

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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2011



STAFF RESEARCH HAND BOOK

2011

College Vision

The college be recognized nationally and internationally for preparing role models and leaders in pharmacy practice, education and research with strong social commitment.

College Mission

The primary mission of the College of Clinical Pharmacy at King Faisal University is to improve human health of the community through excellence in education, research and community services.

The college:

1. Prepares Pharm D graduates who will be providing direct patient care as effective team members in health care system as lifelong experts in therapeutic planning and intervention and rational use of medicines. This is achieved through an innovative academic program , excellence in teaching, clinical training, and planned development activities
2. Conducts exceptional research in basic and applied pharmaceutical sciences in the field of drug discovery, development and application.
3. Brings together dedicated faculty and competent students in a supportive and excellent teaching learning and research atmosphere that encourage continuous intellectual and personal development
4. Serves the community by sharing our expertise with the public and health care professionals by facilitating opportunities for continuing professional development and postgraduate education

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*Room Location : College of
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Dr. Ibrahim A. Alhaider,

B. Pharm., King Saud University, KSA,. Ph. D., University 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. **Ibrahim A. Alhaider**, Abdulaziz M. Aleisa, Trinh T. Tran and Karim A. Sleep deprivation prevents stimulation-induced increases of levels of P-CREB and BDNF: Protection by caffeine, *Molecular and Cellular Neuroscience*, 2011, 46(4), 742-751.
2. **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):437-44.
3. **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(8):1368-76.
4. 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*. n/a. doi: 10.1002/hipo.20806, 2010

ABSTRACTS:

1. 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.
2. M. Zagaar, **I. A. Alhaider**, K. Alkadhi; Effect of chronic endurance exercise on spatial memory impairment in acutely sleep-deprived rats. Soc Neuroscience, 2010.
3. **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.
4. **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.
5. 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.
6. 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.
7. 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.
8. **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.
9. 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.
10. K. A. Alkadhi, K. H. Alzoubi, **I. A. Alhaider**, A. M. Aleisa, M. Srivareerat. Chronic i.c.v infusion of β -amyloid impairs ganglionic transmission and synaptic plasticity in the superior cervical ganglion. Soc Neuro-

SEMINARS:

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

Role of Polyethylene Glycol 3350 in Gastrointestinal Tract, Sultan Bin Abdulaziz Humanitarian City, Riyadh. 2003.

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

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



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HONORS AWARDED:
Silver price from King Abdulaziz City for Science and Technology for the project title: Development of microfluidic devices and adoption of novel methods for drugs of abuse analysis.(2009)

Dr. Ahmed O. Alnajjar

B.Sc , King Fahad University, KSA , Ph.D. Ohio University, USA

ASSOCIATE PROFESSOR, Analytical & Pharmaceutical Chemistry

TEACHING EXPERIENCE:

Have a total teaching experience of 11 years at a university level. During this period, teaching undergraduate level laboratories and lectures courses comprising general chemistry and analytical chemistry including the following courses: General Chemistry, Analytical Chemistry (Volumetric and Gravimetric), Pharmaceutical Analytical chemistry and Instrumental Chemical Analysis (Spectroscopy, Chromatography, Electrochemical analysis).

RESEARCH INTERESTS:

1. Development of new analytical methods for extraction, analysis and detection of drugs in pharmaceutical and biological samples using analytical techniques such as GC, HPLC and CE.
2. Development of sensitive and selective methods for abused drugs analysis in biological fluids.
3. Development of microchip electrophoresis devices and its applications for drug analysis.

LIST OF PUBLICATIONS:

1. Ahmed O. Alnajjar. Simultaneous determination of amlodipin besylate and atorvastatin in tablet formulations and plasma by capillary electrophoresis. Submitted to: Journal of Chromatographic Since 2011.
2. Abubakr M. Idris, Rafea E.E. Elgorashe, Ahmed O. Alnajjar and Fahad N. Assubaie. High-throughput Sequential injection assay method for chlorpromazine. Submitted to: Journal of Analytical Chemistry 2011.3.
3. Abubakr M. Idris, Rafea E.E. Elgorashe and Ahmed O. Alnajjar. Developing new method for quantifying pindolol by sequential injection analysis. Accepted in: Journal of Analytical Chemistry 2011
4. Abubakr M. Idris and Ahmed O. Alnajjar. Inexpensive green method for diclofenac assay utilizing sequential injection chromatography. Chromatographia, 73, 2011, 431-437.
5. Ahmed O. Alnajjar. Validation of Capillary Electrophoresis Method for the simultaneous determination of Amlodipine Besylate and Valsartan in Pharmaceutical formulations and Human Plasma. J. AOAC International 94 (2), 2011, 1-5,.
6. Ahmed O. Alnajjar. Sequential injection-solid phase extraction and capillary electrophoresis for the analysis of Amlodipine Besylate and Atorvastatin in Tablet formulations and human plasma. Accepted in: Journal of Liquid Chromatography & Related Technologies 2010.

7. Ahmed O. Alnajjar. Simultaneous Determination of Captopril and Indapamide in Pharmaceuticals and Human Plasma by Capillary Electrophoresis. *Chromatographia*, 68, 2008, 437 – 442.
8. Abubakr M. Idris, Ahmed O. Alnajjar. Automated on-line sample treatment and quantitative determination of morphine in human urine by sequential injection analysis technique. *Talanta*, 77, 2008, 522 – 526.
9. Ahmed O. Alnajjar. Sensitive method for determination of morphine and 6-acetylmorphine in human urine using capillary electrophoresis with fluorescence detection. *Acta Chromatographica* 20, 2008, 227 – 238.
10. Mohamed E. El-Zaria, Ahmed Alnajjar, Afaf R. Genady. Spectroscopic studies of charge transfer complexes of meso-tetratolylporphyrin with π -electron acceptors in different organic solvents. *Arabian Journal of Chemistry*, 1, 2008, 9-24.
11. Ahmed Alnajjar and Mohamed E. El-Zaria. Synthesis and characterization of novel azo morphine derivatives for possible use in abused drugs analysis. *European Journal of Medicinal Chemistry*, 43, 2008, 357-363.
12. Ahmed Alnajjar, Abubakr M. Idris, Marika Multzenberg, Bruce McCord, Development of a capillary electrophoresis method for the screening of human urine for multiple drugs of abuse. *Journal of Chromatography B*, 856, 2007, 62-67.
13. Ahmed O. Alnajjar, Hamed AbuSeada, Abubakr M. Idris, Capillary electrophoresis for the analysis of norfloxacin and tinidazole in pharmaceuticals with multi-response optimization. *Talanta*, 72, 2007, 842-846.
14. Abubakr M. Idris, Ahmed O. Alnajjar, Multi-response optimization of a capillary electrophoresis method for the assay of vardenafil in pharmaceuticals. *Acta Chromatographica*, 19, 2007, 97-109.
15. Ahmed Alnajjar, Abubakr M. Idris, Hamed Abu Seada, Development of a stability-indicating capillary electrophoresis method for norfloxacin and its inactive decarboxylated degradant. *Microchemical Journal*, 87, 2007, 35-40.
16. Mohamed E. El-Zaria, Ahmed Alnajjar. Simple spectrophotometric determination of tinidazole through charge transfer complexation in pharmaceutical preparation and biological fluid. *Journal of Saudi Chemical Society*, 11, 2007, 405-418.
17. Ahmed Alnajjar, Jared A. Butcher., Bruce McCord, Determination of multiple drugs of abuse in human urine using capillary electrophoresis with fluorescence detection, *Electrophoresis* 25, 2004, 1592-1600.
18. Ahmed Alnajjar, Bruce McCord, Determination of heroin metabolites in human urine using capillary zone electrophoresis with β -cyclodextrin and UV detection. *Journal of Pharmaceutical and Biomedical Analysis*, 33, 2003, 463-473.

Genius is one percent inspiration, ninety-nine percent perspiration.
- Thomas A Edison

Dr. Ahmed O. Alnajjar,**International Conference Papers:**

1. Ahmed O. Alnajjar and Abubakr M. Idris. Microchip electrophoresis with fluorescence detection for the separation and determination of heroin metabolites. 35th International Symposium on High-Performance Liquid Phase Separations and Related Techniques (HPLC 2010), Boston, Massachusetts, USA 2010.
2. Abubakr M. Idris, Alnajjar O. Ahmed, Rafea E.E. Elgorashe. Experimental guidelines on developing sequential injection chromatographic methodology. 16th International Conference on Flow Injection Analysis Including Related Techniques. Pattaya, Thailand 2010.
3. Abubakr M. Idris and Ahmed O. Alnajjar, Chemometrics, a Powerful Tool for Optimizing Flow Injection Analytical Methods, Euroanalysis Conference, Innsbruck, Austria 2009
4. Ahmed O. Alnajjar. Developing microchip Electrophoresis biotechnology and its application to drugs of abuse analysis. Microscopy & Microanalysis, Richmond, Virginia, USA 2009.
5. Ahmed Alnajjar and Abubakr M. Idris. Microchip electrophoresis with laser induced fluorescence detection for the separation and determination of some drugs of abuse in biological fluids. 34th International Symposium on High-Performance Liquid Phase Separations and Related Techniques (HPLC 2009), Dresden, Germany 2009.
6. Ahmed Alnajjar and Abubakr M. Idris. Automated sample treatment and fluorescence derivatization by sequential injection for the determination of amphetamines in biological fluids by capillary electrophoresis. BioChromatography and Nanoseparation International Symposium, Montpellier, France 2008.
7. Abubakr M. Idris and Ahmed Alnajjar. What did will flow injection techniques provide for pharmaceutical, pharmacological and toxicological analysis? The 68th Inter. Congress of Pharmacy and Pharmaceutical Sciences (FIP), Switzerland 2008.
8. Ahmed Alnajjar. Sequential injection-solid-phase extraction for sensitivity enhancement in capillary electrophoresis: Application to abused drugs analysis in human urine. International Conference on Flow Injection Analysis, Germany 2007.

Instruments handled :*Gas Chromatography**High Performance Liquid Chromatography .**Capillary Electrophoresis**UV Visible Spectrophotometer**Spectrofluorophotometer**Flow Injection and sequential Injection Instruments.**Infra Red spectrophotometer**Mass and NMR*

9. Abubakr M. Idris and Ahmed Alnajjar. Sequential injection Analysis Technique for on-line Sample Treatment and Determination of Total Morphine in Human Urine. International Conference on Flow Injection Analysis, Germany 2007.
10. Ahmed Alnajjar. Capillary Electrophoresis for drugs analysis. 57th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Orlando, FL, USA 2006.
11. Ahmed Alnajjar. Capillary Electrophoresis with Fluorescence Detection for Abuse Drugs Analysis. Federation of Analytical Chemistry and Spectroscopy Societies, Quebec City, Canada 2005.
12. Ahmed Alnajjar and Bruce McCord. Determination of heroin metabolites in human urine using capillary electrophoresis with laser-induced fluorescence detection. Federation of Analytical Chemistry and Spectroscopy Societies. Florida, USA 2003
13. Ahmed Alnajjar and Bruce McCord. Determination of heroin using capillary electrophoresis coupled with UV and fluorescence detection. American Academy of Forensic Science, Atlanta, Georgia, USA 2002.

Research Projects:

1. "Developing microchip electrophoresis and its application to drugs of abuse analysis in biofluids". It is funded by King Abdulaziz City for Science and Technology started at 01 Jan. 2011 and will end at 30 Dec. 2013 (\$200,000)
2. "Simultaneous estimation of Metformin and Miglitol by HPLC" It is currently being funded by Deanship of Scientific Research, King Faisal University; started at 26 Jan 2011 and will end at 30 Jan. 2012 (\$25,000)
3. "Developing microchip electrophoresis technology and applications to drug analysis". It is currently being funded by Deanship of Scientific Research, King Faisal University; started at 23 Jan 2010 and will end at 30 Nov. 2011 (\$53,000)
4. "Developing inexpensive analytical methods for pharmaceuticals employing sequential injection chromatography". It is currently being funded by Deanship of Scientific Research, King Faisal University; started at April 2009 and will end at April 2011 (\$53,000)

Scholarships:

Short-term Scholarship to visit International Forensics Research Institute at Florida International University, USA, for the purpose of conducting research. Funded by King Abdulaziz City for Science and Technology (Summer 2008).

Short-term Scholarship to visit International Forensics Research Institute at Florida International University, USA, for the purpose of conducting research. Funded by King Abdulaziz City for Science and Technology (Summer 2007)

Long-term Scholarship for the purpose of conduct Ph.D. degree from King Faisal University, Saudi Arabia to Ohio University, USA (1999 to 2004).

The best way to destroy your enemy is to make him your friend. -Abraham Lincoln

Dr. Ahmed O. Alnajjar,

5. "Development of Sequential Injection Chromatography Technology, the State-of-the-Art Microfluidic Separation Technology". It is currently being funded by King Abdulaziz City for Science and Technology started at 01 Dec. 2008 and will end at 30 Nov. 2010 (\$180,000).
6. "The analysis and detection of low explosives by capillary electrophoresis". It is currently being funded by the Deanship of Scientific Research, King Faisal University; started at 01 Apr. 2008 and ended on 31 Mar. 2010 (\$ 53,333).
7. "Development of microfluidic devices and adoption of novel methods for drugs of abuse analysis". It is currently being funded by King Abdulaziz City for Science and Technology started at 22 Dec. 2006 and ended on 21 Dec. 2008 (\$118,000).
8. "Exploitation of capillary electrophoresis technique for exploring new methods for pharmaceutical analysis". It is currently being funded by the Deanship of Scientific Research, King Faisal University; started at 01 Apr. 2006 and ended on 31 Mar. 2007 (\$ 53,000).
9. "The Development of New Analytical Methods for the Analysis of Abused Drugs in Human Urine using Capillary Electrophoresis". It was funded by the Deanship of Scientific Research, King Faisal University; 2005. (\$20,000).

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

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. 2010, Prediction of Melting Point Lowering in Eutectic Mixtures (Ph. D Thesis, University of Arizona)
2. 2009, Using NMP as a model for the solubility of the drugs [American Association of Pharmaceutical Society, AAPS]
3. 2009, Eutectic formation using PEG 400, [AAPS]
4. 2009, Eutectic formation using disposable syringe method, [AAPS]
5. 2008, Effect of the pH on the solubilization of the drugs in the Micelle, [AAPS]
6. 2007, Solubility of the sparingly soluble drugs using PVP, [AAPS]
7. 2004, Synergic drug evaluation, [Armed Forces Hospital].
8. 2004, Asthma & Counseling in asthmatic patient, [Armed Forces Hospital].



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Instruments Handled :

High Performance Liquid Chromatography (HPLC Hot stage.

Electronic microscope.

Differential Scanning Calorimetry (DSC)

KACST Project

Mueen Ahmed, Mahesh Attimarad, Sree Harsha, Bandar E Al Dhubaib, "HPTLC aided automated analytical profiling and quantification of natural products and active pharmaceutical ingredients (APIs) in pharmaceutical formulations" Submitted

Many of life's failures are people who did not realize how close they were to success when they gave up.

Thomas A. Edison



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Patent : Jordan K. Zjawiony, Ashraf A. Khalil, Alice M. Clark, Charles D. Hufford, and Khaled Y. Orabi "Samidazoles: New Antifungal Agents" USA Patent, No. 09/116,535 (1998).

HONORS AWARDED:

- Certificate of Merit, 3rd place award for the best research project, King Abdulaziz City for Science and Technology (KACST), Saudi Arabia, 2005.
- Graduates Scholarship (1993-1997) and Graduate Student Achievement Award (1996), Uni. of Mississippi, USA.
- The National Dean's List 1995-1997.

2. Dr. Ashraf A. Khalil

B. Sc , Al-Azhar University, & Ph.D. University of Mississippi, USA

ASSISTANT PROFESSOR, MEDICINAL CHEMISTRY

TEACHING EXPERIENCE:

Organic chemistry courses at the graduate and undergraduate levels. medicinal chemistry, spectroscopic methods of structural elucidation, including MS, NMR, IR and other instrumental methods of analysis and communication Skills.

RESEARCH INTERESTS:

Characterization of new monoamine oxidase inhibitors from synthetic and/ or natural sources; drug metabolism; chemical modification of natural products and syntheses of heterocyclic systems and biologically active compounds.

LIST OF PUBLICATIONS:

1. Kamel Metwally, Ashraf Khalil, Harris Pratsinis, Dimitris Kletsas. Synthesis, in vitro cytotoxicity, and a preliminary structure-activity relationship investigation of pyrimido[4,5-c]quinolin-1(2H)-ones Archiv. Der Pharmazie, 343: 465–472.2010.
2. Philippe Bissel, Ashraf Khalil, John M. Rimoldi, K. Igarashi, Emre Isin, Dale Edmondson, Tony Miller, Frank Fronczek, and Neal Castagnoli, Jr. "Stereochemical studies on the novel monoamine oxidase-B substrates (1R,6S)- and (1S,6R)-3-methyl-6-phenyl-3-aza-bicyclo[4.1.0]heptane" Bioorg. Med. Chem., 16, 3557- 3564 (2008).
3. Khalid A. El Sayed, Ashraf A. Khalil, Muhammad Yousaf, Guillermo Labadie, Mahesh K. Gundluru, Scott G. Franzblau, Alejandro M.S. Mayer, Mitchell A. Avery, and Mark T. Hamann "Semisynthetic Studies of the Manzamine Alkaloids" J. Nat. Prod. 71, 300-308 March (2008).
4. Ashraf A. Khalil, Bruce Davies, and Neal Castagnoli, Jr. "Isolation and Characterization of a Monoamine Oxidase B Selective Inhibitor from Tobacco Smoke" Bioorg. Med. Chem., 14(10), 3392-3398 (2006).
5. Abdulrahman M. Al-Obaid, Hassan A. Farag, Ashraf A. Khalil, Othman A. Al-Shabanah, Sami G. Abdel Hamid, Hassan A. El-Kashef, Ahmed M. Al-Afifi, Elrasheed A. Gadkariem and Hussein El-Subbagh "Synthesis and Investigation of Novel Shelf-Stable Brain-Specific MAO Inhibitors" Saudi Pharm. J. 14(1), 1-15 (2006).
6. John Rimoldi, Emre Isin, Philippe Bissel, Ashraf Khalil, and Neal Castagnoli, Jr. "A Novel and Selective Monoamine Oxidase B Substrate" Bioorg. Med. Chem., 13(20), 5808-5813 (2005).
7. František Hubálek, Claudia Binda, Ashraf Khalil, Min Li, Andrea Mattevi, Neal Castagnoli and Dale E. Edmondson "Demonstration of Isoleucine199 as a Structural Determinant for the Selective Inhibition of Human MAO B by

8. A. Khalil, F. Belal, and A. Al-Badr "Dipyridamole, Comprehensive Profile" Profiles of Drug Substances, and Related Methodology. (H. G. Brittain, Editor), Academic Press, New York, 31, 215-280 (2004).
9. I. Katsuyama, Ashraf. A. Khalil, C. Dunbar, and J. K. Zjawiony, "Concentration-Dependent Variation in ¹H-NMR Chemical Shifts of Aromatic Protons in Sam-pangine Derivatives", Spectroscopy Letters, 36 (5-6), 477-485 (2003).
10. Khalil, A.; El-Sayed, K.; Belal, F.; Khalil, N. Y. and Hamann, M. "Spectrofluorimetric Determination of Manzamine A in Spiked Human Urine and Plasma" Pharmazie.58 (6), 385-388 (2003).
11. Ashraf A. Khalil, Sami G. Abdel Hamid, Abdulrahman M. Al-Obaid and Hussein El-Subbagh, "Substituted quinazolines, 2. Synthesis and in vitro anticancer evaluation of new 2-substituted mercapto-3H-quinzoline analogs" Arch. Pharm. Pharm. Med. Chem. 336, 1-9 (2003).
12. Kay Castagnoli; Stefanus J. Steyn; Geraldine Magnin; Cornelis J. Van Der Scyf; Izel Fourie, Ashraf Khalil; and Neal Castagnoli, Jr "Studies on the Interactions of Tobacco Leaf and Tobacco Smoke Constituents and Monoamine Oxidase" Neurotoxicity Res., 4 (2), 151- 160 (2002).
13. S. G. Abdel Hamid, H. A. El-Obeid, K. A. Al-Rashood, A. A. Khalil, and H. I. El-Subbagh "Substituted Quinazoline, I. Synthesis and Antitumor Activity of Certain Substituted 2-Mercapto-4-(3H)-quinazolinone Analogs" Scienta Pharmaceutica (Sci. Pharm.). 69, 351- 366 (2001).
14. Isamu Katsuyama, Ashraf A. Khalil, Jianwei Ren, and Jordan K. Zjawiony "The Identification, Mechanism, and Improved Synthesis of a New and Unique Heterocyclic System with a Fused Imidazole Ring" Heterocycles, 54 (2),721(2001).
15. Ashraf A. Khalil, Salome Steyn and Neal Castagnoli, Jr. "Isolation and Characterization of a New MAO Inhibitor from Tobacco" Chem. Res. Tox., 13 (1), 31-35 (2000).
16. Jordan K. Zjawiony, Ashraf A. Khalil , Alice M. Clark, Charles D. Hufford, and Khaled Y. Orabi "Samidazoles: New Antifungal Agents" USA Patent, No. 09/116,535 (1998).
17. Jordan K. Zjawiony, Ashraf A. Khalil, Charles D. Hufford, Alice M. Clark and John K. Buolamwini "Studies on Methoxylation in The 7H-Naphtho[1,2,3-i,j][2,7] naphthyridin-7-one System." J. of Heterocyclic Chem., 34, 1233, (1997).
18. K. A. Al-Rashood, E. M. Abdel-Moety, O. A. Al-deeb, A. A. Khalil and N. A. Khattab "Derivative Spectrophotometry for Stability-indicating Determination of Norfloxacin in Bulk Form and Tablets." Scientia Pharmaceutica (Sci. Pharm.), 62, 225-235 (1994).
19. O. A. Al-Deeb, K. A. Al-Rashood and A. A. Khalil "Synthesis of New (1-Phenylcyclohexyl) Piperazine as Potential Analgesics" Bull. of Fac. Pharm., CairoUniv., 31(3) 475-479, (1993).
20. O. A. Al-deeb, E. M. Abdel-Moety, N. A. Khattab and A. A. Khalil "Potentiometric Titrimetry for Simultaneous Determination of Ampicillin and Dicloxacillin in Bulk and in Capsules." Acta Pharmaceutica Fennica, 101, 215-219, (1992).

GRANTS:

Ashraf A.Khalil Kamel A Metwally and Hafez Madkor, "Design and synthesis of novel compounds for prevention of Diabetic complications", KFU grant (2010, SR 165200)

Kamel A Metwally and Ashraf A.Khalil "Design and synthesis of novel tubulin polymerization inhibitors as anticancer agents" KFU grant (2010, SR 97,000)

Hassan H. Farag and Ashraf A. Khalil "Brain-Specific Delivery of Dopamine" King Saud University. (\$ 3200).

Abdul Rahman M. Al-Obaid; Hassan H. Farag; Hussein I. El-Subbagh; Othman A. Al-Shabanah; and Ashraf A. Khalil "Synthesis and Investigation of Novel Shelf-Stable Brain-Specific MAO Inhibitors" King Abdulaziz City for Science and Technology (KACST), Riyadh, SA. (\$ 114,130).

Ezzat M. Abdel-Moety; Omar A. Al-Deeb and Ashraf A. Khalil "Photochemical Stability-Indication of Certain Antifungal Agents" Research Center, College of Pharmacy, King Saud University. (\$ 5870)

SKILLS:

- *Enzyme kinetics.*
- *Multistep (small and large scale) syntheses.*
- *Chemical modification of natural products.*
- *Drug metabolism using radiolabeled drugs.*
- *Preparation of radioligands using different nuclides e.g. Tc-99m and Re-188.*
- *Handling of radioactive isotopes e.g. ^{14}C , ^{54}Mn , Tc-99m and Re-188.*
- *Isolation and purification of the natural products, utilizing successive solvent extraction, normal and reversed-phase chromatography (including TLC and HPLC), distillation and crystallization.*
- *Spectroscopic identification of natural products utilizing NMR (1D and 2D), UV, IR and MS.*
- *Hands on experience with the following instruments: Bruker Avance 300 and 400 MHz NMR, Varian 400 MHz NMR, Beckman Model DU-50 spectrophotometer, Perkin-Elmer Infrared spectrophotometers, HP 5973*

Dr. Ashraf A. Khalil,**PRESENTATIONS:**

1. Ashraf A. Khalil and Neal Castagnoli, Jr. "Characterization of a monoamine oxidase B selective inhibitor from tobacco smoke" The 9th International Pharmaceutical Sciences Conference and Exposition, Riyadh , Saudi Arabia, December 17-21, 2005.
2. František Hubalek, Claudia Binda, Ashraf Khalil, Thangaraju Murugesan, Min Li, Andrea Mattevi, Neal Castagnoli, and Dale E. Edmondson "Structural Determinants for Reversible Inhibitors that Specifically Bind to Human Monoamine Oxidase B but not to Human Monoamine Oxidase A. 11th Amine Oxidase Workshop, Amine Oxidases: Function and Dysfunction, University of St. Andrews, Scotland, UK. July 25-29, 2004.
3. Ashraf A. Khalil. "Chemistry of New Agents from Tobacco Against Parkinsonism" Research Center, College of Pharmacy, King Saud University, Riyadh, SA. Nov. 2001.
4. J. K. Zjawiony, I. Katsuyama, A. A. Khalil, D. C. Dunbar, "Unusual Chemical Shift Variation Observed in ^{15}N and ^1H NMR Studies of Sampangine and its Derivatives", 220th American Chemical Society National Meeting, Washington DC, August 20-24, 2000.
5. Kay Castagnoli, A. Khalil, J. Petzer, S. Steyn, S. J. Steyn and N. Castagnoli Jr "Inhibition of Human MAO-A and MAO-B and Neuroprotection in the MPTP C57 Mouse Model by a Compound Isolated from Tobacco Leaves. 9th International Amine Oxidase Workshop, The Millennium Meeting; Amine Oxidases: Enzymes with Novel Functions? July 9-12, 2000, Barcelona, Spain.
6. K. Castagnoli, A. Khalil, S. Steyn and N. Castagnoli Jr. "Inhibition of Human MAO-A and MAO-B by a Compound Isolated from Flue-Cured Tobacco Leaves" Division of Chemical Toxicology, 219th American Chemical Society National Meeting, San Francisco, CA, March 26-30, 2000.
7. Ashraf A. Khalil, and Neal Castagnoli, Jr. "Isolation and Characterization of a Potent MAO Inhibitor from Tobacco" ISSX National Meeting , 1999, Nashville, TN, USA.
8. Jordan K. Zjawiony , Ashraf A. Khalil, Alice M. Clark, and Charles D. Hufford. "Sampangine Derived Imidazoles as New Antifungal Agents" 216th American Chemical Society National Meeting, 1998, Boston, MA, U.S.A.
9. Ashraf A. Khalil, Alice M. Clark Charles D. Hufford and Jordan K. Zjawiony. "Samidazole: New Antifungal Agents" 39th Annual Meeting of the ASP, 1998, Orlando, FL, U.S.A.

10. Ashraf A. Khalil, and Jordan K. Zjawiony. "Nucleophilic Substitution versus Addition in Sampangine System" 214th American Chemical Society National Meeting, 1997, Las Vegas, NV, U.S.A.
11. Ashraf A. Khalil, Alice M. Clark Charles D. Hufford and Jordan K. Zjawiony. "Recent Progress in the SAR Studies of Sampangines" 38th Annual Meeting of the ASP, 1997, The University of Iowa, Iowa City, IA, U.S.A.
12. Ashraf A. Khalil, and Jordan K. Zjawiony "Kinetically and Thermodynamically Controlled Nucleophilic Substitution in Sampangines" 35th National Organic Symposium (ACS), 1997, Trinity University, San Antonio, TX, U.S.A.
13. Ashraf A. Khalil, Alice M. Clark, Charles D. Hufford and Jordan K. Zjawiony "Structur- Activity Relationship Studies of Sampangines" 24th Annual MALTO Meeting, 1997, The University of Arkansas Medical Center, Little Rock, AR, U.S.A.
14. Jordan K. Zjawiony, Anita R. Srivastava, Ashraf A. Khalil, Charles D. Hufford and Alice M. Clark "Sampangines: New Antifungal Alkaloids of Natural Origin", 211th American Chemical Society National Meeting, 1996, New Orleans, LA, U.S.A.
15. Ashraf A. Khalil, Jordan K. Zjawiony, Charles D. Hufford and Alice M. Clark "Nucleophilic Substitution in Sampangine System" Joint 51st Southwest/ 47th Southeast Regional Meeting of American Chemical Society,, 1995, Memphis, TN, U.S.A.
16. Ashraf A. Khalil, Jordan K. Zjawiony, Charles D. Hufford and Alice M. Clark "Antifungal Copyrine Alkaloids: The Synthesis of New A- and B-Ring Functionalized Sampangines by Nucleophilic Substitution." 36th Annual Meeting of the ASP, 1995, University of Mississippi, Oxford, MS, U.S.A.
17. Ashraf A. Khalil, Jordan K. Zjawiony, Charles D. Hufford and Alice M. Clark "Antifungal Copyrine Alkaloids: A Convenient Synthesis of 3-Methoxysampangine" 22nd Annual MALTO Meeting, 1995, Xavier University, New Orleans, LA, U.S.A.
18. Jordan K. Zjawiony, Ashraf A. Khalil, Charles D. Hufford and Alice M. Clark "Nucleophilic Substitution in Sampangine System: The Synthesis of 3-Methoxysampangine." 35th Annual Meeting of the ASP, 1994, Halifax, Canada.

**DMPK STUDIES CONDUCTED
AT ABC LABS:**

A) As a Study Director:

[⁵⁴Mn]Cl₂ and [⁵⁴Mn]40484: Pilot Studies After Oral and Intravenous Dosing in Male Sprague-Dawley Rats. (Dec. 2002/ Jan. 2003).

Pharmacokinetic Study in Beagle Dogs after a Single IV Dose of ^{99m}Tc-Labeled AcuTect™, Administered at Two Different Dose Levels. (Sep. 2002-Feb. 2003).

B) As a Principal Investigator:

Analysis of Metabolites in Blood Plasma of Long-Evans Rats Treated with [¹⁴C]Alachlor. (Nov.2002-Jan. 2003).

Analysis of Metabolites in Blood Plasma of CD-1 Mice Treated with [¹⁴C]Alachlor. (Nov. 2002-Jan. 2003).

Orientating Intravenous Expanded Single Dose Toxicity Study in the Rat with the Rhenium (Re-188) Labeled Kit for the Preparation of Rhenium Re-188 P2045(ZK259317, SH R03642C). (Jan. 2003).

KACST Project

Ashraf A.Khalil Kamel A Metwally and Othman Al-Shabana, Computer-assisted design and synthesis of novel aldose reductase inhibitors for prevention of diabetic complications. (2011 SR 951,000)

*What you earn depends on what you learn.
President William Clinton*



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GRANTS:

Kamel A Metwally and Ashraf A.Khalil " Design and synthesis of novel tubulin polymerization inhibitors as anticancer agents" KFU grant (SR 97,000)

Ashraf A.Khalil Kamel A Metwally and Hafez Madkor, " Design and synthesis of novel compounds for prevention of Diabetic complications", KFU grant (SR

KACST Project

Ashraf A.Khalil Kamel A Metwally and Othman Al-Shabana, Computer-assisted design and synthesis of novel aldose reductase inhibitors for prevention of diabetic complications. (2011 SR 951,000)

3. Dr. Kamel A. Metwally

B.Sc, M.Sc, & Ph.D Zagazig University and Virginia Commonwealth Uni, USA.

ASSOCIATE PROFESSOR, MEDICINAL CHEMISTRY

TEACHING EXPERIENCE : 20 years experience in teaching medicinal chemistry and general chemistry.

RESEARCH INTEREST :

Design and synthesis of bioactive molecules including anticancer, antimetabolic agents, anti-inflammatory agents and aldose reductase inhibitors.

PUBLISHED PAPERS : 14 publications

LIST OF PUBLICATIONS:

1. Kamel Metwally, Ashraf Khalil, Harris Pratsinis, Dimitris Kletsas. Synthesis, in vitro cytotoxicity, and a preliminary structure-activity relationship investigation of pyrimido[4,5-c]quinolin-1(2H)-ones *Archiv. Der Pharmazie* 343: 465–472.2010.
2. Metwally, K., Yaseen, S., Lashine, E., El-Fayomi, H. and El-Sadek, M. Non-carboxylic analogues of aryl-propionic acids: synthesis, anti-inflammatory activity and ulcerogenic potential. *Eur. J. Med. Chem.*, 42, 152-160 (2007).
3. Metwally, K., Pratsinis, H., and Kletsas, D. Pyrimido[4,5-c]quinolin-1(2H)-ones as a novel class of antimetabolic agents: synthesis and in vitro cytotoxic activity. *Eur. J. Med. Chem.*, 42, 344-350 (2007).
4. Metwally, K., Aly, O., Aly, E., Banerjee, A., Ravindra, R. and Bane, S. Synthesis and biological activity of 2,5-diaryl-3-methyl-pyrimidino[4,5-c]quinolin-1(2H)-one derivatives. *Bioorg. Med. Chem.*, 15, 2434-2440 (2007).
5. Metwally K., Aly, E., Aly, O. and El-Nabtity S. Spirohydantoin derivatives derived from 1-tetralone: design, synthesis and exploration of their anticonvulsant activity and neurotoxicity. *Bull. Fac. Pharm. Cairo Univ.*, 45, 149-154 (2007).
6. Metwally, K., Abdel-Aziz, L., Lashine, E., Hussein, M. and Badawy, R. Hydrazones of 2-arylquinoline-4-carboxylic acid hydrazides: synthesis and preliminary evaluation as antimicrobial agents. *Bioorg. Med. Chem.*, 14, 8675-8682 (2006).
7. Sukkar, O., Metwally, K., Abu Koll, M. and El-Adl, S. Increasing sensitivity of colorimetric determination of basic drugs through ion pair complex formation. *Zagazig J. Pharm. Sci.*, 14, 32-39 (2005).
8. Glennon, R., Metwally, K., Dukat, M., Ismaiel, A., De Los Angeles, J., Herdon, J., Teitler, M., and Khorana, M. Ketanserin and spiperone as templates for novel serotonin 5-HT_{2A} antagonists. *Curr. Top. Med. Chem.*, 539-558, 2, (2002).

9. Lashine, E., El-Adl, S., Metwally, K., and Abou-Kull, M. Synthesis of some new quinoline derivatives of potential antimicrobial activity. *Zagazig J. Pharm. Sci.*, 8, 23-27 (1999).
10. El-Adl, S., Metwally, K., and Abou-Kull, M. Utility of dichloromaleimide derivative as a chromogenic reagent for the spectrophotometric determination of certain fluoroquinolones and related compounds. *Zagazig J. Pharm. Sci.*, 8, 13-17 (1999).
11. Metwally, K., Dukat, M., Egan, C., Smith, C., DuPre, A., Gauthier, C., Herrick-Davis, K., Teitler, M., and Glennon, R. Spiperone: influence of spiro ring substituents on 5-HT_{2A} serotonin receptor binding. *J. Med. Chem.*, 41, 5084-5093 (1998).
12. Metwally, K., Dukat, M., and Glennon, R. Azaspirodecanones: structure-affinity relationships for 5-HT_{2A} serotonin receptor binding. *Virginia J. Sci.*, 48, 141 (1997).
13. El-Sadek, M., Abdel Aziz, L., and Metwally, K. Synthesis and biological activity of certain flurbiprofen derivatives. *Zagazig J. Pharm. Sci.*, 5, 29-35 (1996).
14. El-Sadek, M., Abdel-Aziz, L., Abou-Kull, M., and Metwally, K. Synthesis and biological evaluation of novel heterocyclic derivatives of flurbiprofen.; *Zagazig J. Pharm. Sci.*, 7, 94-100 (1996).

Current International Collaborations:

1. Professor **Susan L. Bane** Research group; Department of Chemistry, State University of New York, Binghamton, NY, USA. Research Project title: Design and synthesis of 3-aryl-pyrimidino[4,5-c]quinolines as potential antitumour agents. Manuscript preparation is in progress.
2. Professor **Dimitris Kletsas** Research group; laboratory of cell Proliferation and Aging, Institute of Biology, national Centre of scientific research "Demokritos", Athens, Greece. Research project title: design and synthesis of novel 3-aminopyrimidino[4,5-c]quinolines as potential antitumour agents.
3. Professor **Federico Da Settimo** research group; Department of Pharmaceutical Sciences, University of Pisa, Pisa, Italy. Research project title: Design and synthesis of novel potent and selective aldose reductase inhibitors as potential therapeutic candidates for diabetic complications.
4. Professor **Paolo La Colla** research group; Dipartimento Di Biologia Sperimentale, Universita Di Cagliari, Monserrato, Italy. Research Project title: Cytotoxic and tubulin polymerization inhibitory activity of certain 5-arylamino-4H-1,2,4-triazoles.

*Research Scholar at Virginia
Commonwealth University*

Invited presentations:

*Azaspirodecanones:
structure-activity
relationships for 5-HT_{2A}
serotonin receptor binding.
Proceedings of the 75th
Annual Meeting of the
Virginia Academy of Science,
May 20-23, 1997, Virginia
Polytech Institute and State
University, Blacksburg,
Virginia, USA.*

*New safer anticonvulsants.
Proceedings of the 7th Saudi
International Pharmaceutical
Conference, March 20, 2007,
Rhiadh, KSA.*

*Drug discovery: serendipity
and nature inspiration.
Gwatha Hall, King Faisal
University, Hufof city, Al-
Ahsa.*

If your plan is for 1 year, plant rice. If your plan is for 10 years, plant trees. If you plan is for 100 years, educate children.



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Reviewer:

1. "Journal of Pharmacy and Pharmaceutical Sciences" Canada.
2. "Journal of Molecular Structure" Elsevier.
3. "The International Medical Journal" Faculty of Medicine, Malaysia.
4. Bulletin of the Chemical Society of Ethiopia"
5. Journal of Microencapsulation" University of London, London, U.K.
6. "Pakistan Journal of Zoology" School of Biological Sciences, Pakistan.
7. "Canadian Journal of Pure and Applied Sciences", Canada.
8. "Pakistan Journal of Pharmaceutical Sciences" Pakistan.
9. "Journal of Chemical Society of Pakistan" Pakistan.
10. J. of Ethnopharmacology Elsevier's.
11. J. Pharm. Biol., Elsevier's

4. Dr. Tanveer A. Khan

B-Pharm; M-Pharm; University of Karachi, Ph.D. USM, Malaysia.

ASSOCIATE PROFESSOR, PHARMACEUTICS

PROFESSIONAL EXPERIENCES: About 15 years of Professional experiences in academia, government sector, and pharmaceutical industry.

RESEARCH AND TEACHING INTEREST :

1. Drug Formulation and Dosage Forms Design/Pharmaceutical Preparations.
2. Physical Pharmaceutics, and Biopharmaceutics.
3. Novel Drug Delivery Systems (Transdermal drug delivery, Liposomes, microspheres).
4. Development of Bioactive Wound Dressings (Chitosan: A Biopolymer).
5. Formulation of softgels from Halal Source.

LIST OF PUBLICATIONS:

1. Khan, Tanveer, A, Peh, KK, and Khurshid A (2009). Investigation of Zeta Potential, Peel Adhesion, Swelling, Permeability and Tensile properties of Chitosan Films prepared for wound healing. Canadian Journal of pure and applied sciences. Vol. 3, No.2, pp. 801-807. (http://cjpas.net/previous_issue.pdf)
2. Khan Tanveer A, A. B. M. Helal Uddin, and Abbas, S. A. (2009). High Performance Liquid Chromatographic Method Development and Validation of Cimetidine in Human Plasma for Bioequivalence Study. J Pharm Pharmaceut Sci. Vol 12, No. 2, 80s (<http://ejournals.library.ualberta.ca/index.php/JPPS/issue/view/445>)
3. Khurshid, A, and Khan, Tanveer, A (2009). Relationship between the Socio-demographic factors, and the clinicopathological Characteristics with the intrinsic biomarkers of Breast Carcinoma of women in Pahang, Malaysia. Canadian Journal of pure and applied sciences. Vol. 3, No.1, pp. 637-647. (http://cjpas.net/previous_issue.pdf).
4. A. B. M. Helal Uddin, S. A. Abbas and Tanveer A. Khan (2009). Comparative Sample Preparation Study And Optimisation Of Chromatographic Parameters For The Detection Of Ranitidine In Human Plasma Using HPLC With UV Detector. 23rd Malaysian Society of Pharmacology and Physiology Scientific Meeting. Kuala Lumpur, Malaysia.
5. A. B. M. Helal Uddin, S. A. Abbas and Tanveer A. Khan. (2008). High Performance Liquid Chromatography Method for the Detection of Cimetidine in Human Plasma. 22nd Malaysian Society of Pharmacology & Physiology Scientific Meeting. Malaysia.
6. Khan, Tanveer, A, K.K Peh, and Kausar, A (2007). An investigation of the Bioadhesion, Physical and Mechanical properties of chitosan film as dressing for wound. Pharmaceutical Sciences World Congress 2007, Amsterdam, Netherlands.

7. Khan, Tanveer. A, K.K Peh, and Rahman bin Baco. (2006). A Preliminary Investigation on the Preparation and Physical Properties of Chitosan Lotions. 6th MPS Pharmacy Scientific Conference 2006, Malaysian Pharmaceutical Society, Malaysia.
8. Khan, Tanveer. A. and Peh, K.K. (2003). Influence of Chitosan Molecular Weight on Its Physical Properties. The International Medical Journal. 2(1), B4.
9. Khan, Tanveer. A. and Peh, K.K. (2003). A preliminary investigation of chitosan film as dressing for punch biopsy wounds in rats. J Pharm Pharmaceut Sci, 6(1), 20-26 (<http://www.ualberta.ca/~csp/Journals/JPPS.htm>)
10. Khan, Tanveer. A., Peh, K.K. and Ch'ng, H.S. (2002). Reporting degree of deacetylation values of chitosan: the influence of analytical methods. J Pharm Pharmaceut Sci, 5(3), 205-212. (<http://www.ualberta.ca/~csp/Journals/JPPS.htm>)
11. Khan, T. A, Tanveer. A., Peh, K. K. and Ch'ng, H. S. (2001). Influence of Different Molecular Weights of Chitosan on Physical and Mechanical Properties of Transdermal Films. Asia Pacific Journal of Pharmacology, 15 (Suppl. 1), S21.
12. Khan, Tanveer. A., Peh, K. K. and Ch'ng, H. S. (2000). Mechanical, Bioadhesive Strength and Biological Evaluations of Chitosan films for Wound Dressing. J Pharm Pharmaceut Sci, 3(3), 303-311. (<http://www.ualberta.ca/~csp/Journals/JPPS.htm>) Cited : 85 times.
13. Khan, Tanveer. A. and Ch'ng, H. S. (2000). The Development of a suitable chitosan membrane as transdermal drug delivery system. Asia Pacific Journal of Pharmacology, 14 (Suppl. 2), S55.

AWARDS/ACHIEVEMENTS AT THE NATIONAL & INTERNATIONAL LEVEL

1. Winner of the Silver Medal (Diploma: Brussels Eureka! and Innova + Energy), at The World Exhibition of Invention, Research and Industrial Innovation, organized and awarded by the Belgian and International Trade Fair for Technological Innovation, Brussels, Belgium, 22-25 Nov, 2007.
2. Recipient of the Certificate of Award (Bronze Medal) at the International Exposition of Research and Inventions of Institutions of Higher Learning 2007. Ministry of Higher Education Malaysia and Universiti Sains Malaysia. Kuala Lumpur, Malaysia. 10-12 August, 2007.
3. Recipient of the International Travel Grant Award for Young Scientists "PSWC_2007 Travel Grant Award", Board of Pharmaceutical Sciences, International Pharmaceutical Federation (FIP), for Pharmaceutical Sciences World Congress_2007 (PSWC_2007), Amsterdam, The Netherlands, 22-25 April, 2007.

Community Involvement (Professional Society/Club etc):

Member: Commonwealth Pharmaceutical Association (CPA), London, U.K.

Member: Pharmacy Council of Sind, Karachi.

Pakistan.

Member: Pakistan Pharmacy Council, Islamabad,

Pakistan.

Member: Canadian Society for Pharmaceutical Sciences, Alberta, Canada.

Member, Malaysian Pharmaceutical Society, Kuala Lumpur. Malaysia.

4. Winner of the "Most Committed Lecturer Award" during the 2nd Annual Grand Dinner_2007, Faculty of Pharmacy, International Islamic University Malaysia, Kuantan, Malaysia, .

5. Winner of the "IIUM Quality Research Award_2007, during the Annual Quality Day_2007 of the International Islamic University Malaysia, Kuala Lumpur, Malaysia, 2nd March, 2007.

When you play, play hard; when you work, don't play at all.



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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-

Reviewer for
*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

5. 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. 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.
2. Usha GK, Balakeshwa. R, N Sree Harsha, Rajarajan and K. Ramesh. A Re-
view of Pharmacoepidemiological Methods: Intensive hospital monitoring
and medical record linkage, Pharmacology online 1, 2010, 1145.
3. Shantha Kumar V, Shobha Rani R. H and N. Sree Harsha. High-
Performance Liquid Chromatographic Determination of Plasma Theophyl-
line Levels in the Presence of Caffeine and Dietary Xanthine Metabolites,
Archives of Pharmacal Research, Year 2010, Volume 2 (1), 274.
4. 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.
5. K.Mahalingan, S.Rajarajan, Benn Baby, Sree Harsha, Formulation and
Evaluation of Clarithromycin Extended Release Tablets, Journal of Pharma-
ceutical Sciences and Research, 2009, Vol 1(3), Pages 97-100.
7. N.Sree Harsha, S.Rajarajan, Chandramouli.R, Srinivasan.S and Shobha rani.
Preparation and Evaluation of Gentamicin Biodegradable Polymeric micro-
spheres, Archives of Pharmaceutical Science and Research, 2009, 1,81 -86.
8. Sree Harsha, Chandra mouli and Shobha rani. Ofloxacin targeting to lungs
by way of microspheres, International Journal of Pharmaceutics,2009, Vol-
ume 380, Pages 127 – 132,

9. 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
10. 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.
11. S Bhaskaran, Sree Harsha. Hydrodynamic Oral Floating Controlled Delivery Of Diltiazem Hydrochloride, *Eastern Pharmacist*, 2001, Volume 44(525), Pages 105-108.
12. 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.

Presentations :

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". 4th 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", 4th 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. 53rd Indian Pharmaceutical Congress, DELHI, INDIA, 2001.
8. Preparation of self-cross linked gelatin microspheres. 52nd Indian Pharmaceutical Congress. HYDERABAD, INDIA, 2000.
9. Gelatin as a hydrogel for controlled release. 51st Indian Pharmaceutical Congress, INDORE, INDIA, 1999.

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)

6. 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 : 13 years of experience in teaching pharmaceutical chemistry, medicinal chemistry and analytical chemistry.

RESEARCH INTEREST :

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

LIST OF PUBLICATIONS:

1. Mahesh Attimarad. 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.
2. 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.
3. Mahesh Attimarad. Rapid RP HPLC Method For Quantitative Determination Of Lornoxicam In Tablets. *J. Basic Clin Pharm*, 2010, 1(2), 115-118
4. Mahesh Attimarad, Liquid Chromatographic Determination of Flavoxate HCl In Pharmaceutical Formulation. *J. Young Pharmacist*, 2010, 2(3), 280-283.
5. 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,
6. 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.
7. Mahesh Attimarad and S. Mohan "An Expeditious Synthesis of Methyl 5-(2-Amino 4-Arylthiazolyl) acetates using Microwave Irradiation" *Journal of the Indian Chemical Society*, 2006, 83(12), 1276-1279.
8. Mahesh Attimarad and S. Mohan, "Microwave assisted synthesis of ethyl 2,4, -di substituted thiazoe-5 acetates for their antioxidant activity, *Asian Journal of Chemistry*, 2005, 17(2), 991-995.



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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.

Microwave synthesizer.

9. Mahesh Attimarad and S. Mohan "Synthesis of Hydroxy benzothiophene/naphthalene carboxylic acids as potent NSAIDs.", Indian Journal of Heterocyclic Chemistry, 2005, 14, 285-288.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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. **Mahesh Attimarad**, 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**, held during 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 antihyperglycemic 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
Bioorganic and Medicinal chemistry and Indian Journal of Chemistry, Section B J of AOAC International, Journal of Young pharmacists.



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***Reviewer :** Journal of Ethno-
pharmacology (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 Pharmacology
Asian journal of Biotechnology
Journal of Pharmacy and Toxi-
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7. 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. **Mueen Ahmed KK**, Sanjib Bhattacharya, Subhankar Chakraborty. Free radicals and Cardiovascular diseases. Free radicals and Antioxidants. 2011; 1(1): 17-22.
2. 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.
3. **Mueen Ahmed KK**, Madkor H, Attimarad M, Khan TM. Plant metabolomics-A novel method in phytochemical analysis. Pharmaceutical Methods. 2010;1(1):65-65.
4. Bhattacharya S, **Mueen Ahmed KK**, Kundoor V. Do medicinal plants possess significant activities? Journal of Pharmaceutical Negative Results. 2010;1(1):27-27.
5. 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.
6. 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.
7. 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.
8. **Mueen Ahmed KK**. Systematic reviews in pharmacy-A vision forward. Journal of Young Pharmacists. 2009;1(3):191-191.
9. Kumar N, Khanam S, **Mueen Ahmed KK**, Dang R. Evaluation of some Indian medicinal plants for antibacterial activity. Biomed. 2007;2(2):206-211.
10. 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.

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

11. Kumar N, **Mueen Ahmed KK**, Dang R, Sultana R. Antibacterial and Antioxidant Activity of Propolis from Gujarat zone. *Biomed.* 2008;2(4):390-395.
12. 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.
13. **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.
14. Nilesh K, Raman D, Kuntal D, **Mueen Ahmed K.K.** Unani system of Medicine- Introduction and Challenges. *Ethnobotanical leaflet.* 2009;(13):269-272.
15. 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.
16. **Mueen Ahmed K.K.**, B.G.Shivananda and T.N.Shivananda,. Literature search in Medicinal Plant Research. *BIOMED.*2006;1(3): 270.
17. Vanaja. K, **Mueen Ahmed K K**, Hemanth P. Joshi, Shobha Rani, Sarsija Suresh. In vitro Drug tools in ADME/Tox screening of drugs, *Pharma Review.* 2006. 61-68
18. **Mueen Ahmed KK**. HPTLC-An Overview. *Pharmacognosy Magazine.* 2005;1(3):114-115.
19. **Mueen Ahmed K K.**, A.C.Rana and V.K.Dixit. Web Resources in Phytopharmacognosy, *Indian J. Natural Products*, 2004;20: 16-32.
20. **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.
21. **Mueen Ahmed KK**, Rana AC, Dixit VK. Free radical scavenging activity of Calotropis species. *INDIAN DRUGS-BOMBAY-*. 2003;40(11):654-655.
22. **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.
23. **Mueen Ahmed KK**, Rana AC, Dixit VK. Studies on calotropis species for antimycardial 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"

Editorial Board Member

Pharmanext, since 2008
Asian Journal of Clinical Pharmacy, since 2007.
APTI bulletin, since 2003.
Asian Journal of Pharmaceutical and Clinical Research
Pakistan Journal of Biological 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 Unievrnsity 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.



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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 3rd Biennial Conference on Pharmacology & Therapeutics. January 2005. Karachi –Pakistan.

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

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 3rd 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 3rd 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.

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
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istry, Berlin .*

**Supervision of M.Sc. &
Ph.D. Theses**
*M.Pharm Sc : 11
Ph. D : 6*

**Review article : Chemistry and
Biological Evaluation of Tannins**

9. Dr . Fatma Abdel Kader Mohamed Moharram

B. Pharm M. Pharm; & Ph.D. Cairo University, Egypt

PROFESSOR, PHARMACOGNOSY

TEACHING EXPERIENCE : Pharmacogony, Phytochemistry, Chromatography, Herbal medicine, Biosynthesis and Spectroscopic methods of structural elucidation, including UV, MS, NMR, IR and other instrumental methods of analysis courses at the graduate and undergraduate levels as well as Learning Skills and Introduction to pharmacy profession to undergraduate levels

RESEARCH INTEREST :

1. Isolation and structural elucidation of the natural products (tannins, flavonoids, lignans...) by the use of different chromatographic and spectroscopic techniques.
2. Examination of some biological activities (e.g. Antitumor, Antioxidant, Hepatoprotective, antidiabetic or Antiinflammatory, ...) of the investigated extracts or pure isolates.

LIST OF PUBLICATIONS:

1. Aboutabl E.A., Abdel-Alim, M. A., El-Tohamy, S. F. and Moharram, F.A, A comparative ' macro- and micromorphological study of the leaves of five Melaleuca species grown in Egypt. *Az. J. Nat. Prod.* 5, 1-13 (1990).
2. Aboutabl, E.A, Abdelhakim, G and Moharram, F.A. Study of some pharmacodynamic actions of certain Melaleuca species grown in Egypt. *Phytotherby Res.* 10, 345-347 (1996).
3. Aboutabl, E.A, Soliman, H, S, M and Moharram, F. A melacoside A, a novel monoterpene glucoside from Melaleuca quinquenervia. *Al-Azhar J. Nat. Prod.* 23, 110-115, (1999).
4. Abdel-Alim, M. A., Moharram, F. A., Aboutabl, E. A. and El-Tohamy S.F. Constituents of Melaleuca quinquenervia grown in Egypt. *Journal of Herbs, Spices & Medial Plants* 5, 29-37 (1997).
5. El-sayed, N. H., Aboutabl, E. A., Moharram, F. A., Abdel-Alim, M. A. and Mabry. T. J., Phenolic and flavonoids of Cordia macleodii. *Rev. Latinoamer. Quim.* 26, 30-5 (1997).
6. Aboutabl, E. A., Abdel-Alim, M.A. Samir, A.F., Moharram F.M. and El-sayed N.H. Toxicological effects of Cordia macleodii. *Bull. Fac. Pharm. Cairo. Univ.* 33(3), 33-8 (1995)

7. El-Toumy, S. S., Marzouk, M. S. A., Moharram, F. A., Aboutabl, E. A. Flavonoids of Melaleuca quinquenervia. Pharmazie 56(1), 94-5 (2000).
8. Shalaby, N. M. M., Moharram, F. A., El-Toumy, S. A. A., Marzouk, M. S. A. and Ahmed, A. A. E., Phytochemical and pharmacological studies of Mentha pulegium L. Bull. Fac. Pharm. Cairo Univ. 38(2), 143 - 51 (2000).
9. Siham, M. Elshenawy, Sawsan S. Mohmoud, F. A. Moharram, M.R, El-ginidi and A.M, Kamal. J. Egypt. Coc. Toxicol., Special issue Suppl.To, vol, 38,1-12 (2002).
10. Mahmoud, I., Moharram, F. A., Marzouk, M. S. A., Soliman, H. S. M. and El-Dib, R. A., Two new flavonol glycosides from leaves of Koelreuteria paniculata. Pharmazie 56(7), 580 -2 (2001).
11. Mahmoud, I. I., Marzouk, M. S. A., Moharram, F. A., El-Gindi, M. R. and Hassan, A. M. K., New Acylated Flavonol Glycosides from Eugenia jambolana Leaves. Phytochemistry 58, 1239-44 (2001).
12. Marzouk, M. S. A., El-Toumy, Moharram, F. A , Shalaby, N. M. and Ahmed, A. A. Pharmacologically active ellagitannins from Terminalia myriocarpa, Planta Medica 68(6), 523-27 (2002).
13. Mahmoud, I. I., Moharram, F. A., Marzouk, M. S. A., Linscheid, M. W. and Saleh, M. I., Polyphenolic constituents of Callistemon lanceolatus leaves. Pharmazie 57(7), 494-6 (2002).
14. Mahmoud, I. I., Moharram, F. A., El-Gindi, M. R., Marzouk, M. S. A., Nolte, J. and Hassan, A. M. K., Essential oils from two species of Eugenia. Bull. Fac. Pharm. Cairo Univ. 40(1), 123-27 (2002).
15. Moharram, F.A., Mahmoud, I. I., Marzouk, M. S. A., Moharram, F. A., Nolte, J., Fobbe, R. and Saleh, M. I., Chemical composition of the Egyptian Callistemon lanceolatus DC. and Callistemon viminalis (Gaertner) Loudan oils. Bull. Fac. Pharm. Cairo Univ. 40(1), 119-22 (2002).
16. Moharram, F. A., Abdel Aty, M. A. Phytochemical and biological investigation of Tecoma capensis leaves. Az.J. Pharm. Sci. 28, 244-57 (2001).
17. Seham AE, Sawsan SM, Fatma AM, Mohamed SAM and Mohamed IM, Evaluation of some pharmacological effects of Callistemon lanceolatus and viminalis extracts, J. Union Arab Biol. Cairo 17(A), 17-28 (2002).
18. Mahmoud, I. I., Soliman, H. S. M., Moharram, F. A. and El-Dib, R.A., Macro- micromorphological and preliminary, Phytochemical study of young stem and leaves of Koelreuteria paniculata Laxm. and Koelreuteria elegans (Seem) A.C. Sm. Az.J. Pharm. Sci. 27, 41-55 (2001).

Training Courses.

Training course in Nuclear magnetic resonances (NMR) in Faculty of Sciences Cairo Univ. and National Research Centre.

Training courses on electronic microscope in Faculty of Sciences, Ain Schamis Univ.

Training courses in Faculty and leadership Development Project Helwan Univ

Chairing in QUIP and TEMPS Project for development of fac-

Supervision of M.Sc. & Ph.D. thesis Fields of these theses are:

Macro and micromorphological study of medicinal plants.

*Phytochemistry
Pharmacology of natural products and their extracts*

Composition of plant volatile oils

9. Dr. Fatma Abdel Kader Mohamed Moharram

19. Mahmoud, I. I., El- Gindi, M. R, Moharram, F. A. and Hassan, A. M. K. Macro- micromorphological stem and leaves of *Eugenia jambolana*. and *Eugenia supraxillaris*. *Az.J. Pharm. Sci.* 27, 255-56(2001).
20. Moharram, F. A., Marzouk, M. S., El-Toumy, S. A. A., Ahmed, A. A. E., Aboutabl, E A., Polyphenols of *Melaleuca quinquenervia* leaves-pharmacological studies of grandinin. *Phytother. Res.*, 17(7), 767-73 (2003).
21. El-dib, R. A., Kaloga, M., Mahmoud, I. I., Soliman, S. M. , Moharram, F. A., and Kolodziej, H., Sablacurin A and B, two 19-nor-4,4- Seco- lanostane- type triterpenoids from *Sabal causiarum* and *Sabal blackburniana*, respectively. *Phytochemistry* 652780-1153- 57 (2004)
22. Mona, A. M., Marzouk, M. S. A., Moharram, F. A., Mortada, M. E. and Ayman, R. B., Phytochemical constituents and hepatoprotective activity of *Viburnum tinus*. *Phytochemistry* 66(23), 2780-86 (2005).
23. Marzouk, M. S. A., Moharram, F. A., Haggag, E. G., Ibrahim, M. T. and Badary, O. A., Antioxidant flavonol glycosides from *Schinus molle*. *Phytother. Res.* 20, 200-205 (2006).
24. Moharram, F. A., Marzouk, M. S. A., Ibrahim, M. T. and Mabry, T. J., Antioxidant galloylated flavonol glycosides from *Calliandra haematocephala*. *Nat. Prod. Res.* 20(10), 927-34 (2006).
25. Moharram, F. A., Mahmoud, I. I., Madeha, R. M., and Sabry, S., Polyphenoli profile and Biological study of *Salvia fruticosa*. *Nat. Prod. Comm.*, 1,(9)745 (2006).
26. Marzouk MSA, Moharram, F. A., Mohamed MA, Gamal-Eldeen AM, Aboutabl EA. Anti- cancer and Antioxidant tannins from *Pimenta dioica*. *Leaves Z. Naturforsch.*62c, 526-536, (2007).
27. Moharram, F. A., Marzouk MSA, A Novel Pheylethanoid Dimer from *Jacaranda mimosaeifolia*. *Leaves Z. Naturforsch.*62b (9), 1213-1220 (2007).
28. Marzouk MSA, Moharram, F. A., Mohamed MA, Aboutabl EA. Flavonoids and Triterpenoid Saponins from *Pimenta dioica*. *Nat. Prod. Comm.*, 2,(9), 895-900, (2007).
29. Moharram, F. A., El-Shennawy, S. M. Antinociceptive and antiinflammatory steroidal saponins from *Dracaena ombet*. *Planta medica.* 73. 1101-1106, (2007).
30. Magda T. Ibrahim, Fatma Moharram A., Mohamed S. A. Marzouk, Madeha Rabee and Adawia M. Kitaz. *Bull.Fac. Pharm. Cairo Univ.*, 45 (1) 161-169, (2007).
31. Fatma Moharram. Hydrolysable Tannins and related Phenolic Acids from the Pericarp of *Punica grantum* var *nana* (L.) *Pres. Az journal of natural products* Vol 10. 2006.

32. El Dib A R, Moharram-- FA, Marzouk MS, Abo Elyazed HA and Nolte J. Pharmacognostical study of Feijoa sellowiana O. Berg cultivated in Egypt Bull.Fac. Pharm. Cairo Univ., 46 (1) 161-169, (2008).
33. Siham M. El-Shenawy, Mohamed S. Marzouk, Rabab A. El Dib, Heba E. Abo Elyazed, Nermeen M. Shaffied, Fatma A. Moharram, Polyphenols and biological activities of Feijoa sellowiana leaves and twigs. Rev. Latinoamer. Quím. 104-120, 36(3) 2008.
34. Mohamed S. Marzouk, Fatma A. Moharram, Rabab A. El Dib, Siham M. El-Shenawy and Ahmed F. Tawfike. Polyphenolic profile and bioactivity study of Oenothera speciosa Nutt. Aerial Parts. Molecules 14, 1456-1467; (2009).
35. Howaida I. Abd-Alla, Fatma A. Moharram, Ahmed H. Gaara, and Mounir M. El-Safty Phytoconstituents and Immunomodulatory Activity of Jatropha curcas L. Leaves on Humoral and Cell-Mediated Immune Response in Chicks. Z. Naturforsch.64C (9), 1213-1220 (2009).
36. El Dib A R , Marzouk MS, Fatma A. Moharram, Siham M. El-Shenawy, Rania M. Abd Elazeem Chemical and biological investigation of Calothamnus Quadrifidus R.Br Bull.Fac. Pharm. Cairo Univ., 47 (1) 161-169, (2009).

Participation in International Conferences, Workshops & Meetings

1. Marzouk, M. S. A., Shalaby, N. M. M., El-Toumy, S. A. A., Moharram, F. A. and Ahmed A. E., Polyphenols profile and pharmacological study of Mentha pulegium. 37th. IUPAC Congress/27, Berlin-Germany, Aug. 14-19, App-1-042, 314 (1999).
2. S. A. A. El-Toumy, S. E. A. Aboutabl, M. S. A. Marzouk, F. A. Moharram, A. A. E. Ahmed, Flavonoid glycosides and a novel flavone glucuronide from Melaleuca quinquenervia (Clav.) S.T. Blake. 37th. IUPAC Congress/27 Berlin-Germany, Aug. 14-19, App-1-038, 311 (1999).
3. F. A. Moharram, I. Mahmoud, M. S. A. Marzouk, H. S. M. Soliman, R. A. El-Dib, Two new flavonoids from Koeleria paniculata Laxm. XXth International Conference on Polyphenols, Freising-Weihenstephan, Germany, 10-15 Sep., 1, 203 (2000).
4. M. S. A. Marzouk, S. A. A. El-Toumy, F. A. Moharram, N. M. M. Shalaby, A new polyphenol carboxylic acid ester from Terminalia myrocarpia Heurck leaves. XXth International Conference on Polyphenols, Freising-Weihenstephan, Germany, 10-15 Sep., 1, 201 (2000).
5. Ibrahim I. M, Fatma A. Moharram, M S. A. Marzouk, Mohd R. El-Gindi, and Amel M. Kamal, Polyphenols from Eugenia jambolana LAM. 38th IUPAC Conference, Australia, 2001
6. Ibrahim I. M Mohamed S. A. Marzouk, Fatma A. Moharram, I. S. Mohamed, Polyphenolic profile of Callistemon lanceolatus DC. 38th IUPAC Conference, Australia, 2001.
7. Fatma A. Moharram, Mohamed S. A. Marzouk, Sayed A. A. El-Toumy, Amany A. A. Eassa and El-Sayed A. Aboutabl, Polyphenols of Melaleuca quinquenervia Leaves-Pharmacological Studies of Grandinin, 38th IUPAC Conference, Australia, 2001.
8. 4th Conference of pharmaceutical sciences, 6-7 March, 2004, Faculty of Pharmacy, Assuit University, Assuit, Egypt (Three abstracts in poster presentation).
9. 5th Conference of pharmaceutical sciences, 7-8 March, 2006, Faculty of Pharmacy, Assuit University, Assuit, Egypt (Three abstracts in poster presentation).
10. 55th International Congress and Annual Meeting of the Society for Medicinal Plant Research September 2-6, Graz, Austria (2007).

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10.Dr. Safaa Shafik Toubar

B. Pharm, M Pharm, Mansoura Uni, Egypt, Ph.D. Mansoura University, with Glasgow University (UK)

ASSOCIATE PROFESSOR ANALYTICAL CHEMISTRY

TEACHING EXPERIENCE : 32 years teaching experience

RESEARCH INTEREST :

Development of new Analytical methods for estimation of drug in bulk and pharmaceutical formulations. Drug metabolites, Environmental analysis.

LIST OF PUBLICATIONS:

1. I.H.Habib , S.A Weshahy, S.Toubar , M.M.A. El-Alamin Stripping Voltammetric Determination of Valsartan in Bulk and Pharmaceutical Products. *Die Pharmazie*, 63(2008) .
2. I.H.Habib , S.A Weshahy, S.Toubar , M.M.A. El Alamin, Stripping Voltammetric Determination of Losartan in Bulk and Pharmaceutical Product *Portugaliae Electrochimica Acta*, Under Press
3. Mohamed F.EL-Tarras Mohamed Rizk .Safaa S.Toubar,Dalia M.Abd EL-Wahab A Spectrofluorimetric method for determination of some β -agonist drugs using 9,10- dimethoxyanthracene-2-sulphonic acid sodium salt *Bull Fac. Pharm . Cairo Univ.*, 43(1) 181-187 (2005) .
4. Mohamed F.EL-Tarras Mohamed Rizk#.Safaa S.Toubar, Dalai M.Abd EL-Wahab Fluorimetric determination of some β -agonists using 2-cyanoacetamide. *Bull Fac Pharm . Cairo Univ.*, 43(1) 189-195 (2005) .
5. M. Rizk, S.S. Toubar , M.A. Sultan and S.H Asaad 2,3 -Dichloro-5,6-Dicyano-1,4-Benzoquinone as Redox Trirant *J.Saudi Chem .Soc .* , 7 (2) ,175-186 (2003) .
6. M. Rizk , S.S. Toubar , M.A. Sultan and S.H Asaad Ultraviolet Spectrophotometric Determination of some Primary Amines Containing Drugs as Tetracyanoethylene Charge- Transfer Complex .*Microchim Acta* , 143(4) , 281-285(2003) .
7. M.Rizk, S.Toubar, M.S.Abdel Mottaleb and H.I. Ali A Spectrophotometric Determination of Aminoglycoside Antibiotics Through Reaction of Their Rruhemann's Purple with Sodium Borohydride. *Bull Fac . Cairo Univ.*, 41 (2) 141-148 (2003) .

*There is no substitute for hard work.
Thomas Edison*

8. S.H Hilal, Y.EL-Shabrawy , L.A. carreira , S.W. Karickhoff , S.Toubar and M.Rizk Estimation of the Ionization pka of Pharmaceutical Substances Using the Company Program SPARC Talanta 42, 1849-1856(1996) .
9. M.I. Walash, M.Rizk, S.S Toubar , S.M Ahmed and N.A. Zakhari Tirimetric and Spectrophotometric Determination of some Phenthiazine Derivatives Using Chlorobenzotriazole Reagent . Bull. Fac. Pharm . Cairo Univ., 34(2) 71-75(1996) .
10. M .Rizk , Y.EL-Shabrawy , N.A. Zakhari , S.toubar and L.A.Spectroscopic Determination of Heparin Using Europium (III) as a Probe ion . Carreira Spectroscopic Lett., 28 (8) 1235-1249 (1995) .
11. M.Rizk , N.A. Zakhari, S.toubar and Y.EL-Shabrawy Spectrophotometric Determination of Aluminum and copper Ions Using Spadns . Microchim .Acta 118 , 239- 247(1995) .
12. L.A. Carreia, M.Rizk , Y.EL-Shabrawy , N.A. zakhari, and S .Toubar Europium (III) ion Probe Spectrofluorometric Determination of Diclofenac Sodim . J.Pharm .and Biomed Anal . 13 , 1331- 1337 (1995) .
13. M.Rizk, Y.EL-Shabrawy , N.A.zakhari , S.Toubar and L.A. carreria Fluorimetric Determination of Aminoglycoside antibiotics using Lanthanide Probe Ion Spectroscopy . Talanta 42, 1849-1856(1995) .
14. M.I.Walash, S.Toubar , S.M.Ahmed and N.A. zakhari Spectrophotometric Studies on Determination of some Cephalosporins and Amoxicillin with Chlorobenzotriazole and Sodium Hypochlorite Anal . Llett., 27 (13) 2499-2513 (1994)
15. C.J.W. Brooks. M.I. Walash, M.Rizk N.A.zakhari, S.Toubar and D.J. Watson Assay of Certain oral contraceptive formulations by Gas chromatography – Mass Spectrometry Selected Ion Monitoring . Acta .Pharm .Hung., 63,19-27(1993) .
16. M.Rizk , N.A. Zakhari, S.toubar and Y.EL-Shabrawy Sensitive Colorimetric Determination of Copper (II) Ions in some Chemicals and Multivitamins. Acta pharm . Hung . 62, 158-166 (1992) .
17. J.Barek, V.Mejstrik, S.toubar and J.Zima The polarographic and Voltametric Determination of 1-(4' - Carbamoylphenyl) -3,3-Dimethyltriazine . Collect. Czech . Chem. . Commun.. 57, 1230-1236(1992)
18. N.A. Zakhari M.I..Walash, M.Rizk, S.toubar, C.J.W.Brooks and J.W. Cole Gas Chromatographic Assay of methyltestosterone in tablets. J.pharm. Biomed. Anal., 9 (9), 705-709 (1991) .
19. J.Barek, S.Toubar and J.Zima .Polarographic and Voltametric Determination of 1- (2 Carbamoylphenyl) -3,3-Dimethyltriazine .Collect.

Training :

UNALCO course arranged by Analytical chemistry department, Charles's University (Prague) in Electrochemistry for 9 months including practical research, 1989/1990

Completed 3 months training on HPLC & electrochemical detection technique at Analytical chemistry department, Charles's University (Prague), 2007

Attained 3Days Gas Chromatography Training Course held by El Saady Scientific Services Co, Cairo, July 2006 & July 2008

He who never made a mistake never made a discovery.

10.Dr. Safaa Shafik Toubar

20. C.J.W. Books, M.I. Walsh, N.A. Zakhari, M.Rizk, S.toubar and J.W.Cole. Dimethylethyl- and Dimethylisopropyl silly Ethers for the Characterization of Hydroxysteroids by Gas – Chromatography – Mass Spectrometry. Mans .J.pharm .sci. 7(1), 87-119 (1991).
21. M.Rizk, N.A.Zakhari, M.I.Walash, S.toubar, C.J.W.Brooks and R.Anderson. Gas Chromatography and Mass Spectrometry of Dimethylethylsilyl Ether Derivatives of Norethisterone metabolites in plasma Acta pharm .Nord ., 3,205-210 (1991) .
22. C.J. W. Brooks, J.W. Cole, m.Rizk, N.A. Zakhari, M.I.Walash, S.toubar Gas Chromatographic Determination of Oral Contraceptive Preparations Alex .J .Pharm .Sci., 5(2), 205-208 (1991)
23. M.I.walash, N. Zakhari, M. Rizk, S. Toubar U.V Spectrophotometric Determination of 4-3- ketosteroids using Semicarbazide IL.pharmaco .Ed .Pr. (41) .Fasc ., 3, 81-90(1987) .
24. Walsh, m . I . , Rizk , m., Zakhari, N .A . and Toubar ,S. Colorimetric Determination of 17 a – Ethinyl Steroids Acta pharm. Fenn .93, 33- 38 (1984).
25. Walsh, m. I., Rizk, N.A, Zakhari, N .A. and Toubar, S. Spectrophotometric Determination of 4- 3- ketosteroids using Oxalyldihydrazide Anal . lett ., 17 (B9) , 817 -833 , (1984) .
26. M. Rizk, N.A. Zakhari, S.Toubar and M.I. Walsh Colorimetric Determination of certain corticosteroid acta pharm .fenn .93 , 129-134 (1984) .

There are two things to aim at in life: first, to get what you want; and, after that, to enjoy it. Only the wisest of mankind achieve the second.

11. 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
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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
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and Pharmacology
Journal of Young Pharma-
cists*

12. 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 60th 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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13. Dr. Sheeba Shafi

B. Sc, M. Sc, Ph.D, AMU, Aligarh, India

ASSISTANT PROFESSOR

TEACHING EXPERIENCE : 8 years of teaching experience, I am engaged in teaching general and organic chemistry and its application as a basis for the student of the medical science to the undergraduate and postgraduate students . I have a thorough understanding of human metabolism , which involves the knowledge at the molecular level.

RESEARCH INTEREST : Separate study of ^1H - ^1H NMR (Homonuclear cosy NMR spectroscopy) and ^1H - ^{13}C -NMR (Heteronuclear cosy NMR spectroscopy) for the elucidation of complex chemical compounds.

Study and interpretation of noble steroidal compounds with the help of two dimensional nucleomagnetic resonance (2D-NMR) spectroscopy

Synthesis, Chemical and spectral studies of steroidal oxathiolanes and spirothiazolidinones for configurational study.

Synthesis, Chemical and spectral studies of palladium catalysed coupling reactions of estradiol.

LIST OF PUBLICATIONS:

1. Sheeba Shafi & S.J.Rizvi.Elevation and depletion induced by cholesterol derivatives in the level of total lipids of albino rat brain Hamdard Medicus ,Vol.XLVIII (4), July-Sep,2005.
2. Sheeba Shafi ,Y.K.Agarwal and P.K.Verma,Infrared spectra of C6-spiro steroidal tetrazines, Ind.J.Phys,77B (2) ,207-213 (2003).
3. Sheeba Shafi & S.J.Rizvi, Estimation of gangliosides by cholesterol derivatives on cerebrum,cerebellum and brain stem of albino rats. Hamdard Medicus ,Vol.XLVI (3),July-sept -2003.
4. Sheeba Shafi , M.Ilyas& S.J.Rizvi, Changes in the Brain lipid level induced by different steroidal derivatives in the albino rats.Hamdard Medicus .Vol XLV (2) April-June -2002
5. Sheeba Shafi, M.Ilyas & S.J.Rizvi, The effect of Cholesterol derivatives on changes of gangliosides in the brain of Albino rats, Hamdard Medicus Vol XLV (1) Jan-March -2002.
6. Sheeba Shafi , M.Ilyas & S.J.Rizvi, Neurotoxicological effects of steroidal compounds in changes of cholesterol level on albino rats. Hamdard Medicus ,Vol XLV (4) October- December,2002.

7. Sheeba Shafi, J. Firoz, R. Gupta, 3b-Acetoxy-5 α -cholestane-6-one : A Steroids, Cryst. Res. Technol. Vol. 36 P. 215-221, 2001 ; Germany.
8. Sheeba Shafi, Rajnikant, V. K. Gupta, J. Firoz, R. Gupta, Crystal Structure of 6-Nitro-Cholest-5-ene. Cryst. Res. Technol. 36, P 471-476, 2001 ; Germany.
9. Sheeba Shafi, Rajnikant, V. K. Gupta, S. Hashmi, B. Varghese and Dinesh, Crystallographic investigations of 3b-acetoxy-5 α -Cholestane-6-one-semicarbazone : A steroids, Cryst. Res. Technol. 36, 1281-1288, 2001 ; Germany.
10. Sheeba Shafi, M. Salman Hashmi Intramolecular Schmidt reaction of steroidal Ketones. Ind. J. Chemistry Section B, page 87-88, 2001.
11. Sheeba Shafi, M. Ilyas & S. J. Rizvi, Steroidal derivatives induced changes in lipid peroxidation of different regions of rat brain. Hamdard Medicus Vol. XLIV (4) Oct-Dec, 2001.
12. Sheeba Shafi, Two dimensional NMR spectroscopy. Chemistry Education Review Vol. 15, No. 4, Page 29, April-June 2000.
13. Sheeba Shafi, I. H. Siddui, S. A. Ansari, Synthesis of steroidal spirothiazolidinones. J. Ind. Chem; Soc, Vol 77, Page 215-216, 2000
14. Sheeba Shafi, Suhail Ahmad & S. Hashmi, Photoadducts of unsaturated steroidal ketone with coumarins. Ind. Chem. Soc, Page 70-71 2000.
15. Sheeba Shafi, Suhail Ahmad, Photoadducts of steroidal dienone with coumarins. Ind. J. Chemistry Section B, Page 62-63. 2000.

PAPERS PRESENTED IN CONFERENCES

1. Sheeba Shafi, H. Ali, E. Vanlier, Palladium catalysed coupling reaction of Estradiol derivatives. International symposium on green chemistry, page 24, 10-13 Jan., 2001, Delhi.
2. Sheeba Shafi, Suhail Ahmad. Photoadduct and steroidal --unsaturated ketone with coumarins. 88th Indian Science Congress, New Delhi, 3-7 Jan., 2001
3. Sheeba Shafi, M. Salman Hashmi Synthesis of steroidal selenadiazoles. Indian council of chemists, page 29, 27-29th Nov. 2001 Shimoga Karnataka.
4. Sheeba Shafi¹, H. Ali², J. E. Van Lier² Role of Palladium as catalyst in the synthesis of benzofuran derivatives of estradiol analogue. Indo-Russian ILTP Seminar on trends in Chemical Sciences, Department of Chemistry, University of Delhi, Delhi., P. 24, 24-25th Jan. 2000.
5. Sheeba Shafi, Asif, S. J. Rizvi. Steroidal compounds induced alteration on lipid metabolism in different regions of rats brain. Fourth National Conference of Indian Society of Chemists and Biologists. C. D. R. I-Lucknow, U.P. Jan. 28-30, 2000.
6. Sheeba Shafi, S. J. Rizvi. Steroidal Compounds Induced alteration on lipid Metabolism in different regions of rat brain. 2nd Indian Agricultural Scientists and Farmers, Congress BRCC Allahabad. 19-20 Feb., 2000
7. Sheeba Shafi. 2D- NMR study of steroidal ketone and Mass spectral study of 3-Substituted Steroidal Diastereomeric C6-spiro Oxathiolanes IInd National Conference on Spectrophysics NCONS Chennai Tamilnadu, Aug., 2000.
8. Sheeba Shafi, Salman Hashmi. Intramolecular Schmidt reaction of steroidal ketones. Indian council of chemists, page 29, 27-29th Nov. 2000 Shimoga Karnataka.



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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 H₂O₂ on ischeamia-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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Membership:

1. *Member of the Egyptian Pharmacists' Organization, 1997, Egypt.*
2. *Member of Biochemistry Department, College of Pharmacy, Al-Azhar University, 1998, Assiut Branch, Assiut, Egypt.*
3. *Member of the Egyptian Society for Biochemistry & Molecular Biology, 2004, Egypt.*

Awards :

*B.Sc. "Excellent with Degree of honor" in May, 1997,
College of Pharmacy, AL-Azhar Univ., Assiut Egypt.*

2. Dr. Hafez R. Madkour

B. Sc, M. Sc & Ph. D Assiut University, Egypt

ASSISTANT PROFESSOR, MEDICAL AND CLINICAL BIOCHEMISTRY

TEACHING EXPERIENCE : 13 years of experience, teaching basic, medical and clinical biochemistry and molecular biology.

CURRENT PROJECTS & RESEARCH INTEREST :

1. Anti-angiogenic Activities of Some Saudi Medicinal Plants on Experimentally Induced Breast Cancer in Rats
2. Molecular biology: Proteins production, separation and purification, Gene therapy, Stem cells and their applications, Small interference RNA and their applications.
3. Possible treatment and finding of new diagnostic tools for diabetes mellitus.
4. Possible treatment and prevention of progress of chronic liver diseases including Chronic hepatitis, Liver cirrhosis, and hepatocellular carcinoma.
5. Possible treatment of male and female infertility.
6. Role of angiogenesis and apoptosis in pathogenesis of some chronic diseases.

LIST OF PUBLICATIONS:

1. Tahia Saleem, Nagla El-Meleg, Hafez Madkor, Martin L. Biniossek, Felix Kratz. et.al, Optimization of an albumin-binding prodrug of doxorubicin that is cleaved by prostate-specific antigen (PSA). Submitted for publication in Med. Chem. Letters (ACS) 1, 234-238, 2010.
2. 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.
3. Bakheet Elsadek, Ralph Graeser, Norbert Esser, Khalid Abu Ajaj, Tahia Saleem, Nagla El Melegy, Hafez Madkor, Felix. Development of a novel water-soluble prodrug of paclitaxel that is cleaved by prostate-specific antigen (PSA): In vitro and invivo evaluation. Accepted by European Journal of Cancer (EGC) BJN-2010-7963, 2010.
4. Hatem Zedan and Hafez R. H. Madkor, Serum and Lesional Human Leukocyt Elastase Levels and Disease Severity in Patients with Psoriasis. , Egypt. J. Derm. & Venereol. Vol. 28, No. 1 January 2008.

5. Mona F-El-Karn, Abdel-Raheim M. Meki and Hafez R. H. Madkor, Effect of Green Tea and Vitamin C on Rheumatoid Arthritis of Male Rat Induced with Collagen II. Bull Egypt. Soc. Physiol. Sci. 28 (1) 2008; 0842-1110.
6. Mohamed A. Amin, Ihab T. Abdel-Raheem and Hafez R. Madkor, Wound healing and Anti-inflammatory activities of Bee Venom-Chitosan blend films. . Egypt. J. Drug Del. Sci. Tech., 18 (6) 424-430- 2008.
7. Ramadan A. M. Hemeida, Hafez R. H. Madkor, and Ihab T. Abdel-Raheem, Melatonin and N-acetyl cystein protect rats against Carbon tetrachloride-induced acute liver damage. Assiut Med. J. Vol. (31), No. (3), September 2007.
8. Hatem Zedan, Dalia Abd El-Aziz, Eman RM Hofny, Ramadan Saleh, Hafez R. H. Madkor, and Abdul-Halim A Abdul Halim . Oxidative Stress and Interlukin-1 Beta in Serum and Skin Lesions of Patients with Generalized Vitiligo. Egypt. J. Derm. & Venereol. Vol. 27, NO. 2 May, 2007.
9. Hatem Zedan, Hafez R. H. Madkor, Heba A Abd El-Hafeez, and Gamal AA Askar, Interferon Gamma, Immunoglobulin-E and Vascular Endothelial Growth Factor in Children with Papular urticaria. Journal of Pan-Arab League of Dermatologists, Vol. 18, NO. 3, 2007.
10. Hatem Zedan, Hesham A. Abd-El-bast, Alaa A Abd-Elsayed Mona F El-Karn and Hafez R. H. Madkor, Lesional Skin Vascular Endothelial Growth Factor Levels Correlate With The Clinical Severity in Patients With Cement Allergic Contact Dermatitis. Assiut Med. J. Vol. (31), No. (3) (Suppl.) September 2007.
11. H. R. . Madkor, R. T. El-Sokkary, A. M. Meki and A. Abdul Halim, Levels of Endostatin And Some Angiogenic Indices In Both Sera And Pleural Fluids Of Patients With Non Small cell Lung Cancer. The Frist Congress of Biochemistry, December 21-23,2005 and AAMJ, Vol. 4 N. 2 April, 2006.
12. H. R. Madkor, H. A. Hassan, S. M. Abdul Ghany, A. M. Meki and A. M. Faghaly, Levels of Some Proangiogenic and Antiangiogenic Indices in Patients with Chronic Liver Diseases. . The Frist Congress of Biochemistry, Department of Biochemistry, Assiut University, Assiut, Egypt, December 21-23,2005.
13. H. R. Madkor, A. M. EL-Nwehy, A. M. Meki and S. A. Mohamed, Serum leptin, insulin and insulin like growth factor-1 (IGF-1) levels in obese and non obese women with polycystic ovary syndrome (PCOS) The Egyptian Journal of biochemistry and molecular Biology: 20:2: 85-103, 2002.

Papers Submitted for reviewing: (In process)

1. Endothelial injury and distribution of serum lipids and lipoproteins in children with b thalassemia
2. Serum and placental tissues Levels of Interleukin-1beta and in women with preeclampsia.

A Reviewer for
Scientific journal international (SJI)
Academic Journal For Clinical Reviews & Opinions
1st Scientific Conference for Students of Higher Education, Riyadh, KSA, 15-18/3/1431 H
An Research Projects Evaluator for: King Abdul-Aziz City for Science and Technology (KACST).

It is easier to build strong children than to repair broken men.

KFU GRANTS:

Hafez R. Madkor, Sherif W. Monsour, and Mueen A. Khalil, Anti-angiogenic Activities of Some Saudi Medicinal Plants on Experimentally Induced Breast Cancer in Rats (2011, 100000.00)

Ashraf A. Khalil Kamel A Metwally and Hafez Madkor, "Design and synthesis of novel compounds for prevention of Diabetic complications", (2010, SR 165200)

Mueen Ahamed, Hafez R. Madkor, Mahesh Attimad, "Studies on Metabolomic profiling of Saudi Arabian Medicinal Plants through the integration of Metabolomics and Fluxomics" (2010, SR 17500)

Hafez R. Madkor, Sherif Wagih, and Gamal Shebil. Effect of Natural Medicinal Herbs "dietary Curcuma longa, Ginger (Zingiber officinale) and Garlic (Allium sativum)", as an insulinotropic agents, on experimentally induced diabetes mellitus in rats. 2009/2010, SR 100.000

2. Dr. Hafez R. Madkour**Scientific Conferences and Workshops attended:**

1. Bakheet Elsadek, Ralph Graeser, Norbert Esser, Khalid Abu Ajaj, Tahia Saleem, Nagla El Melegy, Hafez Madkor, Felix. Development of a novel water-soluble prodrug of paclitaxel that is cleaved by prostate-specific antigen (PSA): In vitro and invivo evaluation. AACR 101st Annual Meeting 2010 in Walter E. Washington Convention Center, Washington DC, on April;17-21, 2010. Annual Scientific Congress of the "Egyptian Society of Biochemistry and Molecular Biology" (ESBMB), Cairo, Egypt, April 28-29,2005.
2. The Frist Congress of Biochemistry, Department of Biochemisry, Assiut University, Assiut, Egypt, December 21-23,2005.
3. Workshop entitled "From Genes To Proteins" in Mubarak City For Scientific Research And Technology Applications, Burg El-Arab, Alexandria, Egypt, from 16 to 20 July 2005.
4. Workshop entitled " The Second Pharmacy Day" , National Guard Health Affairs, Eastern Region; King Abdul Aziz Hospital, Al Ahsa. 21/10/2008.
5. Workshop on " The Role of Saudi Commission For Health Specialties" , College of Clinical Pharmacy, KFU, KSA; 28/10/2008
6. Supervisor on a Scientific trip to Jamjoom Company for Pharmaceutical products, Jeddah, College of Clinical pharmacy, King Faisal University, KSA,12-13/4/1429 H
7. Supervisor on a Scientific trip to Al-Kaseem Company for Pharmaceutical products "SPIMACO ADDWAEIH", Al-Kaseem College of Clinical pharmacy, King Faisal University, 20-22/5/2009 H
8. Participate in the workshop of HPLC in Ryadh, July 2009.

Experimental Skills

1. Basic Biochemistry Techniques including quantitative Immuno- and spectroscopic assays.
2. Qualified experience with ELISA and RIA Techniques.
3. HPLC and other chromatographic techniques.
4. DNA isolation (Bacteria, blood and plasmid)
5. PCR, Agarose gel electrophoresis, restriction digesion and dna purification and ligation.
6. Transformation and Protien purification.
7. SDS –PAGE electrophoresis

3. 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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Workshops:

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

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

Projects submitted to KACST

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

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

3. 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. 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.
2. 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 Mar; 41(3): 554-60
3. 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).
4. 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.
5. Sahibzada T Rasool and others, "Increased level of IL-32 during Human Immunodeficiency Virus infection suppresses HIV replication" *Immunology Letters* 117 (2008) 161-167
6. 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
7. Muhammad 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

8. S T Rasool, The synergistic effects of organotin compounds in Polysorbate 80 as a chronic nerve toxin, University of Scranton, PA 18510 USA, 2000 (Thesis)
9. S T Rasool, et al. "Malathion, a pharmacological and toxicological review", Medical Forum, July 2004.
10. A. Hamid, A. Salaam, A.H. Asif, Shabir, R.Firdaus, T. Rasool, Syed Mussassar "Effect of Exercise on Body weight and Blood Pressure" Medical Forum, September 2004
11. A. Hamid, A. Salaam, A.H. Asif, Shabir, R.Firdaus, T. Rasool, Syed Mussassar "Effects of Exercise on Glucose, Lipid profile and Apo-Protein B Medical Forum" September 2004
12. M A Niazi, S T Rasool, et al. "Tarsoraphy, an effective approach to treat indolent corneal ulcers" Rawalpindi Medical Journal, (1993), 21,20-24.
13. Afzal Haq Asif, Sahibzada T. Rasool, Sibghatullah Sangi, Mohammad Elwesali " Pyridoxal Phosphate prevents Aminoglycoside induced electrolyte imbalance" under review.
14. Naveed ullah, Habib Ahmad, Afzal Haq Asif, Taimur Khan, Fazli Khuda, Rabia Anwar, Sahibzada T Rasool, " Antibacterial activities of Mirabilis Jalapa against Salmonella typhae, Escherichia coli and Bacillus subtilis" , Manuscript under preparation.

Conference Presentations.

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

Experimental Skills

Biochemical and Molecular

Biology

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

Cellular Experiment

Cell culture, skilled at 293, 293T, Hela cells , Jurkat T cells, U251, U937 cells etc.

MTT cytotoxicity assay, Cell transient transfection.

Detection of Protein expressing by SDS-page, Western Blot , ELISA and Immuno-Fluorescence.

Gene knock down with RNAi.

Test protein-protein interaction with Mammalian Two-Hybrid Assay, Co-localization and immuno-precipitation in vivo.

Virus Experiment

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

Bioinformatics

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

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asiataha@kfu.edu.sa,
meetasia@gmail.com

Awards :

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

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

Senior Research Fellow
CSIR Effect of DHEA
on aging rat brain
(2004- 2005 at Jawa-
harlal Nehru Univer-
sity, India. [http://
www.jnu.ac.in](http://www.jnu.ac.in)

Junior Research Fellow
UGC mechanism of
antidiabetic and anti-
oxidant action of cer-
tain trace metals and
plant extracts on ex-
perimentally induced
diabetic rats. [http://
www.ugc.ac.in](http://www.ugc.ac.in)

Cleared **National Eligi-
bility Test (NET)** for
Lectureship

4. 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 Bio-chemistry. 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. Kumar P, Taha A, Kale RK, S M Cowsik, Baquer NZ, Physiological and Biochemical effects of 17 β estradiol in Aging female rat brain. .Exp Gerontol. 2011 (In Press)
2. 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.
3. 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
4. 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.
5. 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
6. 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.

7. 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.
8. Mohammad Rizwan Siddiqui, K. Moorthy, Asia Taha, Mohd. Ejaz Hussain, Najma Z Baquer. Low doses of vanadate and *Trigonella* synergistically regulate Na⁺/K⁺ ATPase activity and GLUT-4 translocation in alloxan diabetic rats. *Molecular and Cellular Biochemistry*, 2006; 285(1-2):17-27
9. 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.
10. 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.
11. 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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***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 neph-
ropathy in albino rats.*

*Antidiabetic activity of
Alpenia Galanga.*

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

1. 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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2. Dr. Sibghatullah M. Sangi

MBBS, University of Sindh, M. Phil & PhD, University of Karachi, Pakistan

ASSOCIATE PROFESSOR, PHARMACOLOGY

TEACHING EXPERIENCE : 21 years of experience, teaching Pharmacology, Therapeutics, Hospital Pharmacy ,Clinical trials, Drug marketing and monitoring including ,Evidence based medicine.

RESEARCH INTEREST :

1. Psychopharmacology
2. Cancer treatment
3. Cardiovascular pharmacology
4. Drug interactions
5. Non-opiate treatment of opioid dependence

LIST OF PUBLICATIONS:

1. 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, (In Press).
2. Sibghatullah Sangi ,Nicosur (Niacin) as Primary drug for hyperlipidemia Available online from, Aug 01, 2009, <http://www.articlesbase.com/medicine-articles/nicosur-niacin-as-primary-drug-for- hyperlipidemia-1089574.html>.
3. Sibghatullah Sangi, Shahida P. Ahmed, Muhammad Aslam Channa, Muhammad Ashfaq†, Shah Murad Mastoi, A New and Novel treatment of opioid dependence: Nigella Sativa 500 mg. J Ayub Med Coll Abbottabad 2008;20(2), 118-124.
4. Safdar Ali Sheikh,Asmat kamal Ansari,Ghulam Hussein Kaka,Sibghatullah Sangi, Asymptomatic Albumin urea in apparently health individuals, Pakistan Postgraduate medical journal Vol 18 No.3, 2007.
5. Sibghatullah Sangi,Shahida P.Ahmed,Shamoon Takween,Shah Murad Mastoi , Role of Nigella Sativa In Opioid Dependence Treatment. Pakistan Journal of Pharmacology Vol.23,No.1, 2006, pp51-60
6. Dr.muhammad aslam channa,Dr.muhammad ashfaque,Dr.Sibghatullah sangi,Dr.muhammad Baqar soomro Toxicity of Ciprofloxacin; preventive role of zinc chloride on appearance of secondary ossification centers in wistar albino rat litters The professional vol:11, No:01, 2004

7. Muhammad Aslam Channa, Muhammad Ashfaq, Sibghatullah Sangi, Muhammad Azam Qureshi, Muhammad Zahoor Janjua. Effects of ciprofloxacin on secondary ossification centers in juvenile wistar albino rats. Published in JAMC journal of Ayub medical college vol:16 No.3 2004.
8. Sibghatullah Sangi, Kausar Aamir, Jamal Ara and Saeed A. Mahar "Effects of Diazepam & Promethazine on Uterine Contractions induced by prostaglandin E₂ (PGE₂) Journal of Surgery Pakistan (International), Vol. 8 (1) 2003 pp. 06-09.
9. Abdul Qadeer, Muhammad Talat Mehmood, Sibghatullah Sangi, Muhammad Shahab Athar and Saeed Ahmed Mahar, Trichobezoar and Gastric polyps: A rare association Journal of Surgery Pakistan (International) Vol. 8 (1) 2003 pp. 28-29
10. Dr. Muhammad Aslam Channa, Dr. Muhammad Zahoor Janjua, Dr. Muhammad Baqir Soomro, Dr. Sibghatullah Sangi, Protective role of Anti-oxidant against hepatotoxicity by ciprofloxacin in wistar albino rats, THE PROFESSIONAL vol:10, No:03, 2003.
11. Sibghatullah Sangi, Kausar Aamir, Jamal Ara, Shafique Ahmed, Arshad Qureshi, Muhammad Farooque, Naseemullah Siddiqui and Saba Tasneem, Effects of Diazepam on Uterine contractions, produced by prostaglandin E₂ (PGE₂)" Journal of Baqai Medical University, Vol. 5, No. 1 (2002) pp. 13-16.
12. Arshad Qureshi, Kausar Aamir, Sibghatullah Sangi, Muhammad Arif, Saba Tasneem and Jamal Ara. "Role of Montelukast in ovalbumin sensitized guinea pig lung parenchymal tissue in comparison with varapamil in vitro" Journal of Baqai Medical University, Vol. 5, No. 1 (2002) pp. 17-20.
13. Sibghatullah Sangi, Kausar Aamir, Jamal Ara, Saba Tasneem, Arshad Qureshi, Nighat Kafil and Shah Murad Mastoi "Effects of Promethazine on Uterine Contractions, produced by Prostaglandin E₂ (PGE₂), Journal of Surgery Pakistan (International) Vol. 7 (4), 2002 pp. 08-11.
14. Kausar Aamir, Sibghatullah Sangi, Jamal Ara, Saeed A Mazhat, Zulfiqar Rahujo "A study of Flovoxamine in hospital out patients with major depressive illness" Journal of Surgery Pakistan, Vol. 6, No. 3 (2001) pp. 34-36.
15. Dr Sibghatullah sangi "Effects of Diazepam and Promethazine over uterine contractions induced by Prostaglandin E₂ (PGE₂), M.Phil Thesis, B.M.S.I.JPMC, Karachi, 2001.
16. Badar Faiyaz Zuberi, Shankar Lal Rathi, Sibghatullah Sangi, Ramzan Rajput & Nawaz Lashari: Relapse of peptic ulcer after eradication of helicobacter pylori with low dose, short-term one week triple therapy" Journal of College of Physicians & Surgeons Pakistan, Vol. 8, No. 5 (1998) pp. 224-226.

Membership

1. *The Pakistan Pharmacological society.*
2. *Board of studies in Pharmacology, University of Karachi, Pakistan.*
3. *List member, American Association for treatment of opioid dependence*



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ASSISTANT PROFESSOR,

TEACHING EXPERIENCE : Four year Experience of teaching Pharmacy Practice

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. Wasif.S, Tahir. M. K., et al (2010) Therapeutic adherence with Methadone treatment evaluation of therapeutic adherence and withdrawal MMTP in Penang, Malaysia. [In press] Health Med Journal 1(4).
2. Amer Hayat Khan, Syed Azhar Syed Sulaiman , Abdul Razak Muttalif , Mohamed Azmi Hassali & Tahir Mehmood Khan (2010). Tuberculous Lymphadenitis at Penang General Hospital, Malaysia [In press] Medical Principles and Practices.
3. 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.
4. 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.
5. Mueen Ahmed KK & Tahir M Khan (2010) Plant Metabolomics, The Future prospects of Phyto-chemistry. Pharmaceutical Methods 1(1) 65.

6. Tahir .M. Khan (2010) Challenges to Pharmacy practice in Pakistan. Australasian Medical Journal Vol 4(4).
7. 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.
8. Tahir .M. Khan et al (2010) Evaluation of Knowledge towards Breast Cancer among Multiethnic Students: A Qualitative Study JCDR 4 (2):2504-2511.
9. 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
10. 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).
11. 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.
12. 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).
13. 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.
14. Tahir M Khan, et al (2010) Incidence of Major Depression among Fresh First Year Pharmacy Undergraduates JCDR 4(2) pp 2265-2270.
15. Mudassir Anwar, Syed Azhar Syed Sulaiman, Keivan Ahmadi and Tahir Mehmood Khan. (2009) Awareness of school students on sexually transmitted diseases (STDs) and their sexual behaviour in Pulau Pinang, Malaysia BMC Public Health 2010, 10:47doi:10.1186/1471-2458-10-47
16. Tahir M.Khan, (2010) Evaluation of Knowledge Towards Depression Among The Inhabitant at Batu Maung Fishermen Village, Penang Malaysia. Pharmacy research Journal (3)8.
17. Abdul Hameed, Tahir. M. Khan, & Wasif gillani (2009) End-stage renal failure secondary to Alport syndrome with secondary peritonitis. HealthMed Journal Vol (3) issue (2).
18. AH Khan, T M Khan et al., (2009) Effects of Tranexamic Acid and Its Derivatives on the Chemical and Metabolic Modulation of Glutathione in Aqueous Solution. Jul- Aug 2009, Vol 2, Issue 3 Asian Journal of Pharmaceutical and clinical practices.
19. Ejaz. MA , Khan.TM & Azmi. S (2009) A Comparative Evaluation Of Communication Apprehension Among Pharmacy And Non-Pharmacy Undergraduates. Health Med Journal Vol(3) issue (5).
20. Ghulam .S. Khan, Hamid Hussain, Abbas Khan, Aliena Badshah, Naveeda Sarwar & Tahir M Khan (2009) Incidence of Substance Abuse among Inmate at Peshawar Prison, Pakistan. Health-Med Journal Vol(3) issue (4).
21. Hafsa S. Najim, Syed A. Sulaiman' & Tahir M. Khan (2009) Metformin Use with Contraindications in Diabetic Type-2 Patients. HealthMed Journal Vol(3) issue (5).

3. Mr. Tahir M. Khan

22. 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.
23. 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
24. 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.
25. 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*.
26. 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*
27. 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.
28. 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)*.
29. 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*.
30. Mohammad Ismail, Zafar Iqbal Muhammad Hammad, Salwa Ahsan Abdul Latif Sheikh, Syed Muhammad Asim & Tahir Mehmood Khan (2009) Drug Utilization Evaluation of Piperacillin/Tazobactam in a Tertiary Care Teaching Hospital [In review] *Healthmed Journal*
31. Qutaiba, K. Alrawi, Ishak Mat & Tahir,M.Khan (2009), A Comparative Profile Analysis of The Expression Of IBMR3 Antigens In Cardiac Tissue of Balb/C Mouse and Rat. *HealthMed Journal*, 3(2).

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

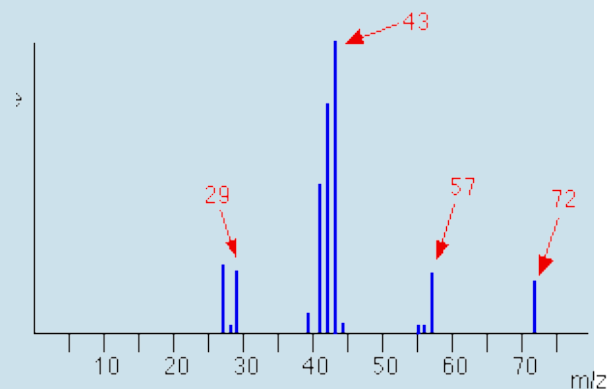
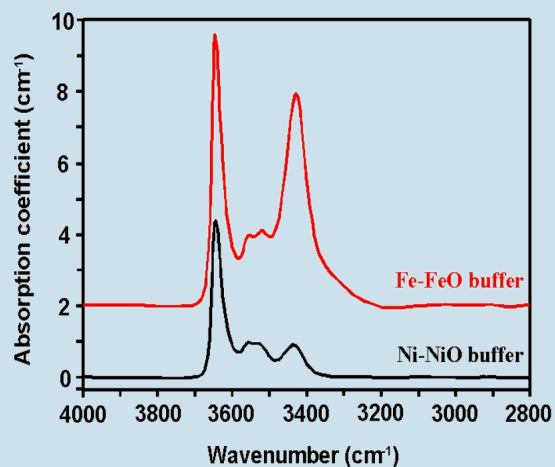
3. Mr. Tahir M. Khan

Presentation at Conferences

1. Khan, T. Mehmood & Syed, A.S. Sulaiman. A review of Challenges to medical education. 6th Asia Pacific Medical Education Conference, (Feb 2009) National University of Singapore.
2. 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. CSPA Symposium 2009 Organizing Committee.
3. Tahir .M. Khan, Mohamed .A. Hassali & Asrul A Shafie Evaluation of Public Knowledge toward the Use of Herbal Beverages in Penang, Malaysia CSPA Symposium 2009 .
4. 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
5. 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 CSPA Symposium 2009 .
6. 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.
7. 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. 6th Annual Canadian Conference on International Health & Health Equity: Our Global Responsibility, Oct 25 -28, 2009, Ottawa, ON, Canada.
8. Khan. T.M, Syed .A.S & Mohamed A. H: 2008; Recognition of depression among Malaysian. 11th Bridging Eastern and Western Psychiatry Congress Turkey.
9. 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, 8th ACCP Conference Surabaya Indonesia.
10. Khan. T.M, Syed .A.S & Mohamed A. H: July 2008; Public believes about the complications of depression, 8th ACCP Conference Surabaya Indonesia.
11. 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.
12. 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) 2nd Pharmacy congress, Uni. Santo Tomas Faculty of Pharmacy Manila, Philippines.
13. Khan. T.M, Syed Azhar. S: Sept 2007; Knowledge Attitudes and the Practices for Depression in Malaysia, Asian Association Of Colleges Of Pharmacy (AASP) Conference Philippines



RESEARCH INSTRUMENTS



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



Gas Chromatograph / Mass Spectrometer (GC/MS)

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

Make / Model : Shimadzu, GCMS-QP2010

Carrier gas : Helium

Mass Range : 10-1500 m/z

Resolution : $R > 2M$ (FWHM)

Maximum temp : 450°C

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



Liquid Chromatograph / Mass Spectrometer (LC/MS)

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

Make / Model : Agilent LCMS- 1200 series

Mass Range : 10-1500 m/z

Mass Accuracy : ± 0.13 U

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

High Performance Liquid Chromatography (HPLC)

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

Make / Model : Shimadzu class LC-20AT

Detectors : UV/Visible and fluorescence

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



FTIR Spectrophotometer

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

Make/Model : Shimadzu, FTIR-8400S

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

Resolution : 1 cm^{-1}

IR absorption has numerous applications in qualitative and quantitative analysis.



UV-Visible Spectrophotometer

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

Make/Model : Shimadzu, UV-1700

Spectrum Range : 1100-190 nm

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

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





Atomic Absorption Spectrophotometer

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

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

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



Spectrofluorophotometer

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

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

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

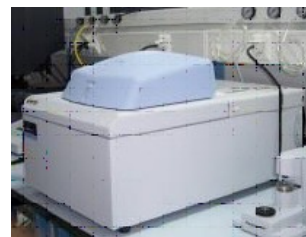
"Anger is a destroyer for the heart of a sage; and he who does not have his anger under his control does not have his wisdom under his control, either."

Differential Scanning Calorimeter (DSC)

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

Make / Model	: Perkin Elmer
Temperature Range	: -150 °C to max. 700°C
Measurement range	: ± 350 mW at RT
Temperature Accuracy	: ± 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).



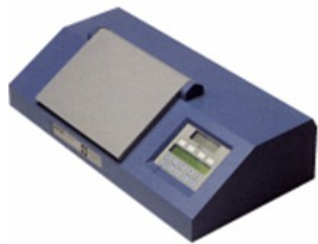


Tunable Microplate Reader

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 ₂ :99.998% (Transistor grade)

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

Gel Electrophoresis



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

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

Speed : :approx. 8 tests / hour

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

Benchtop Tablet Press

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

Make /model : Erweka, TRB 16

For round - and odd shaped tablets

TRB 16 max. diameter / length 18 mm

The compression force can be adjusted up to 4 tons

Max. Filling Depth 17 mm

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

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



Freeze-dryer

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



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



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TAKEN BY : ALI ALMERZA

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