

PERSONAL DETAIL

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Date of Birth June 14, 1963
Designation Assistant Professor
Faculty Pharmacy
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EDUCATIONAL QUALIFICATION

Sr. No.	Institution attended	Year attended		Examination	Year of passing	Marks obtained/Total marks	Division	% age	Subjects
		From	To						
01	Govt. Islamia High School Kanjrur (District Sialkot)	1976	1979	Matric	1979	587/850	1st	69	Science
02	Govt. Degree College Baghbanpura, Lahore	1979	1981	F.Sc	1982	600/1000	1st	60	Science
03	Govt. Islamia College Civil lines, Lahore	1981	1983	B.Sc	1983	375/800	2nd	47	Bot, Zoo, Chem.
04	University of the Punjab, Lahore	1984	1988	B.Pharm	1989	600/1000	1st	60	Pharmacy subjects
05	University of the Punjab, Lahore	1989	1991	M.Phil	1991	580/900	1st	64.45	
06	Universiti Sains Malaysia, Penang Malaysia	2005	2008	PhD	2009	Pharmaceutical Chemistry			

EMPLOYMENT RECORD

Post held	Employer	Govt./Private	Permanent/temporary	BPS	Salary/Month in Rs	From	To	Cause of leaving
R & D Pharmacist	Shaheen Dawakhana, Lahore	Private	.....	...	10000	1-6-91	31-12-98	Better opportunity
R & D Pharmacist	Lasani Pharma Pvt. Ltd., Lahore	Private	.....	...	15000	1-6-99	30-3-2002	Better opportunity
Lecturer	University of the Punjab, Lahore	Govt.	Permanent	17	15000	27-5-2002	4-8-2003	Better opportunity
Assistant Professor	University of the Punjab, Lahore	Govt.	Permanent	19	65000	5-8-2003	to date	Promotion

PROFESSIONAL AFFILIATION/ MEMBERSHIP

- 1- Member Pakistan Pharmacist Association.
- 2- Registered Pharmacist in Punjab Pharmacy Council, Pakistan.
- 3- Member Academic Staff Association, University of the Punjab, Lahore, Pakistan.

AREA OF EXPERTISE

Standardization of natural products, development of analytical methods, stability studies, pharmacokinetics and biological activity-guided isolation.

RESEARCH SUPERVISED

- 1- **Thesis title:** Management information system of college of pharmacy (Project ID F01/D-1/Pid-165) M.Sc 2001. Name of students; Usman Naveed (MCSF01A213), Nauman Rana (MCSF01A193), MCSF01A189). Punjab University College of Information Technology, University of the Punjab, Lahore, Pakistan.

CURRENT STUDENTS

1. PhD students:
 - a. Mrs. Abida Latif
 - b. Mr. Muhammad Isalm
 - c. Mr. Muhammad Khalid Tippu
 - d. Mrs. Shaista
 - e. Mr. Muhammad Saleem
2. M.Phil students:
 - a. Mr. Tanveer A. Khan
 - b. Mr. Irfan Sohail
 - c. Mr. Sohail Amjad

RESEARCH GRANTS

1. Pak Rupees 125000 from University of the Punjab, Lahore, Pakistan. "Phytochemical investigations of *Daucus carota L.*" (Completed)
2. Pak Rupees 200, 000 from University of the Punjab, Lahore, Pakistan. "Pharmacological activities of extracts of *Daucus carota L.*" (In progress)

PUBLICATIONS

1- Local Conferences (Oral presentations)

- 1- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Evidence based standardized herbal medicine: Metabolomic fingerprint profiling and principle component analysis. 15th International Pharmacy Conference and Exhibition, April 5-8, 2009. Lahore, Pakistan.
- 2- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *Orthosiphon stamineus* standardized extracts: Antiangiogenic activity and role in diseases involving vascularization. 15th International Pharmacy Conference and Exhibition. April 5-8, 2009. Lahore, Pakistan.
- 3- Muhammad Tahir Majeed, Khalid Hussain, Mamoona Noreen, Mateen Izhar. An easy solution to a key step in cloning experimentation. 15th International Pharmacy Conference and Exhibition. April 5-8, 2009. Lahore, Pakistan.
- 4- Muhammad T. Khan, Muhammad Islam, Furqan K. Hashmi, Amjad Hussain, Khalid Hussain, Nadeem I. Bukhari. *Phoenix sylvestris* pits: Proximate analysis and *in vitro* adsorption capacity for paracetamol. 16th International Pharmacy Conference and Exhibition 2011, April 28 to May1, 2011, Lahore, Pakistan.
- 5- Amjad Hussain, Nadeem Irfan Bukhari, Khalid Hussain, Muhammad Tayyab, Madeeha Shakeel, Sameera Anjum, Saira Rehman, Tayyaba Rasool, Asima Asghar. Study of prescribing errors and their effect on patient perception and compliance in psychiatric patients of a mental hospital. 16th International Pharmacy Conference and Exhibition 2011, April 28 to May1, 2011, Lahore, Pakistan.
- 6- Ghulam Rassol Noor, Shahid Mukhtar, Amjad Hussain, Sabiha Karim, Furqan K. Kashmi, Khalid Hussain, Nadeem Irfan Bukhari. Design and evaluation of amlodipine besylate matrix tablet-effect of polymer ratio and the method of preparation. 16th International Pharmacy Conference and Exhibition 2011, April 28 to May1, 2011, Lahore, Pakistan.

2- International Conferences (Oral presentations)

- 1- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Antioxidant activity of *Piper sarmentosum* Roxb. extracts (PT-O-01). USM-UNAIR First Collaborative Conference, 13-14 June, 2007, Penang Malaysia. Biotechnology and Pharmaceuticals: Enhancing the Quality of Life.
- 2- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Standardization of extracts of *Piper sarmentosum* Roxb. by HPLC and GC TOF-MS (PT-O-07). USM-UNAIR First Collaborative Conference, 13-14 June, 2007, Penang Malaysia. Biotechnology and Pharmaceuticals: Enhancing the Quality of Life.
- 3- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *In vitro* comparison of bioenhancing activity of isolates of *Piper sarmentosum* and *Orthosiphon stamineus* on isoniazid (PC-O-08). USM-UNAIR First Collaborative Conference, 13-14 June, 2007, Penang Malaysia. Biotechnology and

- Pharmaceuticals: Enhancing the Quality of Life.
- 4- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim Amin Malik. *In vitro* antiangiogenesis activity of standardization extracts of *Piper sarmentosum* Roxb. (OB-08). RCIE, November, 27-28, 2007, Padang, Indonesia.
 - 5- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Herbal medicine: Standardization by metabolomic fingerprinting and its application to study the fruit of *Piper sarmentosum*. Postgraduate Forum in Natural Products, March 6, 2008. Nottingham University (Malaysia Campus, Kuala Lumpur).
 - 6- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Standardization, *In vitro* and *in vivo* antioxidant activity of ethanol extracts of fruit and leaf of *Piper sarmentosum*. 22nd Malaysian Society of Pharmacology and Physiology Scientific Meeting 2008. April 5-6, 2008, University of Malaya, Kuala Lumpur, Malaysia.
 - 7- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim, Amin Malik, M.Tahir. *In vitro* and *in vivo* antioxidant properties of standardized extracts of *Piper sarmentosum* (O-040). 2nd Collaborative Conference UNAIR-USM, 10-11 Feb, 2009, Indonesia.
 - 8- Zhari Ismail, Khalid Hussain, Amirin Sadikun, Pazilah Ibrahim. Kanotib: A herbal based bio-enhancer for anti-TB drug isoniazid. International TB Symposium and Exhibition. March 18-19, 2009, Penang, Malaysia.
 - 9- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Toxicological and pharmacokinetic studies of ethanol extracts of fruit and leaf of *Piper sarmentosum*. Bandung International Conference on Medicinal Plants, Aug 6-8, 2009, Indonesia.
 - 10- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *In vitro* antimycobacterial activity of *Orthosiphon stamineus* extracts and their interaction with isoniazid. International Conference on Pharmacy and Pharmaceutical Sciences, Oslo, 2009.
 - 11- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Quantification of three amides in extracts of *Piper sarmentosum* by gas chromatography time of the flight spectroscopy. October 5-7, 2009, Yogoycarta, Indonesia.
 - 12- M.Z. Danish, A. Bashir, F.Z. Khan, N.I. Bokhari, K. Hussain, I. Aslam, S. Chamen, M. Jamshaid. *In vitro* and *in vivo* prospective of Seabuckthorn (*Hippophae rhamnoides*) berry extract: an extended approach towards formulation development. 13th Mip Tec-The leading European Event of drug Discovery, September 21-24, 2010, Basel, Switzerland.
 - 13- Furqan Khurshid Hashmi, Uzma Saleem, Bashir Ahmed, Khalid Hussain, Nadeem Irfan Bukhari, Syed Saeed Ul Hassan. The Propagation of WM-68 Hybridoma Cell-line in Different Media Conditions. 2010 FAPA Congress in Taipei, Taiwan. The 23rd Federation of Asian Pharmaceutical Associations Congress Abstract No. 659 (01A019). Nov 5-8, 2010.
 - 14- Khalid Hussain, Zhari Ismail, Amirin Sadikun, Abida Latif, Nadeem Irfan Bukhari, Furqan Khurshid Hashmi, Syed Saeed-ul-Hassan, Bashir Ahmad. *In vivo* hepatoprotective activity of ethanol extracts of leaves and fruit of *Piper sarmentosum*. Natural Product Conference 2010, Dec 10-12, 2010. Penang Malaysia.

3- International Conferences (Poster presentation)

1. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *Piper sarmentosum*: Anti-angiogenic activity for tumor and metastasis. Women's Health & Asian Traditional Medicine, Conference and Exhibition Towards Sustainable Medicine and Healthcare, Nov 16-17, 2007, Kuala Lumpur, Malaysia, P 228, WHAT Medicine III Proceedings.
2. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *Piper sarmentosum* extracts: Antiobesity role through inhibition of vascularization, standardized and preclinical studies. British Pharmaceutical Conference, September 15-18, 2009. Manchester, UK.

INTERNATIONAL INNOVATION COMPETITIONS

1. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim, Amin Malik, Hayder Bahasahab. Kadomide: Standardised extract of kadok having antiangiogenic activity. Malaysia Technology Expo 2008. 7th Invention and Innovation Competition, Feb 21-23, 2008. PWTC, Kuala Lumpur, Malaysia. **(Silver Medal)**
2. Zhari Ismail, Khalid Hussain, Hayder Bahasahab, Amirin Sadikun, Pazilah Ibrahim, Amin Malik Shah Abdul Majid. Nobesti, a piperamide based nutraceutical. Bio Malaysia, Oct 7-9, 2008, Kuala Lumpur, Malaysia. **(Silver Medal)**
3. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim, Amin Malik, Kadomide: Amide alkaloids from kadok having antiangiogenic activity. MTE, Feb 19-23, 2008, Kuala Lumpur, Malaysia. **(Bronze Medal)**
4. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Kanotib: A herbal based bio-enhancer of an anti-TB drug isoniazid. Malaysia Technology Exp 2009, 19-21 Feb, 2009. Kula Lumpur, Malaysia. **(Bronze Medal)**
5. Amin Malik, Zhari Ismail, Khalid Hussain, Hayder Bahasahab. A novel standardised plant component with antiangiogenesis and synergistic activity on tamoxifen treated hormone sensitive breast cancer. (pecepta, 2009, Malaysia). Kula Lumpur Convention Center, 8-10 October 2009. **(Silver Medal)**
6. Zhari Ismail, Khalid Hussain, Amirin Sadikun. (STANEXTIB: Standardized extract for enhanced bio-based anti-TB drug isoniazid. Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. 17 - 19 November 2009. (<http://www.usm.my/r&d/Awards/2009/BIO2009.htm>). **(Bronze Medal)**
7. Amin Malik Shah Abd. Majid, Zhari Ismail, Hayder B. Sahib and Khalid Hussain, "CANSSUFIVE[®]" A Novel Standardised Plant Component With Antiangiogenesis and Synergistic activity on Tamoxifen treated hormone sensitive breast cancer. 39th International Exhibition of Invention New Techniques & Products (Geneva 2011). PALEXPO EXHIBITION HALL 7, GENEVA, SWITZERLAND, 06 - 10 April 2011. **(Silver Medal)**

PUBLICATIONS IN JOURNALS

1- Local journals (Impact factor)

1. Mohammad Riaz and Khalid Hussain Ami. The stability of aminophylline. *Pakistan Journal of Pharmaceutical Sciences*, 1993, 6(1), 35-44.
2. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Extraction efficiency of water, ethanol and supercritical carbon dioxide for amide content from fruit of *Piper sarmentosum* using colorimetry and high performance liquid chromatography. *Journal of the Chemical Society of Pakistan*, 2010, 32(1), 109-114.
3. Khalid Hussain, Muhammad Tanveer Khan, Zhari Ismail, Amirin Sadikun. Rapid separation and determination of betulinic acid from a complex matrix using combination of TLC and RP-HPLC. *Pakistan Journal of Pharmaceutical Sciences* (In review)

2- Local journals (Without impact factor)

1. Khalid Hussain, Tahir Javed Khan. Stability of chlorhexidine digluconate in aqueous formulations. *Pakistan Journal of Pharmacy*, 1998-2002, 11-15 (1&2), 19-23.
2. Khalid Hussain, Syed Saeed-ul-Hassan. Solubility of essential oils by non alcoholic agents. *Journal of*

Medical Science, 2003, 3(3), 220-226.

3. Amjad Hussain, Khalid Hussain, Nadeem Irfan Bukhari, Furqan Khurshid Hashmi, Asima Asgher, Tayyaba Rasool, Madeeha Shakeel, Sameera Anjum, Saira Rehman, Muhammad Tayyab. Study of non-compliance and its reasons in outdoor patients with mental illness of a public hospital. *Pakistan Journal of Pharmacy*, 2003-2006, 16-19 (1 & 2), 12-24.
4. Khalid Hussain, Bashir Ahmad, Furqan K. Hashmi, Amjad Hussain, Abida Latif. The Pharmacy Act XI of 1967: Quackery and irrational use of drugs. *Pakistan Journal of Pharmacy*, 2003-2006, 16-19 (1 & 2), 35-36.

3- International journals (Impact factor)

1. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *Piper sarmentosum*: total contents of proteins, polysaccharides, glycosaponins and evaluation of bio-enhancing effect on isoniazid using *Mycobacterium tuberculosis*. *Natural Product Radiance*, 2008, 7(5), 402-408.
2. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Antioxidant, anti-TB activities, phenolic and amide contents of standardized extracts of *Piper sarmentosum* Roxb. *Natural Product Research*, 2009, 23(3), 238-249.
3. Tahir M. Khan, Syed A. Suleman, Muhamed A. Hassali, Syed W. Gillani,
4. Mudassir Anwar, Khalid Hussain, Amer Hayat Khan. Incidence of depression and its demographic correlates: Outcome of descriptive study at the psychiatry OPD Penang, Malaysia. *HealthMed*, 2009, 3 (3), 204-211.
5. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. *Piper sarmentosum* extracts: Antiobesity role through inhibition of vascularization, standardization and preclinical studies. *Journal of Pharmacy and Pharmacology*, 2009, Suppl 1, A101-A102.
6. Khalid Hussain, Zhari Ismail, Amirin Sadikun and Pazilah Ibrahim. Standardization and *in vivo* antioxidant activity of ethanol extracts of fruit and leaves of *Piper sarmentosum*. *Planta Medica*, 2010 (76), 418-425.
7. Khalid Hussain. Un-standardized and defective evaluation practices in the examination system in pharmacy institutes of Pakistan. *American Journal of Pharmaceutical Education*, 2010, 74(1), 2-3.
8. Khalid Hussain, Nadeem Irfan Bukhari, Muhammad Zeeshan Danish, Syed Saeed ul Hassan, Muhammad Tanveer. Adsorption of paracetamol on activated charcoal in the presence of dextropropoxyphene hydrochloride, N-acetylcysteine and sorbitol. *Latin American Journal of Pharmacy*, 2010, 29(6), 883-888.
9. Khalid Hussain, Zhari Ismail, Amirin Sadikun. Evaluation of ethanol extracts of leaves and fruit of *Piper sarmentosum* for *in vivo* hepatoprotective activity. *Latin American Journal of Pharmacy*, 2010, 29(7), 1215-1220.
10. M. Zeeshan Danish, M. Jamshaid, A. Bashir, N.I. Bokhari, F.Z. Khan, K. Hussain, I. Aslam. Antihyperlipidemic effect of Seabuckthorn berry extract, a comparative *in vivo* study in rabbits. *Journal of Pharmacy and Pharmacology*, 2010, 62(10), 1490-1491.
11. Khalid Hussain, Zhari Ismail, Amirin Sadikun. High performance thin-layer chromatography method for quantification of betulinic acid in extracts of leaves of *Orthosiphon stamineus* Benth. *Asian Journal of Chemistry*, 2011, 23(3), 977-979.
12. Amjad Hussain, Nadeem Irfan Bukhari, Khalid Hussain, M. Jamshaid, Salamat Ali, M. Tayyab, Nadia Ilyas. Preliminary assessment of the prescribing errors in outpatient department of public sector teaching hospitals in Lahore. *HealthMed*, 2011, 5(1), 101-105.
13. Khalid Hussain, Zhari Ismail, Amirin Sadikun and Pazilah Ibrahim. Bioactive markers based pharmacokinetic evaluation of extracts of a traditional medicinal plant, *Piper sarmentosum*. *Evidence Based Complementary and Alternative Medicine*, 2011, (2011), 1-8.
14. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Accelerated stability and chemical kinetics of fruit ethanol extract of *Piper sarmentosum* using high performance liquid chromatography. *Iranian Journal of Pharmaceutical Research*, (in press)

15. 14-Khalid Hussain, Furqan K. Hashmi, Syed S. Hassan, Abida Latif, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Evaluation of aqueous extract of *Orthosiphon stamineus* for *in vitro* antimycobacterial activity and interaction studies with isoniazid. *Latin American Journal of Pharmacy*, 2011, 30(7), 1298-1302.

4- International Journal (Without impact)

1. Saeed-ul-Hassan, Khalid Hussain, Syed Atif Raza, Nisar-ur-Rehman. Adsorption of paracetamol on activated charcoal. *Bulletin of Pharmaceutical Sciences*, 2004, 27(2), 325-330.
2. Saeed-ul-Hassan, Nisar-ur-Rehman, Khalid Hussain, S. Atif Raza. Simultaneous HPLC quantification of Diltiazem and N-demethyldiltiazem in human plasma *Bulletin of Pharmaceutical Sciences*, 2006, 29(1), 325-33.
3. Khalid Hussain, Syed Saeed-ul-Hassan, Noor Jahan, Syed Atif Raza, Abida Latif. Lead in collyrium and silver foils by absorbance modification, stability of lead thymol blue complex and comparison of different methods. *Environmental Sciences: An Indian Journal*, 2008, 3(1), 84-88.
4. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim, Amin Malik. *In vitro* Antiangiogenesis activity of standardization extracts of *Piper sarmentosum* Roxb. *Jurnal Riset Kimia*, 2008, 1(2), 146-150.
5. Hussain K, Majeed M T, Ismail Z, Sadikun A, Ibrahim P. Complementary and alternative medicine: quality assessment strategies and safe usage. *Southern Med Review*, 2009, 2(1), 19-23.
6. K. Hussain, Z. Ismail, A. Sadikun and P. Ibrahim. Proximate and qualitative analysis of different parts of *Piper sarmentosum* and quantification of total amides in various extracts. *Pharmacognosy Research*, 2009, 2(2), 113-119.
7. K. Hussain, Z. Ismail, A. Sadikun and P. Ibrahim. Evaluation of extracts of *Piper sarmentosum* for
8. accelerated stability by metabolomic fingerprint profiling. *Pharmacognosy Research*, 2009, 1(4), 219-225.
9. Zunoliza Abdullah, Khalid Hussain, Zhari Ismail, Rasadah Mat Ali, Mazura Pizar, Fadzureena Jamaludin and Rohana Sahdan. Evaluation of extracts of leaf of three *Ficus deltoidea* varieties for antioxidant activities and secondary metabolites. *Pharmacognosy Research*, 2009, 1(4), 216-223.
10. Khalid Hussain, Zhari Ismail, Amirin Sadikun and Pazilah Ibrahim. Simultaneous quantification of three amides by gas chromatography time of flight mass spectrometry in extracts of *Piper sarmentosum*. *Analytical Chemistry -An Indian Journal*, 2009, 8(3).
11. Khalid Hussain, Zhari Ismail, Amirin Sadikun and Pazilah Ibrahim. Cytotoxicity evaluation and characterization of chloroform extract of leaf of *Piper sarmentosum* possessing antiangiogenic activity. *Pharmacologyonline*, 2009, 2, 379-391.
12. Khalid Hussain, Zhari Ismail, Amirin Sadikun and Pazilah Ibrahim. Evaluation of metabolomic changes in fruit of *Piper sarmentosum* in various seasons by metabolomics using Fourier Transform Infrared (FTIR) spectroscopy. *International Journal of Pharmaceutical and Clinical Research* 2009, 1(2), 68-71.
13. Zunoliza Abdullah, Khalid Hussain, Zhari Ismail, Rasadah Mat Ali. Anti-Inflammatory activity of standardised extracts of leaves of three varieties of *Ficus deltoidea*. *International Journal of Pharmaceutical and Clinical Research*, 2009, 1(3), 100-105.
14. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Abida Latif, Nadeem Irfan Bukhari, Furqan Khurshid Hashmi, Syed Saeed-ul-Hassan, Bashir Ahmad. *In vivo* hepatoprotective activity of ethanol extracts of leaves and fruit of *piper sarmentosum*. *Malaysian Journal of Pharmaceutical Sciences*, 2010, Suppl. No. 1, 37-37.
15. Muhammad Tahir Majeed, Khalid Hussain, Mamoona Noreen, Mateen Izhar. Optimum range of plasmid supercoiled DNA for preparation of competent Top 10 *E. coli*. *Archives of Pharmacy Practice*, 2011, 2(2), 76-80.

WORKSHOPS AND TRAININGS

1. Thin layer chromatography workshop, 7-9 November, 2006, KBioCORP, Kedha, Malaysia.
2. Biostatistics workshop, Universiti Sains Malaysia, Penang, Malaysia.
3. Occupational safety, Universiti Sains Malaysia, Penang, Malaysia.
4. Three Days Academic Retreat for HEC Approved Supervisors. June 3-5, 2010, COMSATS, Abbottabad, Pakistan.
5. Environmental toxicology and health. Department of Pharmacology and Toxicology, University of Veterinary and Animal Sciences, Lahore in collaboration with Department of Clinical Neuroscience, University of Cambridge, UK. March 8-9, 2011.

REFERENCES

1. Professor Dr. Zhari Ismail. School of Pharmaceutical Sciences, Universiti Sains Malaysia, Pulau Penang, Malaysia. Phone and Fax: +604-6563443, email zhari@usm.my
2. Associate Professor Dr. Amirin Sadikun. School of Pharmaceutical Sciences, Universiti Sains Malaysia, Pulau Penang, Malaysia. Phone and Fax: +604-6563443, email amirin@usm.my
3. Professor Dr. Mohammad Riaz Arshad. 39-Faisal Block, Azam Garden, Near Mesoora, Multan Road, Lahore. Phone: +92-42-35416317. Email mrriaz51@hotmail.com.