CURRICULUM VITAE

NAME:	**PROF. DR. MUHAMMAD ASHRAF**
Father's Name:	M. Allah Rakha
Date of birth:	March 01, 1954
I. D. Card No.	35202-4635219-1
Nationality	Pakistani
Office Address:	Professor Emeritus, Department of Pharmacology & Toxicology, University of Veterinary & Animal Sciences, Lahore-Pakistan
Residence Address:	60-A, Jinnah Street, Rustam Park, Lahore-Pakistan
Contact Detail:	Res: 92-42-37480479 Office: 92-42-99212989 Mobile: 92-333-4423453
Email Address:	drashraf2001@uvas.edu.pk drashraf2001@yahoo.com

ACADEMIC QUALIFICATION

Institute	Certificate/ Degree	Year of Passing	Marks Obtained (Division)	Subjects
Lahore Board	Matriculation	1969	745/900 (Ist)	Science Group
University of Agric., Faisalabad	F.Sc	1971	1449/2100 (Ist)	Agric. Group
-do-	D.V.M.	1975	2704/4000 (Ist)	Vety. Sciences
-do-	M.Sc (Hons)	1980	636/700 CGPA:4/4 (Ist)	Vety. Medicine
University of Minnesota, U.S.A.	Ph.D	1989	CGPA: 3.73/4 (Ist)	Pharmacology & Toxicology (Vet. Medicine)

ACADEMIC DISTINCTION

- ✓ Through out Ist Division & Merit Scholarship Holder
- ✓ Silver Medal in M.Sc (Hons.) First Position
- ✓ Quaid-E-Azam Scholarship for Higher Studies
- ✓ Best University Teacher Award from HEC for the year 2008
- ✓ Research Productivity Award 2012, 13, 14,15.
- ✓ Tamgha-i-Imtiaz 2014.

POSTGRADUATE RESEARCH

M.Sc (Hons) 1980 University of Agriculture, Faisalabad

Thesis Title: Anthelmintic efficacy of phenothiazine, piperazine, Levamisole and babarang against mature and immature stages of A. galli and H. gallinarum in chickens.

Research Advisor: Dr. M. T. Khan, Associate Professor, College of Veterinary Sciences, Lahore.

Ph.D 1989 University of Minnesota, USA

Thesis Title: The pharmacokinetics and the mechanism of renal excretion of thiamphenicol in cattle.

Research Advisor: Prof. Dr. C.M. Stowe, Professor of Veterinary Clinical Pharmacology and Toxicology, University of Minnesota, College of Veterinary Medicine, St. Paul, U.S.A.

Publication/Participation in Conferences / Students Supervised:

a. **Research papers**
National (60) & International (80): 140

b. **Conferences/Seminars**
Organized : 14
Attended : 41
Abstracts Published
(National & International) : 121

c. **Books** : 13

d. **M.Phil Supervision**
- Completed : 123
- Enrolled : 15
- Member (completed) : 49

e. **PhD Supervision**:
- Completed : 10
- Enrolled : 07
- Member (completed) : 08

SERVICE/FIELD EXPERIENCE

Position	**Where Employed**	**Duration**
Lecturer	College of Veterinary Sciences, Lahore (U.A. Faisalabad)	20.5.1976 – 02.09.1989
Assistant Professor	-do-	03.09.1989 – 18.05.1996
Associate Professor	University of Vet. & Animal Sciences, Lahore.	19.5.1996 to 26-05-2003
Professor	-do-	27-05-2003 to 28-2-2014
Professor (T.T.S)	-do-	05-11-2009 to 4-11-2013
Tenured Professor	-do-	5-11-2013 to 28-2-2014
Professor Emeritus	-do-	28-3-2014 to date
Chairman	Pharmacology & Toxicology	24-07-2002 to 28-2-2014
Dean	Faculty of Bio-Sciences, UVAS, Lahore.	30-08-2003 to 3-9-2009 1-12-2012 to 28-2-2014
Director Research	UVAS, Lahore	09-09-2009 to 9-1-2012

MEMBERSHIP/PROFESSIONAL ACTIVITIES

- ✓ Life membership of Pakistan Association for the advancement of science.
- ✓ Life membership of Pakistan Veterinary Medical Association.
- ✓ Life membership of Pakistan Veterinary Medical Council.
- ✓ Member, Society of Veterinary Pharmacology.
- ✓ Member, Society for the advancement of Veterinary Medicine.
- ✓ Member, Honour Society of Agriculture, Minnesota, Chapter, U.S.A.
- ✓ Officer Incharge, Pharmacology Section, College of Veterinary Sciences, Lahore.
- ✓ Officer Incharge, Postgraduate section (M.Sc) College of Veterinary Sciences, Lahore.
- ✓ External Examiner for M. Phil (Pharmacology), Faculty of Pharmacy, University of the Punjab, Lahore.
- ✓ External Examiner of Pharmacology for Pharm-D students, Lahore College University for women, Lahore.
- ✓ External Examiner for D.V.M. degree examination, Gomal University, D.I. Khan.
- ✓ Member, Panel of Experts in the Punjab Public Service Commission.
- ✓ Member, Board of Examination for Ph.D comprehensive examination, U.A. Faisalabad.
- ✓ Member, Board of Examination for Ph.D comprehensive examination, University of Veterinary & Animal Sciences, Lahore.
- ✓ Member, Panel of Experts for evaluation of research projects funded from general research fund by the Ministry of Health, Govt. of Pakistan.
- ✓ Member, Academic Council, University of Agriculture, Faisalabad.
- ✓ Reviewer of articles for “Pakistan Veterinary Journal”.
- ✓ Reviewer of articles for “Pakistan Journal of Scientific Research”.
- ✓ Reviewer of articles for “Pakistan Journal of Science”.
- ✓ President society of Veterinary Pharmacology.
- ✓ Organized a seven day workshop on “Pharmacokinetics” CVS, Lahore in June, 2001.
- ✓ Organized a poster competition for the society of Veterinary Pharmacology 2002.
- ✓ Member of Organizing Committee of “National Seminar on diseases of sheep and goats”, March 28, 1996 at CVS., Lahore
- ✓ Member expert committee on veterinary drugs, Ministry of Health, Government of Pakistan.
- ✓ President Basket ball club UVAS.
- ✓ Chairman, Library Committee, UVAS.
- ✓ Member Finance & Planning Committee, UVAS, Lahore.

- ✓ Member Academic Council, UVAS.
- ✓ Chairman, Department of Pharmacology & Toxicology and Departmental Board of Studies.
- ✓ Member Board of Directorate of Advanced Study and Research, UVAS.
- ✓ Member Board of Faculty of Veterinary Sciences, UVAS.
- ✓ Chairman, Board of Faculty of Biosciences, UVAS
- ✓ HEC approved Ph.D supervisor.
- ✓ Director Research, UVAS 2009-2012.
- ✓ Tutor & Coordinator of mega group No. 9.
- ✓ Member Student Disciplinary Advisory Committee, UVAS.
- ✓ Member of committees for the preparation of undergraduate and postgraduate courses.
- ✓ Established Angiogenesis and toxicology research laboratory in the department of Pharmacology & Toxicology 2008.
- ✓ Visit of two Pharmaceutical Companies Medion & Sanbe Pharma at Bandung under the Directive of the "Ministry of Health" from April 30th to May 4th, 2008 in Indonesia.
- ✓ Best University Teacher Award for the year 2008 from Higher Education Commission.
- ✓ Organized a Workshop Ethical & Scientific Procedures for Laboratory Animals – Course for Research Scientists from June 22 to July 04, 2009, University of Veterinary & Animal Sciences, Lahore in collaboration with University of Cambridge, United Kingdom.
- ✓ Organized a one week hands, on training course on (Modern Techniques in Angiogenesis and Toxicology) June 01 to 07, 2010 in collaboration with University of Cambridge, Cambridge United Kingdom.
- ✓ Organized a National Seminar & Workshop on Environmental Toxicology & Health (March 8-10, 2011) in collaboration with University of Cambridge, Cambridge United Kingdom and HEC.
- ✓ Attended AURIL conference from October 2 to 8, 2011 at London UK. as a nominated member of steering group for Knowledge Exchange from HEC and BC.
- ✓ Organized International conference on Toxicology (January 26-27, 2012) in collaboration with University of Cambridge, Cambridge United Kingdom and HEC.
- ✓ Third time deanship Faculty of Biosciences, UVAS, Lahore from 1-12-2012
- ✓ Organized International conference on Pharmaceutical Toxicology (April 25-26, 2013) in collaboration with University of Cambridge, UK and HEC-Pakistan.

DEVELOPMENTAL ACTIVITIES/ADVISORY CONSULTANCY SERVICES RESEARCH PROJECTS:

Title of Project	Mission Type	Position	Dates
Epidemiology of major Livestock diseases in Pakistan	PARC	Cooperating/ research Scientist	1994-95
Serological, Coprological and Therapeutic trials on Paramphistomiasis in buffaloes	PARB	Co-Principal Investigator	1998-2000
Kasur tanneries pollution problem	Consultant for National Management consultants	Consultant as a Veterinary Toxicologist	1991-1992
Antimicrobial activity of Menthe longifolia and Artemisia maritime.	UVAS.	Principal Investigator Department of Pharmacology & Toxicology	2005
Seasonal changes in characteristics of river Ravi near Lahore.	UVAS.	Principal Investigator Department of Pharmacology & Toxicology	2005
Establishment of Research and Training facilities for Fisheries and aquaculture Department at new Campus, Pattoki. (Worth Rs.39.331 Million)	HEC	Dean Faculty of Fisheries & Wildlife	2005-2007
Establishment of research facilities for Department of Wildlife and ecology at Bhunikey Campus, University of Veterinary & Animal Sciences, Lahore. (Worth Rs.38.728 Million)	HEC	Dean Faculty of Fisheries & Wildlife	2006-2008
Bio-equivalence Studies of Various products of amoxicillin in buffalo calves. (Worth Rs. 4.599 Million)	HEC	Principal Investigator Department of Pharmacology & Toxicology	2008-2009
Species variation in the Phamacokinetics of Ketoprofin (Worth Rs. 1.647 Million)	MoH	Principal Investigator Department of Pharmacology & Toxicology	2010-2011
Replacement of low level antibiotic feeding with extracts of medicinal plants in poultry.. (Worth Rs 2.295).	HEC	Principal Investigator Department of Pharmacology & Toxicology	2013-2014

POST GRADUATE AND INDEPENDENT RESEARCH

1. Anthelmintic efficacy of phenothiazine, piperazine, Levamisole and babarang against mature and immature stages of Ascaridia galli and Heterakis gallinarum in chickens.
Supervisor: M. T. Khan Associate Professor
College of veterinary Sciences, Lahore. (M.Sc Thesis 1980)

2. The pharmacokinetics and the mechanism of renal excretion of thiamphenicol in cattle.
Supervisor: Dr. C. M. Stowe Professor of Veterinary Clinical Pharmacology and Toxicology, University of Minnesota, College of veterinary medicine, St. Paul, U.S.A. (Ph.D Thesis 1989)

3. Analysis of detomidine in horse blood, plasma and urine samples utilizing a sensitive gas chromatography mass spectrometry method.
Supervision: Dr. A.K. Singh Assistant Professor
College of veterinary medicine, St. Paul Minnesota U.S.A. (Project founded by Minnesota Racing Commition 1987)

4. Screening and confirmation of drugs in horse urine by using a simple column extraction procedure.
Supervision: Dr. A.K. Singh Assistant Professor
College of Veterinary Medicine, St. Paul. Minnesota U.S.A. (Project founded by Minnesota Racing Commission 1989).

5. Neurotoxicity in rates sub-chronically exposed to low levels of lead.
Supervision: Dr. A.K. Singh Assistant Professor
College of Veterinary Medicine, St. Paul. Minnesota U.S.A. (1989)

6. Inhibition of cholinesterase by acephate and methamedophose.
Supervision: Dr. A.K. Singh Assistant Professor
College of Veterinary Medicine, St. Paul. Minnesota U.S.A. (1988)

7. Analysis of amino acids in brain and plasma samples by sensitive gas chromatography mass spectrometry.
Supervision: Dr. A.K. Singh Assistant Professor
College of veterinary medicine, St. Paul. Minnesota U.S.A. (1988)

8. Determination of thiamphenicol in bovine plasma by liquid chromatography.
Supervision: Dr. Felice, L. Assistant Professor
College of veterinary medicine, St. Paul Minnesota U.S.A. (1989)

9. Effect of Chloramphenicol and thiamphenicol on the pentobarbital induced sleeping time in mice.
Supervision: Dr. C.M. Stowe Professor of Clinical Pharmacology & Toxicology.
College of veterinary medicine, St. Paul Minnesota U.S.A. (1989)

M.Sc (HONS.)/M.Phil STUDENTS SUPERVISED

1. Shafeeq-ur-Rehman Kailani (1991). Studies on the efficacy of indigenous drugs against fascioliasis in buffaloes.
2. Khalid Pervaiz (1991). Anthelmintic efficacy of Melia azadarach Linn, oxfendazole, febental and thiophenate against gastro-intestinal nematodes in sheep.
3. Inam-ul-Haq (1991). Epidemiological aspects and treatment trials on black quarter disease in Dera Ismail Khan district.
4. Muhammad Amer Junaid (1992). Anthelmintic efficacy of Nigellia setiva seeds (Kalwanji), albendazole, fenbendazole and oxfendazole against gastro-intestinal nematodes in goats.
5. Muhammad Shafiq (1992). Efficacy of different ionophorus antibiotics against coccidiosis in poultry.
6. Dilshad Hussain (1992). Efficacy of albendazole against fascioliosis and its effects on SGOT and serum bilirubin in buffaloes.
7. Shahid Pervez (1993). Epidemiological aspects and treatment trials of haemoglobinuria in buffaloes and cows in district Vehari.
8. Saeed Ahmad Sindhu (1993). Anthelmintic efficacy of Caesalpinia crista, Ivermectin, Levamisole and oxfendazole against Toxocara vitulorum in buffalo calves.
9. Khaliq Shafi (1993). Drug trials on Escherichia coli isolated from broilers.
10. Abdul Hameed (1993). Efficacy of Ivermectin against ecto and endo parasites in equines.
11. Sharif Masih (1993). Efficacy of amoxycillin trihydrate against Haemorrhagic septicaemia in buffalo calves under field conditions.
12. Haleem Hassan Shah (1993). Efficacy of triclabendazole against fascioliasis in sheep and goats under field conditions.
13. Anselm Lewis Khokhar (1993). Comparative efficacy of Nitrofurans, Sulfadimidine and monensin against coccidiosis in sheep and goats under field conditions.
14. Nadeem Kamal (1994). anthelmintic efficacy of Ivermectin, Albendazole and oxfendazole against endoparasites of equines.
15. Muhammad Akram (1994). Effect of routine deworming on the development of resistance against the GIT nematodes in sheep.
16. Muhammad Ramzan (1995). Effect of glucocorticoids along with antimicrobial drugs against Haemorrhagic septicaemia in buffalo calves under field conditions.

17. Syed Nadeem Haider (1995). Efficacy of Ivermectin and coumaphos against ectoparasites in cattle and buffaloes.
18. Abrar Ahmed (1995). Efficacy of hysoine butylbromide and diclofenac sodium in equine colic.
19. Sharoon Sabir (1995). Efficacy of three different drugs against ectoparasites in naturally infested dogs and their effects on blood parameters.
20. Amer Aziz (1996). Efficacy of triclabendazole and oxyclozanide against fascioliasis in buffaloes and their effect on blood parameters.
21. Saeed Ahmad (1997). Anthelmintic efficacy of Caesalpinia crista, Fumaria parviflora, mebendazole and ivermectin against Haemonchus contortus in sheep.
22. Muhammad Umar (1998). Comparative efficacy of oxyclozanide, rafoxanide and bithionol sulphoxide against Paramphistomiasis in buffaloes.
23. Sarvat Yab Khan (1998). Comparative efficacy of buparvaquone and oxytetracycline against theileriosis in cattle and their effect on blood parameters.
24. Muhammad Mudasser Jamil (1998). Surveillance of disease problems and economic losses in commercial broiler farms in and around Lahore.
25. Muhammad Javid Iqbal (1998). Surveillance of disease problems and economic losses in commercial layer farming in Tehsil Arifwala.
26. Iftikhar Hussain Akram (1999). Effect of probiotics and hsydrated sodium calcium aluminsilicates on the performance of broilers.
27. Rahat Ali (2000). Effect of low level feeding of tylosin and zinc bacitracin on the weight gain and immunity of broiler chicks vaccinated against Newcastle disease virus.
28. Muhammad Ali Abdullah Shah (2000). Comparative anthelmintic efficacy of Moxidectin, Ivermectin and Albendazole against GIT nematodes of sheep under field conditions.
29. Rehmat Ullah (2000). Anthelmintic efficacy of Moxidectin Ivermectin and Levamisole against Toxocara vitulorum in buffalo calves.
30. Zahida Fatima (2001). Anthelmintic efficacy of Moxidectin against gastro-intestinal nematodes in equines.
31. Imtiaz Ahmad (2001). Effect of prophylactic measures against coccidiosis in broiler chicks.
32. Sohail Ejaz (2002). Comparative efficacy of Yucca schidigera extract and frusemide in ascites of broiler chicks under field conditions.

33. Khawar Qayyum (2002). Effect of Ivermectin on liver at therapeutic and higher doses in healthy and diseased dogs.
34. Maqsood Ahmad (2000). Hypoglycemic effect of Azadirachta indica (Neem) and Glipizide on Alloxan induced diabetic rabbits.
35. Muhammad Naseer uddin Ghauri (2000). Comparative of hypoglycemic effect of Glibenclamide, Gliclazide and a herbal mixture.
36. Imran Altaf (2001). Efficacy of various chemical agents against avian influenza virus (Type H_9).
37. Naseer Ahmad (2001). Bioavailability and Pharmacokinetics of ampicillin in human volunteers.
38. Aqeel Javeed (2002). Effect of Diclofenac Sodium on experimentally induced aseptic arthritis in equines.
39. Kashif Shahzad (2002). Effect of xylazine as a preanesthetic medication with chloral hydrate induced anaesthesia in equines.
40. Qamar Arif (2002). Therapeutic and prophylactic effect of antimicrobial agents against omphalitis in broiler chicks.
41. Mahreen Zahara (2002). Effect of a newly developed herbal diuretic mixture in broiler chickens.
42. Uzma Farid Durrani (2003). Role of Alpha-2-Adrenocepter agonists as sedative and analgesic in fancy birds.
43. Anwar ul Haq (2003). Effect of garlic (Allium stativum) on the growth performance and immune status of broiler chicks.
44. Muhammad Tanveer Khaliq (2004). Effect of detomidine as a preanaesthetic medication with ketamine induced anaesthesia in canines (Dogs).
45. Ayaz Ali Khan (2004). Plasma concentration of doxycycline after flock medication via drinking water in broilers
46. Muhammad Shahrukh Khan (2004). Studies on gentamicin toxicity in broiler chickens
47. Asif Farooq Awan (2004). Studies on nonsteroidal anti-inflammatory drugs toxicity in broilers
48. Ahmad Sardar Mirza (2004). Efficacy of livergen and icterene against experimentally induced hepatotoxicity in rabbits
49. Shahid Bashir (2004). Bioavailability of tylosin tartrate after flock medication via drinking water in broilers

50. Amir Bakhsh (2004). Bioavailability of amoxicillin trihydrate in broiler chickens administered through drinking water
51. Aman Ullah (2004). Effect of Vitamin-E (Alpha-tocopherol) supplementation on total lipid profile in rabbits.
52. Muhammad Babar. (2005). Preparation and evaluation of rabbit anti-buffalo immunoglobulin antibody peroxidase conjugate.
53. Sakhawat Ali (2005). Antimicrobial Activity of Mentha Longifolia and Artemisia Maritima.
54. Muhammad Irfan (2006). Toxicity of Flunixin Meglumine in Avian Species.
55. Tahir Mahmood Shaukat (2007). Comparative Efficacy of Various Antiviral Agents Against Avian Influenza Virus (Type H7).
56. Salamat Ali (2007). Effect of Detomidine and Chloramphenicol on Propofol Induced Anesthesia.
57. Muhammad Imran (2007). Effect of Malathion on Serum Cholinesterase Activity and Lipid Profile in Rabbits.
58. Muhammad Atif Raza Cheema (2007). The anti-inflammatory and antipyretic activity of nigella sativa (Black seeds, Kalonji) on induced inflammation and pyrexiain rabbits.
59. Humaira Tahir (2008). In vitro studies on the antibacterial potential of ocimum basilicum l. (Sweet Basil) and glycyrrhiza glabra (Licorice).
60. Bilal Ashiq (2008). Comparative pharmacokinetics of metronidazole in healthy volunteers & in patients suffering from amoebiasis.
61. Muhammad Usman (2008). Comparative pharmacokinetics of levofloxacin in healthy volunteers and in patients suffering from typhoid fever.
62. Muhammad Ihtisham Umar (2008). In vitro antibacterial effect of Opuntia dillenii and zingiber officinale extracts.
63. Hafiz Abubakar Siddique Akbar (2008). In vitro antibacterial effect of Psidium guajava (Amrood) and Gymnema sylvestre (Gurmar Booti) leaves extracts.
64. Shagufta Parveen (2008) Study of hypoglycemic and antihyperlipidimic effect of ethanolic extract of Gymnema sylvestre (gurmar booti) in rabbits..
65. Khaleeque Anwar (2008). Effect of Two stroke auto rikshaw smoke solutions on angiogenesis and embryonic movements using Chicken Embryo Model.
66. Misbah-ud-din Qamar (2008). Antidiabetic and antihyperlipidemic potential of different extracts of fruits of Aegle marmols (Bael gari) in rabbits.

67. Hassan Saeed (2008). Toxicilty profile of Gemcitabine and Cisplatin combination chemotherapy in male and female cancer patient.
68. M. Adil Rasheed (2009). Pharmacokinetics of long acting Amoxicillin in buffalo Calves
69. Insan-ud-Din (2009). Toxicological effects of Cigarette Smoke condensate and total particulate matter from commercial Cigarettes on Angiogenesis.
70. Rabia Altaf (2009). Potentiation of Fluoroquinolones by the use of Promethazine as efflux pump Inhibitor.
71. Siddra Abdul Rahman (2009). Effects of total particulate matter from commercial cigarettes on wound healing in mice.
72. Aqeela Iqbal (2009). Effect of two-stroke auto rickshaw smoke solution on wound healing in mice
73. Samreen Faisal (2010). Effect of lansoprazole on antibacterial activity of tetracycline and clarithromycin.
74. Muhammad Omar Khan Lodhi (2010). The effect of Statin therapy in combination with zinc on glucose & lipid profile of Type-II diabetic patients.
75. Ansa Taskeen (2010). Evaluation of the Antidiabetic and Antilipidemic effect of metformin alone and in combination with ascorbic acid.
76. Robina Taj (2010). Effects of Aqueous extract of Opuntia dilleni on Angiogenesis and Embryonic movements using Chicken Embryo Model.
77. Ijaz Alvi (2010). Evaluation of empirical therapy in E.coli induced acute uncomplicated urinary tract infection in Pakistan.
78. Sara Munir (2010). Effect of metronidazole on lowering plasma lipid levels in patents with compelling indications for metronidazole.
79. Fatima Bari (2010) Evaluation of Particulate mater in two and four stroke rickshaw smoke.
80. Rana Adnan Ali, (2011) Chemical equivalence of different brands of amoxicillin trihydrate and its minimum inhibitory concentration against bacterial isolates.
81. Syed Muhammad Muneeb Anjum, (2011) Effects of cigarette smoke condensate & total particulate matter in chicken during early embryogenesis.
82. Muhammad Adil, (2011) Dysmorphogenesis and ocular anomalies associated with toxic exposure to cigarette smoke condensate, total particulate matter and auto-Rickshaw solutions.
83. Sarwat Ali Raja (2011) Evaluation of empirical antibiotic therapy in ICU patients treated for nosocomial lower respiratory tract infections.

84. Waqas Ahmad (2011) Evaluation of antiviral and cytotoxic activity of extracts of medicinal plants against infectious bursal disease virus.
85. Farah Abid (2011) Comparative pharmacokinetics of Silymarin in healthy male and female volunteers.
86. Basit Zaheer (2011) Evaluation of the effect of different modalities in vitiligo.
87. Muhammad Ayyaz Waqar (2011) Effect of Pegaunum harmala seeds extract on angiogenesis.
88. Muhammad Asif Yousaf (2011) Effect of Calotropis procera leaves extract on angiogenesis.
89. Miss Sadaf Hina (2012) Chemical equivalence of different brands of oxytetracycline hydrochloride and its minimum inhibitory concentration against bacterial isolates.
90. Miss. Rizwana Raheel (2012) A comparative study of Antiviral and Cytotoxic activity of different parts of Acacia nilotica against Peste des petits ruminants virus.
91. Miss. Misbah Afzal (2012) In vitro evaluation of antiviral and cytotoxic activity of Ginseng root, Leaves of Tulsi and Aloe Vera against Peste Des Petits Ruminants virus.
92. Miss. Faryal Ashraf (2012) Cytotoxic and antiviral evaluation of different Opuntia species against Peste Des Petits Ruminants virus in vitro cell culture.
93. Miss. Umber Saleem (2012) Comparative evaluation of Mutagenicity and Cytotoxicity of Endosulfan, Lambda-cyhalothrin, Imidacloprid and Alpha-cypermethrin.
94. Miss. Ishrat Imran (2012) In Vitro antiviral activity of leaves extracts of Azadirachta indica, Moringa oleifera and Morus alba against Foot and Mouth disease virus.
95. Miss. Riffat Fatima (2012) Evaluation of Mutagenicity and Toxicity of First Line Anti Tuberculosis Drugs.
96. M. Qamar Zeshan (2012) Determination of in vitro antimicrobial efficacy of plant extracts and antibiotics against methicillin resistant Staphylococcus aureus (MRSA) isolated from postoperative wounds of hospitalized patients.
97. Miss. Zainab Batool (2012) Cytogenetic effects of anti-breast cancer drugs, Cyclophosphamide Doxorubicin, Cisplatin and 5-Florouracil, alone and in combination.
98. Miss. Sana Tariq (2012) Quality evaluation of different brands of ceftriaxone.
99. Shazad Asghar (2012). Effect of Vitis vinifera (grapes) fruit juice on angiogenesis.
100. Snober Khatoon Akram (2013). Mutagenic and cytotoxic evaluation of Piroxicam and Meloxicam.
101. Bushra Akhtar (2013). Evaluation of anti-inflammatory, analgesic and antipyretic activities of Grewia asiatica fruit in mice.

102. Rabia Hameed (2013) Evaluation of Cytotoxicity and antiviral activity of Moxidectin against Infuenza virus $H_{9.}$

103. Sidra azeem (2013) Evaluation of Cytotoxicity and Antiviral activity of Ivermectin against Newcastle Disease Virus.

104. Amina Nazer (2013) Genotoxicity and Mutagenicity of Metformin and Aspartame alone and in combination.

105. Warda Naeem (2013) Cytotoxic, Mutagenic and Genotoxic Evaluation of Different Aesthetic Colorants.

106. Amber Sharif (2013) Evaluation and comparision of anti-viral activity of ethanolic and steam distilled extract of *Juniperus excelsa* against Peste des Petits Ruminant virus.

107. Qamar Niaz (2013) Comparative anthelmintic efficacy of *Calotropis procera* leaves and moxidectin with particular reference to biochemical changes in sheep**.**

108. Khurram Aamir (2013) Immunomodulatory Effect of micronutrient combination (iodine, potassium iodide and ascorbic acid) in laboratory animals.

109. Nazish Matti (2013) Evaluation of cytotoxic, antiviral and mutagenic potential of micronutrient combination (iodine, potassium iodide and ascorbic acid) in vitro cell culture.

110. Muhammad Zeeshan Saleem (2014) Pharmacokinetic comparison of different formulations of Renessans containing potassium iodide(KI) in healthy volunteers

111. KalimUllah (2014) Non antimicrobial agent reverses antibiotic resistance in *Escherichia coli*

112. Sohaib Danyaal (2014) Reversal of antibiotic resistance in Methicilline- resistant *Staphylococcus aureus* by non-antimicrobial agents.

113. KOMAL NAJAM (2014) Genotoxic and mutagenic potential of anti diabetic drugs (sitagliptin and metformin) alone and in combination with artificial sweeteners

114. Sana Afzal (2014) Efficacy of anti-microbial agents with Ascorbic acid in Catheter associated Urinary tract infection

115. Shazia Khanum (2014) Evaluation of Empirical Antimicrobial Therapy in Neonatal Sepsis

116. Kinza Kanwal (2014) New inclination of derived tetrahydrocarbazole towards anti inflammatory, analgesic and antipyetic activity.

117. Ali Attiq (2014) Cytotoxicity, Mutagenicity and Genotoxocity potential of Carvedilol and Celecoxib alone and in combination.

118. Asad ulah (2014) Genotoxic, Mutagenic and Cytotoxic potential of Metformin and Celecoxib alone and in combination

119. Khadija Mansoor (2014) Antibacterial & Cytotoxic Evaluation of *Eruca sativa* Seed Extracts.

120. Sheeza Javaid (2014) Evaluation of antibacterial activity of Macrolids in combination with Levamisole HCL against different pathogenic bacteria.

121. Sahar Safdar (2014) Synergistic effectof antimicrobial agents in combination with Colistin against bacterial isolates from patients with urinary tract infections.

122. Toseef Fatima Noshahi (2014) Toxicological Evaluation of Cetrimide, Chlorhexidine and Thiomersal alone and in combination.

123. Ann Fatima (2014) Genotoxic and Mutogenic study of Formaldehyde, Sodium Hypochlorite and Cresol.

Ph.D. STUDENTS SUPERVISED

1. Dr. Muhammad Arif Khan, (2003). Clinico-Bio-Chemical studies on Detomidine Analgesia and effects of its combinations on animals **(Completed).**
2. Dr. Tahir Mehmood Khawaja (2009) Pharmacokinetics of Meloxicam in Different Species **(Completed).**
3. Dr. M. Ovais Omer (2011) Effect of Ivermectin on Macrophages and Angiogenesis in Poultry **(Completed).**
4. Amar Nasir (2011) Sero-epidemiology, transmission dynamics & hematological studies on *Neospora caninum* in dairy buffaloes **(Completed)**
5. Zaka-ur-Rehman (2012) Pharmacokinetics of Ketoprofin in Domestic Animals. **(Completed)**
6. Lubna Shakir (2012) Chemical, Microbiological and toxicological screening of tannery effluent wastewater **(Completed)**
7. Humaira Majeed Khan (2012) Isolation, Characterization of Chondroitin and its efficacy in osteoarthritis **(Completed)**
8. Mukhtar Ahmad (2012) in-vitro and in-vivo anti-theilerial activity of medicianal plants **(Completed)**
9. Mr. Muhammad Ramzan (2010). Toxicity problems associated with diclofenac sodium in avian species and its substitute. **(Completed)**.
10. Khaleeq Anwar (2013) Chemical Characterization and Toxicological Screening of Auto Rickshaw Emission Particulate Matter **(Completed)**.
11. Muhammad Adil Rasheed (2012) (In Progress) Toxicity profile of tilmicosin under *in vitro* and *in vivo conditions*.
12. Muhammad Usman (2012) (In Progress) Species variation in Pharmacokinetics of Moxifloxacin in animals and drug interaction studies in human volunteers"
13. Allah Bakhsh (2013) (In Progress) Antiviral analysis of indigenous plants extracts against hepatitis C virus (HCV) and avian influenza virus ($H9N_2$)
14. Sarwat Ali Raja (2013) Proteomic and genomic analysis of MRSA and efficacy of indigenous medicinal plants essential oils.**(Completed)**
15. Ali Shraif (2013) Chemical, microbiological, and toxicological screening of pharmaceutical effluent wastewater
16. M. Furqan Akhtar (2013). Chemical, microbiological and toxicological evaluation of textile dying industry wastewater

MEMBER Ph.D STUDENTS SUPERVISORY COMMITTEE (Completed)

1. Dr. Mazhar Iqbal (1997)

Clinco – Epidemiological Studies on Canine Leptospirosis in Lahore.

2. Dr. Tahir Yaqub (1998)

Characterization of avian influenza virus in poultry.

3. Dr. Muhammad Arshad (1999)

Characterization of egg drop syndrome virus in poultry.

4. Dr. Hamid Jalil (1999)

Isolation & characterization of E.coli strains pathogenic to poultry.

5. Dr. Farrukh Nazir (2006)

"The impact of community based Animal Health Service Delivery System on Epidemiological Parameters and Farmer's Economic Sustainability in Central Punjab".

6. Dr. Ghulam Murtaza Arshad (2008)

"Epidemiology, Serodiagnosis, Therapy and Control of Schistosomiasis in Buffaloes".

7. Dr. Ali Ahmad Sheikh (2011): Isolation and Molecular Characterization of Anitimicrobial Resistant Escherichia coli Recovered from Retail Meats

8. Dr. Farhan Ahmad Atif (2011) Epidemiology, serodiagnosis and chemotherapy of anaplasmosis in cattle.

9. Dr. Dawood Ahmad Hamdani (2014). Toxicity and Immunomodulatory Activity of Ketoprofen in Vitro and in Vivo.

10. Dr. Hamad Bin Rashid (2014).

Astudy on postural sway in horses during different sedation protocols along with clinicobiochemical evaluation in clinical cases.

11. Dr. Khalid Naveed. (2014). Effect of nabumetone on cellular and humoral immune responses in mice.

12. Dr. Shahzada Khurram. (2014). Effect of colchicine on cellular and humoral immune responses in mice

List of International Research Publications in Impact Factor Journals.
Prof. Dr. Muhammad Ashraf

Sr. No.	Authors Name	Year	Title of Article	Journal	Vol. No. Page. No.	Impact Factor	Citation
1.	Sing, A.K; Hewetson, D.W; Jodon, K.C. and **Ashraf, M.**	1986.	Analysis of organophosphorus insecticides in biological samples by selective ion monitoring gas chromatography mass spectrometry	J Chromatogr.	369:83-96	2.935	24
2.	Sing, A.K; Mishra, U; **Ashraf, M;**	1987.	Analysis of detomidine in horse blood, plasma and urine samples utilizing a sensitive gas chromatography mass spectrometry method.	J Chromatogr.	404: 223-232	2.935	9
3.	Sing, A.K; and **Ashraf, M.**	1988.	Analysis of amino acids in brain and plasma samples by sensitive gas chromatography mass spectrometry	J Chromatogr.	425: 245-255.	2.935	5
4.	Sing, A.K; Mishra, U; **Ashraf, M** and Dombrovskis, D.	1988.	Neurochemical mechanism of cocaine induced seizures in rats	Med. Sci. Res.,	16: 529-530.	0.386	
5.	Sing, A.K; Mishra, U; and **Ashraf, M.**	1988.	Inhibition of cholinesterase by acephate and methamedophose. Evidence for the binding of acephate to a modulatory "Allosteric" site	Med. Sci. Res.	16: 727-728.	0.386	
6.	Felice, L; Abdennebi, E.H; and **Ashraf, M.**	1988.	Determination of thiamphenicol in bovine plasma by liquid chromatography	J. Assoc. Off. Anal Che.	71: 1156-1157.	---	15
7.	Sing, A.K. and **Ashraf, M.**	1989.	Neurotoxicity in rates sub-chronically exposed to low levels of lead	Vet. And human toxicology	31: 21-25.	0.66	11
8.	Sing, A.K;	1989.	Screening and	J Chromatogr.	473: 215-	2.935	

	Ashraf, M; Granley, K; Mishra, U. and Rao, M.		confirmation of drugs in horse urine by using a simple column extraction procedure		226.		20
9.	Sing, AK; Hewetson, D; Gronley, K; **Ashraf, M;** Mishra, U; Dombrovskis; D.	1989.	Screening of steroids in horse urine and plasma by using Electron impact and chemical ionization gas chromatography mass spectrometry.	J Chromatogr.	479: 233-242.	2.935	4
10.	Singh AK, McArdle C, Gordon B, **Ashraf M,** Granley K.	1989 Nov;3	Simultaneous analysis of furosemide and bumetanide in horse plasma using high performance liquid chromatography	Biomed Chromatogr.	3(6):262-5	1.663aaw	11
11.	Singh AK, Granley K, **Ashraf M** and Mishra U.	1989.	Drug Screeing and Confirmation by Thin Layer Chromatography	Journal of Planar Chromatography	Volume 2, 2: 410-419	0.683	
12.	Singh AK, McArdle C, **Ashraf M,** Granley K, Mishra U, Gordon B.	1990. Aug;	Evaluation of high performance liquid chromatography (HPLC), enzyme linked immunosorbent assay (ELISA) and particle concentration fluorescence immunoassay (PCFIA) methods for the screening, quantitation and pharmacokinetic study of furosemide in horses	Forensic Sci Int.	47(1):1-15	2.015	4
13.	Singh AK, McArdle C, **Ashraf M,** Driffus S, Granley K, Gordon B and Weiss D.	1990.	Metabolism and Diuretic Effect of Furosemide: Development of Protocols for the regulation of Furosemide	Forensic Sci Int.	47:129-145.	2.015	1

			Medication in Horses				
14.	Aziz, A; **Ashraf, M;** Pervaiz, K. Hashmi, H.A. and Butt, M.Y.M.	1998.	Efficacy of Triclabendazole and Oxyclozanide against fascioliasis in buffaloes under field conditions	Buffalo, I	3: 401-405.	---	
15.	Ejaz S, Chekarova I, **Ashraf M,** Lim CW.	2006 Oct; 24	A novel 3-D model of chick chorioallantoic membrane for ameliorated studies in angiogenesis	Cancer Invest	24 (6): 567-75.	2.106	10
16.	Zahida Fatima., **Muhammad Ashraf,** Muhammad S Khan, Muhammad a Khan, Muhammad Younus	2007	Comparative Efficacy of Ivermectin and Moxidectin against Strongyloid Nematodes in Horses	International Journal Agro Veterinary & Medical Sciences (IJAVMS)	Vol. 1, 2007: 15-19	---	
17.	Kim B, Ejaz S, Chekarova I, Sukura A, **Ashraf M,** Lim CW	2008.	Cytotoxicity of fumonisin B1 in spheroid and monolayer cultures of rat hepatocytes	Drug Chem Toxicol	31(3); 339-52.	1.056	2
18.	Irfan Hafiz. M., Omer M. Ovais., **Ashraf M.,** Maqbool Azhar.,	2008	Effect of levamisole on the Cholinesterase inhibition in rabbits	Journal of Veterinary Parasitology,	22 (2): 43-45	0.846	
19.	Javeed, A; M. **Ashraf; M.** M. Mukhtar.	2009	Paclitaxel may inhibit autoimmune diseases by sparing or increasing the number of CD4 (+) CD25 (+) regulatory T cells	Bioscience Hypotheses	2: 100-101	--	
20.	Ejaz, S., Insan-ud-din, **Ashraf, M.,** Nawaz, M., Lim, C.W., Kim, B.	2009	Cigarette Smoke Condensate and Total Particulate Matter Severely Disrupts Physiological Angiogenesis	Food and Chemical Toxicology	47: 601-614	2.99	7
21.	Ejaz, S., **Ashraf, M.,**	2009	Antiangiogenic and teratalogical	Food and Chemical	47: 368-	2.99	3

	Nawaz, M., Lim, C.W., Kim, B.,		activities associated with exposure of total particulate matter from commercial cigarette.	Toxicology	376		
22.	Ejaz, S., Iqbal, A., Rahman, S. A.,Bari, F., **Ashraf, M.,** Nawaz, M., Lim, C.W., Kim, B.,	2009	Toxicological evaluation on the effects of two stroke auto rickshaw smoke solutions on wound healing.	Environmental Toxicology and Pharmacology	27: 373-383	1.47	3
23.	Sohail Ejaz, Khaleeq Anwar, **Muhammad Ashraf,** Chae Woong Lim	2009	Antiangiogenic activities associated with exposure of environmental smoke solutions from two stroke auto-rickshaw	Environmental Toxicology and Pharmacology	28: 42-51	1.47	2
24.	Sohail Ejaz, Muhammad Adil, Syed Muhammad Muneeb Anjum, **Muhammad Ashraf,** Chae Woong Lim	2009	Detrimental effects of Cigarette smoke constituents on physiological development of Extraoccular and intraocular structures.	Food and Chemical Toxicology	47(8):172-9	2.99	2
25.	Javeed A, **Ashraf M**, Riaz A, Ghafoor A, Afzal S, Mukhtar M M.	2009	Paclitaxel and immune system.	Eur J Pharm Sciences	38(4):283-90	3.650	29

26.	Khawaja Tahir Mahmood, **Muhammad Ashraf**, Makhdoom Abdul Jabbar and Mansoor-ud-Din Ahmad	2009	Pharmacokinetics of Meloxicam in Healthy Buffaloes	Pakistan Journal of Zoology	No. 9. pp. 161-166	0.189	
27.	Uzma F. Durrani, **Muhammad Ashraf,** Muhammad A. Khan.	2009	A comparison of the clinical effects associated with xylazine, ketamine, and a xylazine ketamine cocktail in pigeons.	Turk. J. Vet. Anim. Sci.	33 (5): 413-417	0.146	2
28.	Amir Rashid, Sheryar Afzal, **Muhammad Ashraf,** Aqeel Javeed & Aftab Ahmad Anjum	2009	Pharmacokinetics Studies of Amoxicillin Trihydrate in Healthy Buffalo Calves	Pakistan Journal of Zoology	Suppl. Ser., No.9 pp. 861-866 2009	0.189	
29.	Sohail Ejaz, **Muhammad Ashraf**, Muhammad Nawaz, Chae Woong Lim*	2009	Total Particulate Matter and Wound Healing: An *in vivo* Study with Histological Insights	Biomedical and Environmental Sciences	22(8): 278–287	1.35	2
30.	Sohail Ejaz, Irina Chekarova, Mukhtar Ahmad, Amir Nasir, **Muhammad Ashraf**, Chae Woong Lim	2009	Pollution dilemma in Asian population: CNG and wound healing	Environmental Toxicology and Pharmacology	Volume 28(3): 323–332	1.47	5
31.	K T Mahmood, **M.Ashraf** and M. U. Ahmad	2010	Eco-Friendly Meloxicam Replaces Eco-Demaging Diclofenac Sodium in Veterinary Practice in South Asia - A Review	Journal of Pharmaceutical Sciences & Research	Vol.2 (10), 2010,672-685	0.2334	1
32.	Khawaja Tahir Mahmood, **Muhammad. Ashraf** ,Talib Mahmood,Ikram Ul Haq	2010	Pharmacokinetics of Ecofriendly Meloxicamin Healthy Dogs	Journal of Pharmaceutical Sciences & Research	Vol.2 (12), 2010,861-866	0.2334	
33.	K.T. Mahmood,	2010	Specific and Simple	Journal of	Vol.2	0.2334	5

	B.Khan , **M. Ashraf** and I. U .Haq		HPLC Assay of Ecofriendly Meloxicam in Pharmaceutical Formulations	Pharmaceutical Sciences & Research	(12): 878-883		
34.	Mahmood, K. T., **M. Ashraf**	2010	Absolute Bioavailability of Oral Meloxicam In Healthy Dogs	The Journal of Animal & Plant Sciences,	20(3): 193-196	0.585	
35.	Khawaja Tahir. Mahmood, **Muhammad. Ashraf** ,FatimAmin ,,Ikram. Ul .Haq and Mansoor Ud Din Ahmad	2011	Pharmacokinetics of Ecofriendly Meloxicam in Healthy Goats	Journal of Pharmaceutical Sciences & Research	Vol.3(1): 1035-1041	0.2334	
36.	Lubna Shakir, Aqeel Javeed, **Muhammad Ashraf,** Amjad Riaz,	2011	Metronidazole and Immune System	Die Pharmazie	66(6):393-8.	0.81	2
37.	Khawaja Tahir Mahmood and **Muhammad Ashraf**	2011	Pharmacokinetics of Meloxicam in Healthy Donkeys	**Pakistan J**. Zool.,	vol. **43** (5): **897-901**	0.3	2
38.	Tahir Mahmood Shaukat, **Muhammad Ashraf,** Muhammad Ovias Omer, Muhammad Adil Rasheed, Khushi Muhammad, Tariq Mahmood Shaukat, Muhammad Younus and Muhammad Khurram Shahzad	2011	Comparative efficacy of various antiviral agents against avian influenza virus (type H7N3/Pakistan/2003	Pakistan journal of Zoology	43(4): 849-854	0.3	1
39.	Lubna Shakir, Muzammal Hussain, Aqeel Javeed*, **Muhammad Ashraf** and Amjad Riaz.	2011	Artemisinins and immune system	Eur J Pharmacol.	668(1-2):6-14	2.73	8
40.	Nasir A, **Ashraf M**, Khan Ms, Yaqub T Javeed A, Avais M, Akhtar F	2011	Seroprevalence of Neospora coninum in Dairy Buffaoes in Lahore District, Pakistan	J Parasitol	97(3): 541-543	1.208	3
41.	Nasir A, **Ashraf M**, Khan MS,	2012	Prevalence of *Neospora caninum*	J Parasitol	98(1):213-5.	1.208	2

	Yaqub T, Javeed A, Avais M, Michael Philip Reichel		Antibodies in Sheep and Goats in Pakistan				
42.	Z.U. Rehman**, M. Ashraf**, M.A. Khan, M.A. Jabbar and M. A. Rasheed	2012	Pharmacokinetics of Ketoprofen in Healthy Horses in Pakistan	J. Anim. Plant Sci.	22(3):2012. 584	0.585	1
43.	Ali Ahmad Sheikh[1], Khushi Muhammad[1], Masood Rabbani[1], **Muhammad Ashraf[2]** and Mueen Aslam[3]	2011	Prevalence of Antimicrobial Resistant *Escherichia coli* in Retail Meats across Alberta Canada	African Journal of Biotechnology Accepted 5-3-2011	5-3-2011	0.565	
44.	Lubna Shakir, Sohail Ejaz, **Ashraf M,** Nisar Ahmad, Aqeel Javeed	2012	Characterization of tannery effluent wastewater by proton induced X-ray emission (PIXE) analysis to investigate its role inwater pollution.	Environmental Science and Pollution Research 08/2011	19(2):492-501	2.65	5
45.	Farhan Ahmad Atif*1, Muhammad Sarwar Khan2, Muhammad Arif Khan2, **Muhammad Ashraf3** and Muhammad Avais2	2012	Chemotherapeutic Efficacy of Oxytetracycline, Enrofloxacin and Imidocarb for the Elimination of Persistent *Anaplasma marginale* Infection in Naturally Infected Sahiwal Cattle	Pakistan J. Zool.,	vol. 44(2), pp. 449-456, 2012	0.2	
46.	Muzammal Hus sain, Aqeel Javeed †*, **Muhammad A shraf,** Yong Zhao, Muhammad Mahmood Muk htar, Muti Ur Rehman	2012	Aspirin and immune system.	International Immunopharmacol ogy	12: 10-20	2.325	4
47.	Muzammal Hussain† , Aqeel Javeed *, **Muhammad Ashraf** , Amjad Riaz ,	2012	Aspirin may do wonders by the induction of immunological self-tolerance against	Med Hypotheses.	78(1):171-3.	1.393	2

	Muhammad Hassan Mushtaq		autoimmune atherosclerosis				
48.	Omer .M. O., **Ashraf. M.,** Javeed. A., Azhar. M.	2012	Immunostimulatory effect of ivermectin on macrophage engulfment and delayed type hypersensitivity in broilers	**The Journal of Animal & Plant Sciences**	**22(2): 250-255**	0.585	
49.	Muzammal Hussain, Aqeel Javeed, **Muhammad Ashraf**, Nuha Al-Zaubai, Alastair Stewart, Muhammad Mahmood Mukhtar	2012	Non-steroidal anti-inflammatory drugs, tumour immunity and immunotherapy	Pharmacological Research	66(1):7-18	3.93	11
50.	Lubna Shakir, Sohail Ejaz, **Muhammad Ashraf,** Naureen Aziz Qureshi, Aftab Ahmad Anjum, Imran Iltaf, Aqeel Javeed	2012	Ecotoxicological risks associated with tannery effluent wastewater	*Environmental Toxicology and Pharmacology,*	34(2):180–191	1.281	4
51.	Ejaz S, **Ashraf M,** Shakir L, Ahmad N	2012	Exploratory study using proton induced X-ray emission analysis and histopathological techniques to determine the toxic burden of environmental pollutants	Environ Pollut.	170:242-253.	3.43	1
52.	Muhammad Ramzan, **Muhammad Ashraf,** Khawaja Tahir Mahmood	2012	Toxicity of Flunixin Meglumine in Broiler Chickens	J. Pharmaceutical Sciences and Research	4(2), 1748-1754	0.2334	
53.	H. M. Khan, M. **Ashraf,** A. S. Hashmi, M. U. D. Ahmad and A. A. Anjum	2012	Clinical Assessment Of Experimentally Induced Osteoarthritis Rat Model In Relation To Time	J. Anim. Plant Sci.	22(4): 960-965	0.585	

54.	M. N. Anwer, M. A. Rasheed and **M. Ashraf**	2012	Pharmacokinetics Of Ketoprofen In Healthy Donkeys In Pakistan	J. Anim. Plant Sci.	22(4): 966-969	0.585	
55.	A. Ali, S. Afzal, **M. Ashraf**, S. Amin, A. Javeed and M. Usman	2012	Pharmacokinetic study of ketoprofen in healthy sheep under local conditions of Pakistan	J. Anim. Plant Sci.	22(2):588-592	0.585	
56.	Muzammal Hussain, Aqeel Javeed, **Mhammad Ashraf**, Amjad Riaz, Ijaz Ali, Aamir Ghafoor	2012	Can airway tolerance be promoted immunopharmacologically with Aspirin in Aspirin-insensitive allergic bronchial asthmatics by T regulatory cells (Tregs)-directed immunoregulatory therapy?	Journal of Medical Hypotheses and Ideas	6(2):80-84	1.393	
57.	Hussain M, Javeed A, **Ashraf M**, Siddique S, Riaz A, Mukhtar MM.	2012	Exploration of potential ligands against cancer-causing transcription factor E2F3	Pak J Pharm Sci.	2012 Oct;25(4):793-801	0.876	
58.	Muhammad Ihtisham , Umar, Aqeel Javeed Amjad Riaz, **Muhammad Ashraf,** Muhammad Mahmood Mukhtar, Sheryar Afzal, Rabia Altaf.	2013	Polarity based solvents extraction of Opuntia dillenii and Zingiber officinale for in-vitro antimicrobial activities.	International Journal of Food Properties,	16(1): 114–124	0.994	
59.	Rizwana Raheel, **Muhammad Ashraf**, Sohail Ejaz, Aqeel Javeed, Imran Altaf	2013	Assessment of the cytotoxic and anti-viral potential of aqueous extracts from different parts of *Acacia nilotica* (Linn) Delile against Peste des petits	*Environmental Toxicology and Pharmacolog.* 11/2012; 35(1):72-81.,	*35(1):72-81*	1.281	3

			ruminants virus				
60.	Rasheed M. A*., **M. Ashraf**, M. O. Omer, S. Khan	2013	Pharmacokinetics of long acting amoxicillins in buffalo calves in Pakistan	J. Anim. Plant Sci.	23(1 Suppl.): 2013, 1-4	0.585	
61.	Muhammad Usman, **Muhammad Ashraf,** Muhammad Imran Khokhar, Bilal Ashiq, Muhammad Irfan Masood, Shehryar Afzal, Ovais Omer, Mohsin Ali and M. Imran Qadir*e*	2013	Comparative Pharmacokinetics of Levofloxacin in Healthy Volunteers and in Patients Suffering from Typhoid Fever	Iranian Journal of Pharmaceutical Research Received: October 2011 Accepted: March 2012	(2013), 12 (1): 147-154	0.637	
62.	Mukhtar Ahmad, Muhammad Ashraf, Muhammad Sarwar Khan, Aqeel Javeed, Aneela Zameer Durrani, Muti-ur-Rehman Khan, Imran Altaf,	2013	Toxic Effects of Chloroform and Aqueous Extracts of Peganum harmalaon Hematological and Growth Parameters in Rabbits	Pakistan J. Zool., vol. 45(4), pp. 989-995, 2013	Pakistan J. Zool., vol. 45(4), pp. 989-995, 2013		

	Muhammad Ijaz and Naeem Akram Malik						
63.	Anwar K, Ejaz S, **Ashraf M**, Ahmad N, Javeed A.	2013	Monitoring trace elements generated by automobiles: air pollutants with possible health impacts.	Environ Sci Pollut Res Int.	20(7):4574-86.	2.65	3
64.	Khaleeq Anwar, Sohail Ejaz, **Muhammad Ashraf,** Imran Altaf, Aftab Ahmad Anjum	2013	*Cytotoxic, phytotoxic, and mutagenic appraisal to ascertain toxicological potential of particulate matter emitted from automobiles.*	Environmental Science and Pollution Research 01/2013; ·	Environmental Science and Pollution Research 01/2013; ·	2.65	2
65.	H. M. Khan, **M. Ashraf,** A. S. Hashmi, M. U. D. Ahmad and A. A. Anjum	2013	Papain induced progressive degenerative changes in articular Cartilage of rat femorotibial joint and its histopathological grading	The Journal of Animal & Plant Sciences, ISSN: 1018-7081	23(2): 2013, Page: 350-358	0.638	
66.	Z. U. Rehman, **M. Ashraf**, M. A. Khan, M. A. Jabbar M. Abbas and A. M. Khan	2013	Pharmacokinetics of ketoprofen in healthy buffalo calves in Pakistan	The Journal of Animal & Plant Sciences, ISSN: 1018-7081	23(2): 2013, Page: 416-419	0.638	
67.	Riffat Fatima	2013	*In vitro toxic action potential of anti*	*Environmental Toxicology and Pharmacology*	36 (2013) 501-513	2.05	

	Muhammad Ashraf Sohail Ejazb**,** Muhammad Adil Rasheed, Imran Altaf, Misbah Afzal, Zainab Batool, Umber Saleem, Khaleeq Anwar		*tuberculosis drugs and their combinations*				
68.	Abbas M, Khan AM, Amin S, Riffat S, Ashraf M, Waheed N	2013	Bioequivalence study of montelukast tablets in healthy Pakistani volunteers	Pak J Pharm Sci. 2013 Mar;26(2):255-9	Pak J Pharm Sci. 2013 Mar;26(2):255-9	0.9	
69.	*Humaira Majeed Khan, Muhammad Ashraf, Abu Saeed Hashmi, Mansur-ud-Din Ahmad and Aftab Ahmad Anjum*	2013	*Extraction and Biochemical Characterization of Sulphated Glycosaminoglycans from Chicken Keel Cartilage*	**Pak Vet J**,	**Pak Vet J**, **2013**,**33**(**4**): **471-475**	1.365	
70.	Khan HM, M Ashraf, AS Hashmi, MD Ahmad and AA Anjum,	2014	Relationship between disease activity and circulating level of collagen II C-telopeptide fragments in papain	Pak Vet J, 2014, 34(1): 92-95.	Pak Vet J, 2014, 34(1): 92-95.	1.365	

			induced osteoarthritis rat model.				
71.	*Ejaz S*, *Anwar K*, ***Ashraf M.***	2014	**MRI and neuropathological validations of the involvement of air pollutants in cortical selective neuronal loss.**	Environ Sci Pollut Res Int 2014 Mar;21(5):3351-62	Environ Sci Pollut Res Int 2014 Mar;21(5):3351-62	2.65	
72.	Waqas Ahmad, Sohail Ejaz, Khaleeq Anwar, Muhammad Ashraf	2014	Exploration of the in vitro cytotoxic and antiviral activities of different medicinal plants against infectious bursal disease (IBD) virus	Central European Journal of Biology	05/2014; 9(5). .	0.82	
73.	Sohail Ejaz, Khaleeq Anwar, Robina Taj, Muhammad Ashraf	2014	A novel link between angiogenesis and natural products: Anti-angiogenic effects of Opuntia dillenii	Central European Journal of Biology	03/2014; 9(3). ·	0.82	
74.	Ejaz S, Camer GA, Anwar K, Ashraf M.	2014	Monitoring impacts of air pollution: PIXE analysis and histopathological modalities in evaluating relative risks of elemental contamination.	Ecotoxicology 2014 Apr 28;23(3):357-69. Epub 2014 Jan 28.	Ecotoxicology 2014 Apr 28;23(3):357-69..	; . 2.77	
75.	Umber Saleem, Sohail Ejaz, Muhammad Ashraf, Muhammad Ovais Omer, Imran Iltaf, Zainab Batool, Riffat Fatima, Msbah Afzal	2014	Mutagenic and cytotoxic potential of Endosulfan and Lambda-cyhalothrin — In vitro study describing individual and combined effects of pesticides	Journal of Environmental Sciences. 26 : 1471-1479	Journal of Environmental Sciences. 26 : 1471-1479		
76.	M. Ahmad§, M. Ashraf*, M. S. Khan, A. Javeed*, A. Z. Durrani, I.	2014	CLINICAL AND PATHOLOGICAL EFFECTS OF PARENTERALLY ADMINISTERED CHLOROFORM AND AQUEOUS EXTRACT OF	**The Journal of Animal & Plant Sciences.**	**24(1): 2014: 57-62**	0.638	

	Altaf**, M. U. R. Khan¶, I. Ahmed¶ and M. Avais		*CALOTROPIS PROCERA* IN RABBITS				
77.	Amar NASIR, Muhammad ASHRAF, Abdul SHAKOOR, Muhammad ADIL, Tariq ABBAS, Muhammad KASHIF, Muhammad YOUNUS, Michael Philipp REICHEL	2014	Co-infection of water buffaloes in Punjab, Pakistan, with Neospora caninum and Brucella abortus	**Turk J Vet Anim Sci**	**38: 572-576**	0.316	
78.	Dawood Ahmad Hamdani, Aqeel Javeed, Muhammad Ashraf, Jawad Nazir, Aamir Ghafoor, Imran Altaf and Muhammad Shahbaz yousaf	2014	IN VITRO CYTOTOXIC AND GENOTOXIC EVALUATION TO ASCERTAIN TOXICOLOGICAL POTENTIAL OF KETOPROFEN	African Journal of Pharmacy and Pharmacology.	8(14) : 386-391	0.5	
79.	Dawood Ahmad Hamdani, Aqeel Javeed, Muhammad Ashraf, Jawad Nazir	2014	EVALUATION OF KETOPROFEN EFFECTS ON HUMORAL IMMUNITY AND IMMUNE ORGANS IN MICE	Pakistan Journal of Zoology.	46(6):1673-1678	0.4	

80.	Dawood Ahmad Hamdani, Aqeel Javeed, Muhammad Ashraf, Jawad Nazir	2014	EFFECT OF KETOPROFEN ON IMMUNE CELLS IN MICE	Tropical Journal of Pharmaceutical Research.	13 (11): 1319-1326	0.589	

LIST OF PUBLICATIONS:

National

Sr. No.	Year	Authors Name	Title of Article	Journal	Vol. No. Page. No.	HEC Recognized
1.	1981	Ashraf, M; Iqbal, A; Mian, M.S. and Hashmi, H.A.	Anthelmintic efficacy of Embellia seeds against nematodes of poultry.	J. Anim. Sci., Pakistan,	111: 41-44.	---
2.	Nov. 28-29, 1990	Ashraf, M; Stowe, C.M; Sing, A.K.	Disposition kinetic of Thiamphenicol in calves.	Proc. 3rd. Intl. Cong., PVMA, Islamabad.	pp 16-24.	---
3.	1991.	Kailani, S.R; Ashraf, M; Pervez, K and Hashmi.	Fascioliasis in buffaloes in and around Lahore	PJLR,	Vol. 3-4: 41-43.	---
4.	1991	Ashraf, M; Hashmi, H.A; Ahmad, A; Gul, I.A. and Khalid Pervaiz.	Anthelmintic efficacy of Levamisole against the mature and immature stages of poultry nematodes.	PJLR,	1. (3-4): 48-50.	---
5.	1991	Perveiz, K; Ashraf, M; Hashmi, Khan M.S	Buffaloes and its importance.	PJLR	1(3-4): 56-59.	---
6.	1992	Pervaiz, K; Ashraf, M; Khan, M.S. and Khan, M.A.	A Rinderpest like disease of goats in Punjab. Pakistan	PJLR,	2: 61-65.	---
7.	1994	Butt, M.S; Ashraf, M; Iqbal, J and Khan, M.S.	Efficacy of different ionophorus antibiotics against coccidiosis in poultry,	PJLR.	4: 28-32.	---
8.	1994	Perveiz, K; Ashraf, M, Khan, M.A and Khan M.S.	An epidemic of equine influenza like disease in Lahore, Pakistan.	PJLR	Volume 4(1-2): 69-71.	---
9.	1993	Wazir, M.A; Khan, M.S.; Ashraf, M; Afzal, M and Ahmad, S.	Chemotherapy of fasicoliasis with Nitroxynil and estimation of serum bilirubin and SGOT levels in sheep and goats.	J. Anim. Health and prod.	Vol. 12: 12-13, 71-74.	---
10.	1994	Raza, S.H; Khan, M.S; Jafri, S.A; Ashraf, M. and Pervez, K.	Bioavailability of gentamicin in male buffalo calves.	Pak. J. Sci.,	46 (3-4): 102-105.	HEC Rec (124)
11.	1996	Sindhu, S; Ashraf, M; Ahmad, R; Ullah, K and Pervaiz, K.	Anthelmintic efficacy of Casalpinia crista, Ivermectin, Levamisole and oxfendazole against Toxocara vitulorum in buffalo calves.	Pak. J. Scientific Res.,	48(3-4): 108-111.	HEC Rec (126)
12.	1996	Ahmad, A; Ashraf, M; Ayaz, M. and Pervaiz, K.	Survival assessment of Horses by anion gap in colic.	Pak. J. Sci.,	48(3-4): 88-89.	HEC Rec (124)
13.	1996	Khan, M.A; Ashraf, M; Pervez, K; Hashmi, H.A; and Iqbal, M.	A review of detomidine. "A novel analgesic and sedative alpha-2 agonist" in Vet. Practice	Pak. J. Sci.,	48(1-2): 5-8.	HEC Rec (124)

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15.	1997	Ayaz, M.M; Ahmad, A; Pervaiz, K; Khan, M.S; and Ashraf, M.	Blood serum chemistry (sodium, potassium bicarbonate and chloride) with and without colic.	Pak. Vet. J.	17(4): 302.	Y (139)
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18.	1998	Shafi, K; Ashraf, M; Rehman, H; Rabbani, M; Khan, M.S. and Ali, S.	Drug trials against E. coli isolated from commercial broilers.	Pak. I. Of Scientific Res.,	50(3-4): 19-22.	---
19.	1998	Ayaz, M.M; Ahmed, A; Gorsi, M.I; Pervez, K. and Ashraf, M.	Statistical investigation of sixty cases of Impaction, featus and Strongylus volgaris, equine colic.	Pak. I. of Scientific Res.,	50(3-4): 23-25.	---
20.	1995	Kailani, S.R; Akhtar, M.S. and Ashraf, M	Antifasciolic efficacy of indigenous plant drugs. Kalonji, Shahterah and Karanjna in buffaloes.	Pak. J. of Pharmaceuti cal Sci.	8(1): 17-27.	Y (139)
21.	1999	Ashraf, M; Dilshad, H; Khan, M.S; Pervez, K; Ahmad, I.G and Khan, M.A.	Efficacy of Albendazole against fascioliasis and its effects on SGOT, SGPT and serum bilirubin in buffaloes.	Pak. J. Scientific Res.	51(3-4): 118-120.	HEC Rec (126)
22.	1999	Ayaz, M.M; Ahmad, A. Aslam, M; Pervez, K and Ashraf, M.	A study of serum electrolytes (sodium, Potassium, bicarbonate, chloride) and PCV in horses with colic.	Pak. J. Scientific Res.,	51(3-4): 121-123.	HEC Rec (126)
23.	1999	Rehman, A; Khan, M.S; Raza, S.H; Ashraf, M. and Mian, M.S.	Study of coccidiosis in different age groups and estimation of haemoglobin, PCV and total proteins in camels slaughtered in Lahore during hot and humid climate.	Pak. J. Sci.,	51(3-4): 88-92	HEC Rec (124)
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25.	2000	Ashraf, M; Khan, M.A. and Jafri, S.A.	Drug interaction and drug incompatibilities.	2nd National Conf. Poultry and Vet. Medicine	pp 24-27.	---

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27.	2000	Khan, R.A; Pervez, K; Khan, M.S; Altaf, M.A. Ashraf, M. and Ahmed, I.G.	Efficacy of various ionophorus antibiotics against coccidiosis in quails.	Pak. J. Sci.,	52(3-4): 65-67.	HEC Rec (124)
28.	2001	Ahmad, I; Pervez, K; Ashraf, M; Rafiq, A. and Ahmad, I.G.	A serological and coprological study of Paramphistomiasis in buffaloes.	Pak. J. Scientific Res.,	53(1-2): 23-25.	HEC Rec (126)
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30.	2002	Ashraf, M., Wariach F.N., Ahmad, I.G. and Pervez, K.	Chemotherapy of gastro-intestinal nematodes in common peafowl (Pavo cristatus).	Pak. Vet. J.,	22(2): 91-93.	Y (139)
31.	2001	Atif, F.A., Khan, M.A., Ashraf, M.	Evaluation of liver functions associated with varying degrees of hepatectomy in dogs.	Pak. J. Sci. Res.,	53(3-4): 67 –70.	HEC Rec (126)
32.	2002	Ashraf, M.; Abdullah, MA; Khan MA and Hashmi HA	Comparative Anthelmintic Efficacy of moxidectin, Ivermectin and Albendazole against G.I.T. Nematodes of sheep under field conditions.	Pak. J. of science	54(1-2): 50-52.	HEC Rec (124)
33.	2002	Ashraf, M; Arif, Q; and Khan, K.A.	Efficacy of gentamicin after intrayolk administration in experimentally induced omphalitis in broiler chicks.	Pak. Vet. J.	22(4): 197-198.	Y (139)
34.	2003	Umer, M; Ashraf, M; Pervaiz, K; and Hashmi H.A.	Comparative efficacy of oxyclozanide, Rafoxanide and Bithionol Sulphoxide against Paramphistomiasis in buffaloes.	Pak. Vet. J.	23(1): 4-6.	Y (139)
35.	2003	Khan, M. A, Ashraf, M. Pervez, K. Hashmi, H. A. and Mahmood A. K.	Effect of Detomidine on Blood Chemistry and Electrolyte Profile in Buffalo Calves.	In. J. Agri.Biol.	Vol. 5(3): 308-310	HEC Rec (42)
36.	2003	Khan M. A., M. Ashraf, K. Pervez, H. A. Hashmi and	Effect of Detomidine with Chloral Hydrate Anaesthesia in Horses.	J. Agri.Biol.	Vol. 5(3): 316-321	---

		A. K Mahmood				
37.	2003	Ali, Rahat., M. Ashraf and S. M. H. Bukhari	Effect of low level feeding of tylosin and zinc bacitracin on the weight gain and immunity of broiler chicks vaccinated against newcastle disease virus.	J. Biological Sciences.	3 (12): 1095-1100.	HEC Red (56)
38.	2003	Omer, M.O., M. Ashraf and M. Azeem. .	Effect of herbal diuretics on serum sodium and serum potassium in the broilers.	Pak. J. of Science.	55 (3-4): 85-87.	HEC Rec (124)
39.	2003	Ramzan M., M. Ashraf, N. Haider and K. Pervaiz	Effect of glucocorticoids along with antimicrobial drugs against haemorrhagic septicemia in buffalo calves under field conditions.	Pak. J. of Science.	55(34):102-106.	HEC Rec (124)
40.	2004	Sohail Ejaz, Muhammad Ashraf, Muhammad Athar Khan, and Masood Rabbani.	Comparative efficacy of yucca schidigera extract and frusemide in ascites of broiler chicks, under field conditions.	Journal of Research Science.	Vol. 15, pp. 447-453	
41.	2004	Khan. M.A, M. Ashraf, K. Perviz, H.A. Hashmi, A.K. Mahmood and H.B. Rashid	Preanesthetic use of Detomidine in dogs during major surgical interventions.	Pak. J. Sci. Res.	56(1-2):15-19.	HEC Rec (124)
42.	2004	Khan, M. A, M. Ashraf, K. Perviz, A.K. Mahmood. H.B.Rashid and M. Chaudhary	Comparative effects of detomidine and xylazine as sedative and analgesic agents in small ruminants.	Pak. Vet. J.	24 (2): 62-69.	Y (139)
43.	2005	Javeed, A., Ashraf, M, Omer, M. O. and Ghafoor, A.	Effect of Diclofenac Sodium on experimentally induced Aseptic Arthritis in Equines	Pakistan Journal of Science,	57 (3-4): 73-76.	HEC Rec (124)
44.	2005	Bashir, S., M.A. Khan, M. Ashraf and I. Khan,	Effect of different antimicrobials on various blood parameters of clinically normal and febrile sheep,	Proceeding of 14th Asian Commonwealth Veterinary Association Conference held from 21 – 23 September, 2005 at PC, Lahore,	P-93.	---
45.	2005	Ramzan, M., M. Ashraf and M. Younas,	Toxicity associated with Diclofenac in Avian species,	Proceeding of 14th Asian Commonwealth Veterinary	P-101.	---

				Association Conference held from 21 – 23 September, 2005 at PC, Lahore,		
46.	2005	Shahzad, K., M. Ashraf, M. O. Over and M.A. Khan,	Effect of xylazine as a preanaesthetic medication with chloral hydrate induced anaesthesia in equines,	Proceeding of 14th Asian Commonwealth Veterinary Association Conference held from 21 – 23 September, 2005 at PC, Lahore,	Page-111.	---
47.	2005	Durrani, U. F., M. Ashraf, Khalid, A.	Comparative efficacy of detomidine and detomidine plus ketamine cocktail in quails.	Pak. Vet. J.	25 (4): 197-199.	Y (139)
48.	2005	Darrani, U.F; M, Ashraf, M.A. Khan A, Khalid, M. O. Omer.	Role of Alpha-2 adrenocepter agonists as sedative and analgesic in budgerigars.	Pak. J. of Science.	57. (3-2):	HEC Rec (124)
49.	2006	Majeed, H. Ashraf, M. Ahmad, B.	Effect of Betaxolol and latanoprost alone and in combination on intraocular pressure in rabbit eyes	Journal of scientific Research, University of the Punjab (2006).		---
50.	2007	Muhamood, K.T, Ashraf, M. Ramzan, M.	Screening of different NSAIDS in search of alternate to Diclofenac.	Proceeding National Seminar "Drug related Problems" Lahore College for Women University Lahore. March, 08, 2007.	Pp-48-49.	---
51.	2008	Ali, H.N;M.S.Khan; M. Ashraf; and Z.U. Rehman	Comparative efficacy of various anthelmintics against gestrointestinal nematodes in sheep in Tehsil Okara.	PJSR	60 (1-2);1-4	HEC Rec (126)
52.	2008	Durrani, A.Z; M.Ahmad;	Prevelance of Theileriosis in buffaloes and detection	J.Anim.pl. Sc	18(2-30);57-60	(Z)

		M.Ashraf; M.S.Kahan; J.A Khan; N.Kamal;and N. Mumtaz	through blood smear examination and polymerase chain reaction test in District Lahore.			
53.	2008	Mahmood K.T.and Ashraf M.	Eco- Damage by the Pharmaceutical Product Diclofenac A Reciew	Pakistan Journal of Science	60(3-4): 72-77	HEC Rec (124)
54.	2008	Mahmood K.T and Ashraf M.	A simple, Specific, and Precise HPLC Method for the Measurement of Meloxicam in Biological fluids.	Pakistan Journal of Sciences	60(3-4):85-89.	HEC Rec (124)
55.	2010	Mahmood, K. T., M. Ashraf	Absolute Bioavailability of Oral Meloxicam In Healthy Dogs	The Journal of Animal & Plant Sciences,	20(3), 2010, Page: 193-196	"Y" Category
56.	2010	Mahmood, K. T., M. Ashraf	Pharmacokinetics of ecofriendly meloxicam in healthy horses	Pak.J.Sci.	62(3): 198-201	HEC Rec (124)
57.	2011	Bilal Ashiq Muhammad Usman Muhammad Ashraf Ovais Omer Muhammad Imran Khokhar and Syed Saeed-ul-Hassan	COMPARATIVE PHARMACOKINETICS OF METRONIDAZOLE IN HEALTHY VOLUNTEERS AND IN PATIENTS SUFFERING FROM AMOEBIASIS	*Pak. J. Pharm.*	*24 (1 & 2) 41-46, 2011*	HEC Rec
58.	2014	Sadia Amin, Farah Abid, Aqeel Javeed, Muhammad Ashraf, Amjad Riaz, Muhammad Hassan Mushtaq, Aamir Ghafoor, Muhammad Anees, Muhammad Yaqoob	A CROSS SECTIONAL STUDY ON SELF-MEDICATION WITH ANALGESICS AMONG PHARMACY STUDENTS OF LAHORE, PAKISTAN	*Sci.Int.(Lahore)*	*26(3),1181-1185*	HEC Rec
59.	2014	Sher Muhammad Zaman, AqeelJaveed, Aamir Ghafoor, Muhammad Ashraf, Muzammal Hussain, Muhammad Hassan Mushtaq, Muhammad Anees,Muhammad Yaqoob	PHOSPHORYLATION OF THE P65 SUBUNIT OF NUCLEAR FACTOR KAPPA B (NF-κB) BY USING A CHEMICAL SELECTED FROM INDIAN PLANT ANTICANCER COMPOUNDS DATABASE.	*Sci.Int(Lahore)*	*26(3),1203-1206*	HEC Rec
60.	2014	Hazrat Ali, Amjad Riaz, Aamir Ghafoor, Aqeel Javeed, Muhammad Ashraf and Abdul Sattar	Antioxidative Protection by Strawberry and Green Tea Extracts During Cryopreservation of Sahiwal Bull Semen	Pak. j. life soc. Sci. (2014),	. (2014), 12(2): 97- 100	

BOOKS

1. General Pharmacology and Toxicology (Practical Manual) by Dr. Muhammad Ashraf and M. Ovais Omer, published by Maktaba-e-Danishwaran, 8-Al Fazal Market, Urdu Bazar, Lahore (2001).

2. Systemic Pharmacology (Practical Manual) by Dr. Muhammad Ashraf and Muhammad Ovais Omer, published by Maktaba-e-Danishwaran, 8-Al Fazal Market, Urdu Bazar, Lahore (2001).

3. Anthelmintic efficacy of phenothizine, piperazine, Levamisole and babarang against mature and immature stages of Ascaridia galli and Heterakis gallinarum in the chickens. M.Sc thesis, 1980. Muhammad Ashraf

4. The Pharmacokinetics and the mechanism of renal excretion of thiamphenicol in cattle. Ph.D Thesis, 1989. Muhammad Ashraf

5. Preventive medicine 1994 University Book Corner, Lahore

6. Textbook of Pharmacology for livestock Assistant Diploma Course (2008) published by ICE&E UVAS, Lahore. Muhammad Adil Rasheed and Muhammad Ashraf

7. Abstract book of National Seminar and Workshop on Environmental Toxicology and Health March 8-9 2011. Muhammad Ashraf and Sohail Ejaz

8. Comparative Pharmacokinetics of Levofloxacin in healthy volunteers and in patients suffering from typhoid fever. VDM Verlog Dr. Muller ISBN: 978-3-639-24818-0 Muhammad Usman, Muhammad Ashraf, Bilal Ashiq

9. Abstract book of International Conference of Toxicology January 26-27, 2012 Muhammad Ashraf and Sohail Ejaz

10. Evaluation of antiviral and cytotoxic activity of extracts of medicinal plants against infectious bursal disease virus. Publisher: LAP Lambert Academic Publishing GmbH & Co KG Dudweiler Landstr. 99,66123 Saarbrücken Germany ISBN: 978-3-8465-2192-2 Waqas Ahmad. Muhammad Ashraf , Aqeel Javeed.

11. Antiviral properties of medicinal plants against PPR and FMD viruses. Publisher:LAP LAMBERT Academic Publishing GmbH & Co KG Dudweiler Landstr. 99,66123 Saarbrücken Germany. ISBN: 978-3-8465-1010-0 Aqeel Javeed, Abid Ali, Muhammad Ashraf

12. Manual of Experimental Pharmacology. Authors: Prof. Dr. Muhammad Ashraf, Dr.Muhammad Adil Rasheed, Dr. Qamar Niaz Edition: 2012-2013 Publisher: Kashif Publications, Lahore.

13. Manual of Central Nervous System Pharmacology. Authors: Prof. Dr. Muhammad Ashraf, Dr. Aqeel Javeed Edition: 2012-2013.

14. Abstract book of International Conference of Pharmaceutical Toxicology April 25-26, 2013 Muhammad Ashraf, Sohail Ejaz, M,Adil Rasheed, Aqeel Javeed.

15. Abstract book of International livestock, dairy, & poultry congress (ILDPC) April 17-18, 2013. Organized by PVMA at Lahore. Edited by M. Ashraf, M.A.Rasheed, K.M.Shouq.

Conferences / Seminars / Workshops

Conferences Organized

1. Member finance of Organizing Committee of "National Seminar on diseases of sheep and goats", March 28, 1996 at CVS., Lahore
2. Chief organizer of seven day workshop on "Pharmacokinetics" CVS, Lahore in June, 2001.
3. Chief organizer of a poster competition for the society of Veterinary Pharmacology 2002.
4. Chief organizer of a Workshop Ethical & Scientific Procedures for Laboratory Animals – Course for Research Scientists from June 22 to July 04, 2009, University of Veterinary & Animal Sciences, Lahore in collaboration with University of Cambridge, Cambridge United Kingdom.
5. Chief organizer of a one week hands, on training course on (Modern Techniques in Angiogenesis and Toxicology) June 01 to 07, 2010 in collaboration with University of Cambridge, Cambridge United Kingdom.
6. Chief organizer of a National Seminar & Workshop on Environmental Toxicology & Health (March 8-10, 2011) in collaboration with University of Cambridge, Cambridge United Kingdom and HEC.
7. Chief organizer of the seminar, "Use of Endnote software for citation and referencing in research" in seminar room UVAS, Lahore Januar29, 2011.
8. Chief organizer of the workshop "Citation and referencing in research" UVAS, Lahore November 3, 2011. Resource parson in the session "Plagiarism"
9. Chief organizer of International conference on Toxicology (January 26-27, 2012) in collaboration with University of Cambridge, Cambridge United Kingdom and HEC.
10. Chief organizer International conference on Pharmaceutical Toxicology (April 25-26, 2013) in collaboration with University of Cambridge, UK and HEC-Pakistan.
11. Chief organizer of "Refresher course for Teachers of Anatomy and Histology" from July 15-26, 2013. Organized by department of Anatomy and Histology UVAS, Lahore.

CONFERENCES ATTENDED

Conferences Attended (where presentations were made)

CONFERENCES				
S.NO.	**PERIOD**		**TITLE**	**PLACE & ORGANIZER**
	FROM	**TO**		
1	Nov., 16-17, 1987		Pharmacokinetics and bioavailability of Thiamphenicol in Calves	68th Annual meeting of the conference of research workers in animal diseases. Chicago, Illinois, U.S.A.
2	Nov., 14-15, 1988		Effect of cimetidine on the pharmacokinetics of Thiamphenicol	69th annual meeting of the conference of research workers in animal diseases, Chicago, Illinois, U.S.A
3	Multan, 1982		Efficacy of Phenothiazine, piperazine, Levamisole and babarang against mature and immature stages of A. galli and H. gallinarum in chickens	All Pakistan Science Conference, held at Multan, 1982.
4	Nov. 28-29, 1990		Disposition kinetics of thiamphenicol in calves.	3rd International congress PVMA Islamabad
5	1993.		Efficacy of Fenbendazole and oxfendazole against nematode parasites of wild ruminants in captivity	13th Pakistan Congress, Zoology, 1993.
6	Jan., 19-20, 1995		Epidemiological aspects and treatment trials of haemoglobinuria in buffaloes and cows in district Vehari	National seminar on epidemiology of livestock and poultry diseases. CVS, Lahore
7	Jan.17-19 1996.		Effect of routine deworming on the development of resistance against G.I.T. nematodes in sheep	31st All Pakistan Science Conference held at CVS., Lahore
8	March 28, 1996		Efficacy of triclabendazole against fascioliasis in sheep and goats under field conditions	National Seminar on the Diseases of sheep and goats held at CVS., Lahore
9	1997		Comparative efficacy of Ivermectin and coumaphos against ectoparasites in equine.	17th Pakistan Conference of Zoology,
10	August 1997		Effect of experimentally induced coccidiosis on some blood parameters and its treatment with three new anticoccidial drugs in broilers.	9th International Congress on animal Hygiene Helsinki, Finland,

11	March 26, 1998	Drug trials on Escherichia coli isolated from broilers.	International seminar on microbial diseases of livestock and poultry at CVS., Lahore
12	March 20-21, 1999.	Anthelmintic efficacy of Melia azedarach linn. Against gastrointestinal nematodes in sheep. March 20-21, 1999, pp 36-39.	PAS Forum/PVMA agro-livestock, Conference, Lahore.
13	March 10-11, 2000.	Drug interaction and drug incompatibilities.	2nd National Conference on Poultry and Veterinary Medicine. PC Lahore.
14	2002	Anthelmintic efficacy of moxidectin, Ivermectin and Levamisole against T. vitulorum in buffalo calves.	First National conference of biology, G.C. Lahore. Biological Society of Pakistan, 2002.
15	December 25-28, 2002	Effect of Ivermectin on Liver at therapeutic & higher doses in healthy and diseased dogs.	33rd All Pakistan Science Conference, University of Agriculture, Faisalabad.
16	March 19-20 2003	Effect of low level feeding of Tylosin and zinc Bacitracin on the growth performance and immune response of broiler chicks.	International Animal Nutrition Conference 2003 held on 19-20 March at University of Veterinary & Animal Sciences, Lahore.
17	29th May 2004	Comparative efficacy of oxfendazole, albendazole and ivermectin against gastrointestinal tract nematodes in horses.	Paracon 2004 (Recent advances in parasitology) held on 29th May 2004 UVAS, Lahore.
18	January 24, 2004	Sedative and analgesic effects of detomidine in experimentally induced equine colic.	National seminar on diseases of livestock, UVAS, Lahore
19	September 21-23, 2005	Toxicity associated with Diclofenac in Avian species. 14th Asian Commonwealth Veterinary Association Conference held from 21 – 23 September, 2005 at PC, Lahore, P-101.	14th Asian Commonwealth Veterinary Association Conference at PC, Lahore,
20	20th to 22nd February, 2006,	Efficacy of a newly developed herbal diuretic mixture in broiler chickens.	34th Pakistan (SAARC) Countries Science Conference, UVAS, Lahore-Pakistan. Pakistan Association for the Advancement of Science
21	March 27-28, 2007.	Tissue residue: A public health concern.	International congress on Livestock and Poultry held at Awan-i-Iqbal Lahore

22	March, 08, 2007.	Screening of different NSAIDS in search of alternate to Diclofenac.	National Seminar "Drug related Problems" Lahore College for Women University Lahore.
23	15th to 16th October, 2008	Antiviral activity of Various Medicinal plants against avian Influenza virus type-H7.	The 1st International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses, held from 15th to 16th October, 2008, Petra Marriot Hotel Petra-Jordan.
24	21-23 May, 2008	In Vitro Antibacterial Effect of Opuntia dillenii and Zingiber officinale Extracts.	Ist International Seminar on Medicinal Plants Isolation & Applications (ISMP-2008), LCWU, Lahore.
25	October 4-5, 2008	Toxicity of flunixin meglumen in broiler chicks.	1st International congress of Veterinary Pharmacology and pharmaceutical science. Tehran.
26	December 20-23, 2008.	Toxicity of Diclofenac in Avian Species,	35th All Pakistan Science Conference Karachi, Pakistan.
27	October 13, 2010	Efficacy of buparvaquone and oxytetracycline against theileriosis in cattle	National Conference on the Strategies to improve Red Meat Production in Pakistan. Organized by FVS, BZU, Multan.
28	March 8--9, 2011.	Environmental pollutants and health risks.	National Seminar on Environmental Toxicology and Health. UVAS, Lahore
29	28th April to 1st May 2011.	Extraction and quantification of Chondroitin Sulphate from Chicken Keel Cartilage.	16th International Pharmacy Conference & Exhibition Lahore, Pakistan. IPCE 2011
30	July 7-9, 2011	In vitro Studies on the Antibacterial Potential of Ocimum basilicum L. (Sweet Basil) and Glycyrrhiza Glabra (Licorice).	PAS-Forum National Conference. Peshawar University (Summer Compus) Bara Gali, Abbottabad
31	21st-23rd November, 2011.	Amoxicillin bioequivalence studies of veterinary preparation in Pakistan	International workshop on dairy science park, Khyber Pakhtunkhwa Agricultural University Peshawar,

			Pakistan.
32	April, 2011	Polarity based solvents extraction of Opuntia dillenii and Zingiber officinale for in vitro antimicrobial activities.	Second international congress of food hygiene in Tehran.
33	Dec.13-14, 2011.	Antiviral and cytotoxic properties of Silybum marianum, Chenopodium album and Nigella sativa against PPR and FMD virus in vitro.	Second international congress of Veterinary Pharmacology (ICVP) Tehran, Iran.
34	January 26-27, 2012.	Effect of particulate matter of two stroke and four stroke autorickshaw on angiogenesis	International Conference of Toxicology. UVAS, Lahore
35	March 6-8, 2012.	Effect of tannery effluent waste water on blood vessel proliferation.	32nd Pakistan Congress of Zoology (International) Government College University, Lahore.
36	September 6-8, 2012.	Immunological Investigation to study neuronal loss and microglial activations influenced by tannery effluent waste water in rat brain.	International Conference on Research Methodology. New trends and integrative approach from bench to bedside. University College of Pharmacy, University of the Punjab, Allama Iqbal Campus, Lahore 54000 Pakistan.
37	April 13, 2013	Toxicological Potential of Pharmaceutical effluent.	Workshop on Evaluation of Mutagenic and Genotoxic Potential of Different Pharmaceutical and Food Additives. QOL, UVAS, Lahore
38	April 17-18, 2013	International livestock, dairy, & poultry congress (ILDPC).	Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore
39	April 24, 2013	Neurotoxicity induced by Mycotoxins / Mycotoxins and Health hazards	International Conference on Pharmaceutics and Neuropharmacology at Hajvery university, Lahore.
40	April 25-26, 2013	Hazards of Pharmaceutical wastes	International Conference on Pharmaceutical Toxicology, Organized by Department of Pharmacology & Toxicology, UVAS, Lahore.

41	November 18-20, 2013	*IN-VIVO* ANTI-THEILERIAL ACTIVITY OF MEDICINAL PLANTS IN COMPARISON TO BUTALEX *Ashraf M., Ahmad M., Khan MS., Javeed A. & Rasheed MA.*	*Proceedings of* 2nd INTERNATIONAL WORKSHOP ON DAIRY SCIENCE PARK Venue: The University of Agriculture, Peshawar-25120, Pakistan

ABSTRACTS PUBLISHED

1. Pharmacokinetics and bioavailability of Thiamphenicol in Calves. Abstract of papers at the 68th Annual meeting of the conference of research workers in animal diseases. Chicago, Illinois, U.S.A., Nov., 16-17, 1987, pp 27.

2. Effect of cimetidine on the pharmacokinetics of Thiamphenicol. Abstract of papers at the 69th annual meeting of the conference of research workers in animal diseases, Chicago, Illinois, U.S.A. Nov., 14-15, 1988, pp 43.

3. Efficacy of Phenothiazine, piperazine, Levamisole and babarang against mature and immature stages of A. galli and H. gallinarum in chickens. All Pakistan Science Conference, held at Multan, 1982.

4. Disposition kinetics of thiamphenicol in calves. Proceedings of 3rd international congress PVMA Islamabad, Nov. 28-29, 1990. pp 16-24.

5. Efficacy of Fenbendazole and oxfendazole against nematode parasites of wild ruminants in captivity. Proceeding of 13th Pakistan Congress, Zoology, 1993.

6. Anthelmintics in Veterinary practice. Seminar Organized by Vital Mark Laboratories, 1993.

7. A profile of the cases of small ruminants presented to outdoor hospital, C.V.S., Lahore during the year, 1993-94. National seminar on epidemiology of livestock and poultry diseases. Jan., 19-20, 1995. Abst. No.5, pp 3.

8. Epidemiological aspects and treatment trials on blackquarter disease in D.I. Khan district. National seminar on epidemiology of livestock and poultry diseases. Jan. 19-20, 1995. Abst. No.15, pp 8.

9. Epidemiological aspects and treatment trials of haemoglobinuria in buffaloes and cows in district Vehari. National seminar on epidemiology of livestock and poultry diseases. Jan 19-20, 1995. Abst. No.16, pp 9.

10. Epidemiological, haematological and serological investigations of foot and mouth disease in border area of Lahore district. National seminar on epidemiology of livestock and poultry diseases. Jan., 19-20, 1995. Abst. No.20, pp 12.

11. The effects of induced coccidiosis on growth and blood parameters in commercial quails (Coturnix Coturnix Japonica). 31st All Pakistan Science Conference held at CVS., Lahore on 17-19 Jan., 1996. Abst. Pp 2.

12. Effect of milk fever on serum creatinine phosphokinase (C.P.K.) and lactic dehydrogenase (L.D.H.) in cows and buffaloes. 31st All Pakistan Science Conference held at CVS., Lahore on 17-19 Jan., 1996. Abst. Pp 27.

13. Effect of routine deworming on the development of resistance against G.I.T. nematodes in sheep. 31st All Pakistan Science Conference held at CVS., Lahore on 17-19 Jan., 1996. Abst. Pp 28.

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114. Toxicological Potential of Pharmaceutical effluent. In workshop on Evaluation of Mutagenic and Genotoxic Potential of Different Pharmaceutical and Food Additives. QOL, UVAS, Lahore April 13, 2013

115. Neurotoxicity induced by Mycotoxins / Mycotoxins and Health hazards. International Conference on Pharmaceutics and Neuropharmacology at Hajvery university, Lahore. April 24, 2013

116. Antibiotic misuse by vets in fuelling rise of superbugs. Muhammad Ashraf and Muhammad Adil Rasheed. International livestock, dairy, & poultry congress (ILDPC) April 17-18, 2013. Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore. Abstract book pp 2

117. In vitro evaluation of anti-viral and cytotoxic activity of Ginseng root, leaves of tulsi and Aloe vera against PPR virus. Misbah Afzal, M. Ashraf, M. Adil Rasheed, Aqeel Javeed, Imran Altaf. International livestock, dairy, & poultry congress (ILDPC) April 17-18, 2013. Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore. Abstract book pp 4

118. Comparative evaluation of mutagenicity and cytotoxicity of endosulfan, Lambda-Cyhalothrin, Alpha-Cypermethrin and Imidacloprid. Umber Saleem, M. Ashraf, Aqeel Javeed, M. Adil Rasheed, Imran Altaf. International livestock, dairy, & poultry congress (ILDPC) April 17-18, 2013. Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore. Abstract book pp 8

119. Emissions of Auto-rickshaws and angiogenesis. Khaleeq Anwar, Muhammad Ashraf, Aqeel Javeed, Aftab Ahmad Anjum. 18th International Pharmacy Conference and Exhibition (IPCE 2013). 30th October to 2nd November 2013, Lahore-Pakistan.

120. Histopathological lesions caused by chronic consumption of chromium loaded effluents. Lubna Shakir, Muhammad Ashraf, Sohail Ejaz, Aqeel Javeed, Aftab Ahmad Anjum. 18th International Pharmacy Conference and Exhibition (IPCE 2013). 30th October to 2nd November 2013, Lahore-Pakistan.

121. *IN-VIVO* ANTI-THEILERIAL ACTIVITY OF MEDICINAL PLANTS IN COMPARISON TO BUTALEX *Ashraf M., Ahmad M., Khan MS., Javeed A. & Rasheed MA. Proceedings of* 2nd INTERNATIONAL WORKSHOP ON DAIRY SCIENCE PARK (November 18-20, 2013) Venue: The University of Agriculture, Peshawar-25120, Pakistan

122. Comparative efficacy of glycosaminoglycans extracted from chicken keel cartilage and fish in relation to clinical score reduction and ctx-ii estimation in an induced osteoarthritis albino rat model.
" International conference and Expo 14 " Recent developments in human nutrition " March 19-20. PC, Lahore.

INVITED LECTURES, TALKS, POPULAR ARTICLES

1. Diarrhea in calves and its prevention
Radio talk – Radio Pakistan Lahore. (1993).

2. Mastitis in animals and its prevention
Radio talk – Radio Pakistan Lahore. (1993)

3. Tick fever in animals
Radio talk – Radio Pakistan Lahore (1996).

4. Neonatal diarrhea complex in calves.
Radio talk – Radio Pakistan Lahore (1996).

5. Mastitis in cattle and buffaloes.
Radio talk – Radio Pakistan Lahore (1997).

6. Invited lecture on "Anthelmintics in Veterinary Practice".
Presentation in the Seminar organized by vital
mark laboratories in Lahore.

7. Neonatal diarrhea complex.
Radio talk – Radio Pakistan (1998).

8. Haemorrhajic septacemia – A curable disease.
Urdu article published in "Hamaray Muvaishi"
A quarterly published magazine in Urdu from Lahore.
April – June (1999) pp 29-30.

9. Invited lecture on "Rabies in domestic animals".
Popular talk – District Council Gujranwala, Feb (1999).

10. Invited lecture on "Use of anthelmintics in Vet. Practice".
Popular talk presented in Holiday Inn Hotel to professionals (2000).

11. Fluoride poisoning in animals.
Article "The Nation" on Sunday, August 13 (2000).

12. Foot and Mouth Disease.
Article "The Nation" March 13, 2001.

13. Metabolism and medicine.
Article "The Nation" August 11. 2002.

14. Lead poisoning in animals.
Article "AVN Agro Vety. News" August, 2004.

15. Invited Presentation on "Declofenic Toxicity and Vulture crisis", Standing Committee of Environment, Parliament House Islamabad. March, 2005

16. Invited lecture on "Rational use of drugs", International Congress of Poultry and Livestock. Awan-e-Iabal, Lahore. February, 2005.

17. Global Livestock Challenges and Science,
Article "News and Views", February, 2006.

18. Use of Anthelmintics in Vet. Practice. Formers meeting at District Narrowal, April, 2007.

19. Invited Presentation on "Declofenic related Toxicity and Vulture crisis", at Avari Hotel, Lahore on " World Environment Day celebrations". June 5, 2007

20. Melaxicam: An ecofriendly alternative to Diclofenac in Veterinary Practice
"The Nation" Sunday Plus October, 19-2008.

21. University of Veterinary & Animal Sciences, documentary TV channel V.
"Use of drugs in Animals". November, 2008. TV Channel V.

22. Vultures a vanishing breed. (National Post), July 5th, 2009.

23. Life Saving natural scavengers, (The Nation), Sunday Plus July, 12. 2009

24. Invited lecture on "Effective Teaching" held on September 29, 2010 during "Professional Competency Enhancement Program for Teachers-11" from September 28 to October 1, 2010 organized by Center for Educational Policy and Administration, UVAS Lahore.

25. Invited lecture on "Research Methodology" held on October 2, 2010 during "Student Orientation Program" held from September 28 to October 8, 2010 organized by Directorate of Advanced Studies, UVAS Lahore.

26. Invited lecture on "Plants as a Source of Drugs " held on October 18, 2010 during "Workshop on use of tissue culture technique to study antiviral properties of plants" held

from October 14 to October18, 2010 organized by Quality Operation Laboratory, UVAS Lahore.

27. Participation in "National Workshop on Flood Disaster Management of Human & Livestock" 25th August, 2010, in Syndicate Room UVAS, Lahore.

28. Ivermectin: Role in angiogenesis. (2011). Health Notes. Daily ""The Nation" (English Newspaper). Ovais and Ashraf

29. Invited lecture on "Plagiarism and its professional consequences". Presentation to students of applied Microbiology March 8, 2011.

30. Ketoprofen a safe and effective drug. The Nation (2011). By Zaka- Ur- Rehman and M. Ashraf

31. Chief organizer of the seminar, "Use of Endnote software for citation and referencing in research" in seminar room UVAS, Lahore Januar29, 2011.

32. Chief organizer of the workshop "Citation and referencing in research" UVAS, Lahore November 3, 2011. Resource parson in the session "Plagiarism"

33. Invited lecture on "Antimicrobial Resistance" at the celebration of world veterinary day, April 28, 2012

34. Invited lecture on "Toxicological Potential of Pharmaceutical effluent". In workshop on Evaluation of Mutagenic and Genotoxic Potential of Different Pharmaceutical and Food Additives. QOL, UVAS, Lahore April 13, 2013

35. Invited lecture on "Antibiotic misuse by Vets in fuelling rise of superbugs". International livestock, dairy, & poultry congress (ILDPC) April 17-18, 2013. Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore.

36. Invited lecture on "Neurotoxicity induced by Mycotoxins" International Conference on Pharmaceutics and Neuropharmacology at Hajvery university, Lahore. April 24, 2013

37. Invited lecture on "Antimicrobial Chemotherapy and Superbugs" International livestock, dairy, & poultry congress (ILDPC) April 11-12, 2014. Organized by PVMA at Aiwan -e- Iqbal Complex Egerton Road, Lahore.

COURSES TAUGHT IN YEAR 2012-13

Sr. No.	Course Number	Course Title	Credit Hours	Theory/Practical	Morning/Evening
SEMESTER-I					
01	PHRM-1006	Pharmacology of Autonomic Nervous system	4(3-1)	Theory/Practical	Morning/Evening
02	PHAR-3505	Pharmacology and Therapeutics-III	3	Theory	Morning/Evening
03	PHRM-501	Systemic Pharmacology and Therapeutics	4(3-1)	Theory	Morning/Evening
SEMESTER-II					
05	PHRM-1010	Chemotherapy	4(3-1)	Theory	Morning/Evening
06	PHRM-1008	Renal and Reproductive Pharmacology	4(3-1)	Theory	Morning/Evening
07	PHRM-1023	Mycotoxin and Zootoxins	3(3-1)	Theory/Practical	Morning/Evening
SEMESTER-III					
08	PHRM-2401	Systemic Veterinary Pharmacology and therapeutics	3(2-1)	Theory	Morning
09	PHRM-501	Systemic Pharmacology and Therapeutics	4(3-1)	Theory	Morning