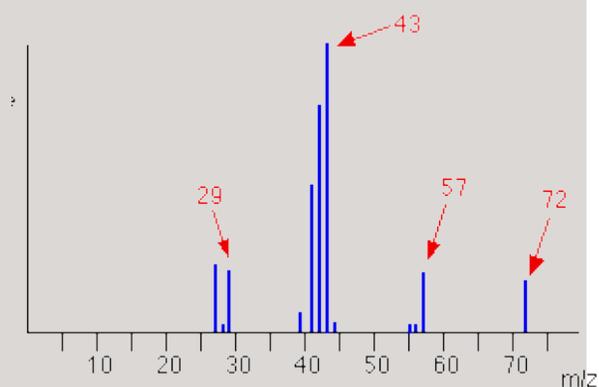
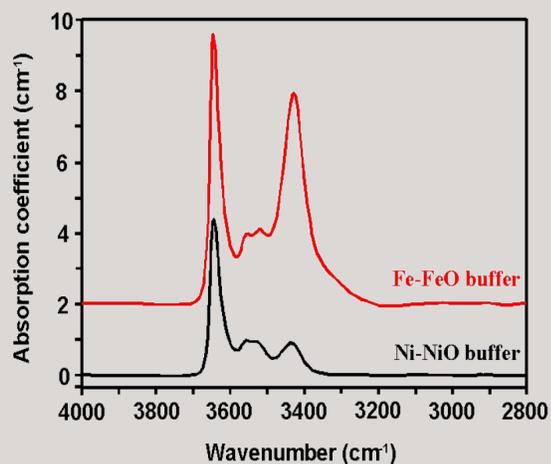
1. Azhar S, Hassali MA. & Ibrahim M I M. Evaluating perception of doctors towards the role of pharmacist in Pakistan's healthcare system.15<sup>th</sup> International Pharmacy Conference and Exhibition 12-15, 2009, Lahore, Pakistan.
2. Masood, I., Ibrahim, M. I. M., Hassali, M. A. A., Ahmad, M., Azhar, S. & Jamshed, S. (2009) Trends of drug promotion In Pakistan: an exploratory study. *15th International Pharmacy Conference and Exhibition*. Lahore, Pakistan Pharmacists Association.
3. Haq, N. U., Ibrahim, M. I. M., Hassali, M. A. A., Shafie, A. A., Saleem, F., Azhar, S., Jamshed, S. & Masood, I. (2009) Status of pharmacists working at community pharmacies (medical stores) in Quetta city, Pakistan. *Malaysian J Pharmacy*, 1, S103.
4. Saleem, F., Hassali, M. A. A., Shafie, A. A., Haq, N. U., Azhar, S., Jamshed, S. & Masood, I.(2009) Status, practices and perception of self-medication among general population of Quetta city, Pakistan. *Malaysian Journal of Pharmacy*, 1, S91.

5. **Azhar S**, Hassali MA. & Ibrahim M I M. Exploring role and responsibilities of community pharmacists in healthcare system of Pakistan. 16th Annual Canadian Conference on International Health 25-28 October 2009. Ottawa, Ontario, Canada.
6. **Azhar S**, Hassali MA. & Ibrahim M I M, Ahmad M, Shafie AA., Saleem F. & Masood I. (2009) Evaluating perception of doctors towards the role of pharmacist in Pakistan's healthcare system. *Malaysian Journal of Pharmacy*, 1, S105.
7. **Azhar S**, Hassali MA. & Ibrahim M I M. Evaluating the perception of community pharmacists towards their role in Pakistan's healthcare system. A Qualitative approach. 10th Common Wealth Pharmacists Association & Pharmaceutical Society of Ghana Conference 19-21 May 2009 Accra-Ghana.
8. **Azhar S**, Hassali MA. & Ibrahim M I M. Doctors' perception and expectation towards the role of pharmacist in healthcare system of Pakistan. Asian Conference on Clinical Pharmacy 26-28 September 2009 Seoul South Korea.
9. **Azhar S**, Hassali, M.A.& Ibrahim, M.I.M. Nurses' perception and expectation towards the role of pharmacist in healthcare system of Pakistan. International Conference on Pharmacy and Advance Pharmaceutical Science 5-6 October 2009 Indonesia.
10. **Azhar S**, Hassali MA, Ibrahim. MIM. A Qualitative study evaluating perception of hospital pharmacist towards their role in Pakistan's healthcare system. 16<sup>th</sup> Health Services Research and Pharmacy Practice Conference 11- 12 April 2010 Manchester United Kingdom.
11. **Azhar S**, Hassali MA, Ibrahim. MIM. Evaluating perception of hospital pharmacist towards their role in Pakistan's healthcare system ISPOR 4<sup>th</sup> Asian-Pacific Conference 5-7 September 2010: Phuket Thailand.
12. **Azhar S**, Hassali MA, Ibrahim. MIM. Community pharmacists' perception towards their role in healthcare system of Pakistan: a quantitative assessment ISPOR 4<sup>th</sup> Asian-Pacific Conference 5- 7 September 2010: Phuket Thailand.
13. **Azhar S**, Hassali MA, Ibrahim. MIM. Perception of hospital pharmacist towards their current clinical role in healthcare system of Pakistan. ISPOR 13th Annual European Congress 6-9 November 2010: Prague, Czech Republic.

*Every child should have a caring adult in their lives. And that's not always a biological parent or family member. It may be a friend or neighbor. Often times it is a teacher.*



# 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 :  $\pm 0.13$  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 :  $4000\text{ cm}^{-1}$  to  $400\text{ cm}^{-1}$

Resolution :  $1\text{ cm}^{-1}$

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	: $\pm 1.5$ 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	: ± 0.2°C
Temperature reproducibility	: ± 0.1°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	: ± 1 °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. 30OC, Humidity max 75%.
Gas Needed	: He:99.995% (GC Grade), O <sub>2</sub> :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.*



### Nuclear magnetic resonance

Nuclear magnetic resonance spectroscopy can be used to study the structure of molecules, the interaction of various molecules, kinetics or dynamics of molecules, and the composition of mixtures of biological or synthetic solutions or composites. The size of molecules of interest can range from a small organic molecule or metabolite, to a mid-sized peptide or natural product, all the way up to proteins of several tens of kDa in molecular weight.

Make / Model : Bruker AVANCE-DRX-400

Broadband compact design high end NMR spectrometer

Easy siting in small analytical laboratories

Based on latest Avance™ III HD spectrometer technology

Ready for CryoProbe applications based on built-in preamplifiers

Includes most stable and compact Ascend™ magnet technology

Intuitive routine user interface TopSpin™

### Capillary Electrophoresis Mass spectrometer (CE- MS/MS)

CE/MS combines the short analysis time and high separation efficiency of capillary electrophoresis (CE) with the molecular weight and structural information from the mass selective detector (MS). The technique has been successfully used for the analysis of various compounds in complex sample matrices. The Agilent 7100 Capillary Electrophoresis system can be interfaced directly to any of the Agilent 6000 Series MS systems with full control of CE and MS from a single PC

**Make/ Model** : Agilent 7100

**Electrophoresis Power** : Voltage range : 0 to  $\pm 30$  kV supply , Current : 0–300  $\mu$ A, Power: 0–6 W

**Pressure System** : Programmable with -100 to +100 mbar on inlet, Flushing with 1 bar or with high pressure 2–12 bar, Vial pressurization with high pressure 2–12 bar on inlet and/or outlet

**Injection Modes:** Programmable range up to 10,000 seconds, Pressure -100 to +100 mbar, Electrokinetic -30 to +30 kV

#### MS/MS Detector

Higher scan speed – Full scan speeds of up to 12,500 Da/second

Ultra fast MRM acquisition speeds and ion polarity switching –1ms MRM dwell times, together with 30 ms fast polarity switching,

Streamline method development – Dynamic MRM (dMRM up to 4,000 compounds to be quantified in a single method with optimal sensitivity and reproducibility





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