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Other Information: Date of Birth [June 14, 1963], **Nationality** [Pakistani],

Passport No. [AH 6899372],

Marital Status [Married, three children].

EDUCATIONAL RECORD

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			

AREA OF EXPERTISE

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

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 AFFILIATIONS/ MEMBERSHIPS

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

MISCELLANEOUS ACADEMIC, NON-ACADEMIC AND MANAGERIAL ASSIGNMENTS

- 1- Served for one year (2006) as a President, Student Council of International House, Universiti Sains Malaysia, Pulau Penang, Malaysia.
- 2- Higher Education Commission's approved research supervisor since 2009.
- 3- Member Board of Faculties, University of the Punjab, Lahore, Pakistan since 2010.
- 4- Staff Secretary, University College of Pharmacy, University of the Punjab, Lahore, Pakistan since 2010.
- 5- Incharge Time Table, University College of Pharmacy, University of the Punjab, Lahore, Pakistan since 2010.

- 6- Incharge Undergraduate Examinations, University College of Pharmacy, University of the Punjab, Lahore, Pakistan since 2010.
- 7- Member Doctoral Programme Committee, University College of Pharmacy, University of the Punjab, and Lahore, Pakistan since 2010.
- 8- Member Admission Committee, University College of Pharmacy, University of the Punjab, Lahore, Pakistan since 2010.
- 9- Member Admission Committee, Old Campus, University College of Pharmacy, University of the Punjab, Lahore, Pakistan since 2010.
- 10- Member of Election Commission, Academic Staff Association, University of the Punjab, Lahore to hold election in 2012.
- 11- Member Board of Studies, Faculty of Pharmacy, University of the Punjab, Lahore, since 2012.
- 12- Nominated Member of the Affiliation Committee, University of Health Sciences, Lahore, Pakistan vide letter UHS/P&D/2885, dated June 20, 2012.
- 13- Executive Editor, Archives of Pharmacy Practice.
- 14- Editor, Pakistan Journal of Pharmacy.

RESEARCH GRANTS

1. Pak Rupees 125,000.00 from University of the Punjab, Lahore, Pakistan. "Phytochemical investigations of *Daucus carota L.*" (Completed)
2. Pak Rupees 200,000.00 from University of the Punjab, Lahore, Pakistan. "Pharmacological activities of extracts of *Daucus carota L.*" (Completed)
3. Pak Rupees 125,000.00 from University of the Punjab, Lahore, Pakistan. "Pharmacokinetic and stability studies of extracts of *Daucus carota L.*" (In progress)

THESIS COMPLETED UNDER SUPERVISION/CO-SUPERVISION

S. No	Level	Year	Topic	Role	Student name
1	M.Sc.	2001	Management information system of college of pharmacy (Project ID F01/D-1/Pid-165) M.Sc.	External supervisor	Usman Naveed/Nau man Rana
2	M. Phil.	2011	Development and characterization of differential release single tablet formulation of amlodipine besylate and simvastatin using statistical algorithms	Co-supervisor	Shahid Mukhtar
3	M. Phil.	2011	Impact of therapy of different interferons on economic and clinical outcomes in patients with chronic hepatitis C	Co-supervisor	Munazza Tanveer
4	M. Phil.	2011	Design and evaluation of fixed dose tablet formulation for continuous release of amlodipine besylate and delayed release of simvastatin using artificial neural network approach	Co-supervisor	Ghulam Rasool Noor

5	M. Phil.	2011	Study of the effects of co-administration of paracetamol with antiemetic drugs on tri-iodo thyronine, thyroxin and follicle stimulating hormone using radioimmuno assay	Co-supervisor	Ghayur Abbas
6	M. Phil.	2011	Phytochemical and Hepatoprotective Studies of Oxalis corniculata	Supervisor	Irfan Sohail
7	M. Phil.	2011	Phytochemical Studies and adsorbent activity of Phoenix sylvestris seeds for Paracetamol	Supervisor	Muhammad Tanveer Khan

CURRENT RESEARCH STUDENTS UNDER SUPERVISION/CO-SUPERVISION

Number	Level	Registered with	Role
2	PhD	University College of Pharmacy, University of the Punjab, Lahore Pakistan	Supervisor
3	PhD	University College of Pharmacy, University of the Punjab, Lahore Pakistan/ Postgraduate Medical Institute, Sheikh Zayed Hospital, Lahore	Co-supervisor
8	M. Phil.	University College of Pharmacy, University of the Punjab, Lahore, Pakistan	Supervisor
8	M. Phil.	University College of Pharmacy, University of the Punjab, Lahore, Pakistan	Co-supervisor

PATENTS

1. Khalid Hussain, Zhari Isamil. A herbal composition having anti-obesity property.
Document Type and Number: WIPO Patent Application WO/2011/112067.
([http://www.sumobrain.com/patents/wipo/Herbal-composition having-anti-obesity/WO2011112067.html](http://www.sumobrain.com/patents/wipo/Herbal-composition%20having-anti-obesity/WO2011112067.html))

PUBLICATIONS**1- Local Conferences [Oral presentations]**

1. Khalid Hussain, Zhari Ismail, Amirin Sadikun, Pazilah Ibrahim. Evidence based standardized herbal medicine: Metabolomic fingerprint profiling and principal 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. First National Seminar on Use of Animal in Science: Ethical and Practical Considerations. University College of Pharmacy, University of the Punjab, Lahore. Pakistan. January 3-4, 2011.
5. 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 May 01, 2011, Lahore, Pakistan.
6. 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 May 1, 2011, Lahore, Pakistan.
7. 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 May 1, 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.
- 15- Furqan K. Hashmi, Mahwish Qamar, Khalid Hussain, Bashir Ahmad, Khalid Tipu, Muhammad Islam. Comparison of pneumonia treatment in pediatrics with standard treatment guidelines in a tertiary care hospital, 11th Asian Conference on Clinical Pharmacy, Manila, Philippines, 24—27 June 2011.
- 16- Furqan Khurshid Hashmi, Khalid Hussain, Muhammad Islam, Muhammad Khalid tipu, M. Umer Hafeez, Shahzad Ali, M. Tauseef-ul-Haq, Muzammil Ali, Usman Sajid, “Self-medication behaviors with special reference to psychoactive agents in educated community of Lahore.” International Conference of Toxicology, Department of Pharmacology and Toxicology, University of Veterinary and Animal Sciences, Lahore. Pakistan. January 26—27, 2012.
- 17- Ghayur Abbas, Khalid Hussain, Amjad Hussain, Furqan Khurshid Hashmi, Sabiha Karim, Nadeem Irfan Bukhari. Study of the effects of s of co-administration of paracetamol with antiemetic drugs on tri-iodothyronine, thyroxin and follicle stimulating hormone using radioimmunoassay. 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.

- 18- Furqan Hashmi, Nadeem Irfan Bukhari, Khalid Hussain, Amina Maqsood, Mahum Meer, Abida Latif, Muhammad Islam, Khalid Tippu. Characteristics and patterns of doxorubicin induced liver injury in cancer patients at a tertiary care hospital. 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.
- 19- Abida Latif, Furqan Khurshid Hashmi, Amjad Hussain, Khalid Hussain, Nadeem Irfan Bukhari, Rukhsana Sher, Bashir Ahmad, Syed Saeed-ul-Hassan. *In-vitro* antioxidant activity and phytochemical studies of kanji and extracts of root of *Daucus Carota* L. 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.

3- International Conferences (Poster presentations)

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.

4- Publications in Journals

1. Mohammad Riaz and Khalid Hussain Ami. The stability of aminophylline. *Pakistan Journal of Pharmaceutical Sciences*, 1993, 6(1), 35-44.
2. Khalid Hussain, Tahir Javed Khan. Stability of chlorhexidine digluconate in aqueous formulations. *Pakistan Journal of Pharmacy*, 1998-2002, 11-15 (1&2), 19-23.
3. Khalid Hussain, Syed Saeed-ul-Hassan. Solubility of essential oils by non alcoholic agents. *Journal of Medical Science*, 2003, 3(3), 220-226.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

12. Tahir M. Khan, Syed A. Suleman, Muhamed A. Hassali, Syed W. Gillani, 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.
13. 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.
14. 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.
15. 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.
16. K. Hussain, Z. Ismail, A. Sadikun and P. Ibrahim. Evaluation of extracts of *Piper sarmentosum* for accelerated stability by metabolomic fingerprint profiling. *Pharmacognosy Research*, 2009, 1(4), 219-225.
17. 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.
18. 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).
19. 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.
20. 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.
21. Zunoliza Abdullah, Khalid Hussain, Zhari Ismail, Rasadah Mat Ali. Anti-Inflammatory activity of standardized extracts of leaves of three varieties of *Ficus deltoidea*. *International Journal of Pharmaceutical and Clinical Research*, 2009, 1(3), 100-105.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. Khalid Hussain, Bashir Ahmad, Furqan Khurshid Hashmi. The additional one year pre-registration workload on pharmacy graduates: An irrational approach. *Pakistan Journal of Pharmacy*, 2010, 20-23(1&2), 43-44.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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, 1-8.
33. 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*, 2011, 10(3), 403-413.
 34. 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.
 35. Khalid Hussain, Furqan K. Hashmi. Standardization in evaluation system in pharmacy institutes of Pakistan. *American Journal of Pharmaceutical Education*, 2011, 75 (8), 403-413. Article 167. (doi: 10.5688/ajpe758167)
 36. 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.
 37. Khalid Hussain. Unlawful and unjustified collection of enrolment fee from pharmacy students. *Archives of Pharmacy Practice*, 2011, 2(4), 141-142.
 38. 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*, 2012, 25(2), 413-422.
 39. H. Khalid, Furqan K. Hashmi, L. Abida, I. Zhari, S. Amirin. A literature review and latest advances in research of *Piper sarmentosum*. *Pharmaceutical Biology*, 2012, early online, 1-8.
 40. Afeefa Tahira, Uzma Saleem, Furqan Khurshid Hashmi, Khalid Hussain, Saeed Mahmood, Nadeem Irfan Bukhari, Bashir Ahmad. Evaluation of protective and curative role of α - lipoic acid and selenium in gentamicin-induced nephrotoxicity in rabbits. *Pakistan Journal of Pharmaceutical Sciences*, 2012, 25(1), 103-110.
 41. Muhammad Tanveer Khan, Khalid Hussain, Nadeem Irfan Bukhari, Abida Latif, Furqan Khurshid Hashmi, Muhammad Islam, Muhammad Masood. Evaluation of seeds of *Phoenix sylvestris* as novel candidate adsorbent in paracetamol poisoning. *Latin American Journal of Pharmacy*, 2012, 31(5), 678-685.
 42. Furqan Khurshid Hashmi, Khalid Hussain, Nadeem Irfan Bukhari, Muhammad Islam, Muzammil Ali, Muhammad Khalid Tipu, Mohammad Tanveer Khan, Abida Latif. Cisplatin-induced nephrotoxicity in different regimens of cancer chemotherapy. HealthMed (Accepted).
 43. Furqan Khurshid Hashmi, Khalid Hussain, Muhammad Islam, Muhammad Khalid Tipu, M. Umer Hafeez, Shahzad Ali, M. Tauseef-ul-Haq, Muzammil Ali, Usman Sajid, Self-medication behaviors with special reference to psychoactive agents in educated community of Lahore. *International Journal of Clinical Pharmacy* (Manuscript under review)
 44. H. Khalid, I. Zhari, S. Amirin, A. M. M. S. Amin, L. Abida, H. K. Furqan, H. Amjad. Antiangiogenic activity and bioassay-guided isolation of aqueous extract of *Orthosiphon stamineus*. *Journal of the Chinese Chemical Society*, Online June 8, 2012, DOI:10.1002/jccs.201100753
 45. Muhammad Khalid Tipu, Uzma Saleem, Khalid Hussain, Khushi Muhammad, Furqan K. Hashmi, Muhammad Islam, Bashir Ahmad. The role of zinc on antibody titer and agranulocytes count in rabbits treated with methotrexate and prednisolone. *Pakistan Journal of Pharmaceutical Sciences (Accepted)*
 46. Sohail A, Khalid H, Nadeem I Bukhari, Muhammad T Khan, Furqan K Hashmi, Amjad H, Abida L, Sabiha K, Muhammad Z Danish. Analytical, nutritional and biological evaluation of various brands of fortified and non-fortified wheat flour. *Journal of Food Science and Agriculture* (In review)
 47. Amjad Hussain, Ahmad Mahmood Mumtaz, Nadeem Irfan Bukhari, Khalid Hussain Effect of cellulose acetate phthalate and polyethylene glycol on release kinetics of theophylline release from microcapsules. *Acta Pharmaceutica* (In review).

INVITED SPEAKER

- 1- Pharmacy education in Pakistan: Past, Present and Future, Department of Social and Administrative Pharmacy, School of Pharmaceutical Sciences, Universiti Sains Malaysia, Dec 13, 2010.

- 2- Evaluation of seeds of *Phoenix sylvestris* as novel candidate adsorbent in paracetamol poisoning. 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.

CHAired SCIENTIFIC SESSIONS

- 1- Three scientific sessions of 16th International Pharmacy Conference and Exhibition 2011, April 28 to May 1, 2011, Lahore, Pakistan.
- 2- Session 2 of 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.

INNOVATION COMPETITIONS/AWARDS

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. By Malaysian Association of Research Scientists. (**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. BioInno Award by Malaysian Association of Research Scientists and Malaysian Biotechnology Corporation. (**Silver Medal**)
3. 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. Kuala Lumpur, Malaysia. By Malaysian Association of Research Scientists. (**Bronze Medal**)
4. 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. (Pecipta, 2009, Malaysia). Kuala Lumpur Convention Center, 8-10 October 2009. By Ministry of Higher Education Malaysia and University Malaya (**Silver Medal**)
5. 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.research.usm.my/Awards/2009/BIO2009.htm>). (**Bronze Medal**)
6. Amin Malik Shah Abd. Majid, Zhari Ismail, Hayder B. Sahib and Khalid Hussain, "CANSSUFIVE[®]" A Novel Standardized 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**)
7. Acti-Carb [Activated carbon]. Muhammad T. Khan, Abida Latif, Furqan K. Hashmi, Amjad Hussain, Khalid Hussain, Nadeem I. Bukhari, Sabiah Karim. Invention to Innovation Summit. June 18, 2012, University of the Punjab, Pakistan Science Foundation, IRP. (**Innovation Award**)
8. HepGuard [Effervescent Granules] Abida Latif, Muhammad T. Khan, Furqan K. Hashmi, Amjad Hussain, Khalid Hussain, Nadeem I. Bukhari, Sabiha Karim, Syed saeed ul Hassan. Invention to Innovation Summit. June 18, 2012, University of the Punjab, Pakistan Science Foundation, IRP. (**Innovation Award**)
9. DuBlok []. Invention to Innovation Summit. June 18, 2012, University of the Punjab, Pakistan Science Foundation, IRP. (**Innovation Award**)

NTIONAL/INTERNATIONAL AWARDS/DISTICTIONS

1. Awardee of Commonwealth Scholarship and Fellow Ship Plan for PhD by the Govt. of Malaysia.
2. Research Incentive award of Rs 120,000.00 in year 2009 from University of the Punjab, Lahore, Pakistan.
3. Research Incentive award of Rs 125,000.00 in year 2010 from University of the Punjab, Lahore, Pakistan.
4. Inclusion of name in TOP 100 Scientists of year 2011 of the world (International Bibliographic Center Cambridge, UK)
5. Research Incentive award of Rs 102,000.00 in year 2011 from University of the Punjab, Lahore, Pakistan.

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

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3. Professor Dr. Mohammad Riaz Arshad. 39-Faisal Block, Azam Garden, Near Mesoora, Multan Road, Lahore. Phone: +92-42-35416317. Email mriaz51@hotmail.com.