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PERSONAL DETAILS

Nationality : **Indian**
Date of Birth : **28th December, 1975**
Place of Birth : **Lakhimpur (Uttar Pradesh)**
Father's Name : **Mr. S. R. Verma**
Languages Known : **Hindi, English**
Marital Status : **Married**
Spouses : **Daughter – Anvi Verma**
Son - Pratyush Verma

PROFESSIONAL QUALIFICATIONS

- **Doctor of Philosophy (PhD):** in Veterinary Pharmacology and Toxicology from Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu in 2015. Title of Thesis: **“Bioprospection of *Alstonia scholaris* & *Calendula officinalis* for antioxidant, antidiabetic, hepato & nephro protective effects”**.
- **National Eligibility Test (NET)** – Qualified in Veterinary Pharmacology and Toxicology (Veterinary Science) - conducted by ASRB, Indian Council of Agriculture Research, New Delhi, June 2004.
- **Master of Veterinary Science (M. V. Sc)** in Veterinary Pharmacology and Toxicology from Division of Pharmacology and Toxicology, Indian Veterinary Research Institute Izatnagar – INDIA with OGPA 8.23 out of 10.00 Title of Thesis: **“Studies on the effect of different neurotransmitters on spontaneous muscular activity of *Gastrothylax crumenifer*, a rumen amphistome”**
- **Bachelor of Veterinary Science & Animal Husbandry (B. V. Sc. & A.H.)** from College of Veterinary & Animal Sciences, G. B. Pant University of Agricultural Sciences and Technology Pantnagar (December 2001 including six months internship training programme) with OGPA 4 .01 out of 5.00.

AWARD AND HONOURS

- Recipient of **Young Scientist Award -2011** awarded by Honorable, Governor of J&K State during the 1st Agricultural Science Congress organized by SKUAST Kashmir in collaboration with Department of Science and Technology, INDIA. The Award contains a memento, certificate along with a check of Rs. 10,000/-

- Recipient of **Junior Research Fellowship (JRF)** awarded by Indian Council of Agriculture & Research, (ICAR) New Delhi during Master in Veterinary Sciences Programme (2001-2003).
- Awarded **Associate Fellowship** of Indian Society of Veterinary Pharmacology and Toxicology (ISVPT-2019) during National Symposium held at College of Veterinary and Animal Sciences, Mannuthy, Kerala on December 18-20, 2019.
- Awarded **Associate Membership** of National Academy of Veterinary Sciences (NAVS-2019) awarded in 18th Annual Convocation cum Scientific Convention of NAVS on Futuristic Technologies in Animal Health and Production held at Kamdhenu University, Gandhi Nagar, Gujarat, Dec, 26-27, 2019.
- Received **Best Research Paper** published in JVPT-2019 awarded during the XX Annual Conference of ISVPT & International Webinar on “Receptor Dynamics in Cell Signalling” organized by Department of Pharmacology & Toxicology College of Veterinary Science & Animal Husbandry DUVASU, Mathura from October 4-5, 2020.
- **Member**, Institutional Animal Ethics Committee (IAEC) of SKUAST-Jammu for the 2018-2020.
- **Member Secretary**, Institutional Animal Ethics Committee (IAEC) of Faculty of Veterinary Sciences and Animal Husbandry- R S Pura, Jammu for the 2021 onwards.
- **Executive Member** of Indian Society of Veterinary Pharmacology and Toxicology (ISVPT) from 2009-2013 and 2018-2022
- **Executive Member** of Society of Toxicology (STOX) of India for 2017-2019.
- Recipient of **Merit Certificate** during **Doctoral of Philosophy** by Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu in 2015.
- **Best Poster Presentation Award** for presentation of research work entitled “**Evaluation of *In-vitro* antioxidant potential in leaves of *Nerium oleander***” during the three days “37th Annual Convention and National Symposium on “Holistic approach in Veterinary Medicine for better Animal Health to meet challenges of one health mission’ on 1st to 3rd February, 2019 at Rajasthan University of Veterinary and Animal Sciences, Bikaner, Rajasthan India.
- **Best Oral Presentation Award** during International e-Conference on Agricultural and Biological Sciences organized by Society for bioinformatics and Biological Sciences along with applied research and development organization held on 18-19Dec 2020.
- **Editorial board member** of monthly Published News letter, National Academy of Veterinary Sciences (NAVS) since January 2021.
- **Best Oral Presentation Award** for presentation of research work entitled “**Potentiating effect of imidacloprid on arsenic induced testicular toxicity in wistar rats**” presented in XVII Annual Conference of ISVPT and National symposium on “**Combating Antimicrobial Resistance**” organized by Department of Veterinary Pharmacology and Toxicology, LLUVAS, Hisar, Haryana on 20-22nd December, 2017.

- **Prof VV Ranade Young Scientist Award** on paper entitled “Hypoglycemic and Anti-oxidant Property of Aqueous Extract of *Sida Cordifoliain* Streptozotocin-induced Diabetes in Wistar-rats” presented in 13th ISVPT conference **Biopharmaceuticals and Nanotechnology in Therapeutics**” and National Symposium on **Development of Anticancer Drugs from Botanicals** held at SKUAST-Jammu (Nov, 20-22 2013).
- **Research Excellence Award 2019** for paper published in BMC Pharmacology and Toxicology Journal awarded by Institute of scholars, Bangalore
- **MODERATOR** for the paper of Agriculture research Scientist (ARS) examination conducted by **Controller of Examinations, Agricultural Scientists Recruitment Board (ASRB)** New Delhi from 12-13 March 2020.
- **CREATOR** of entrance test paper in division of Veterinary Pharmacology and Toxicology for **Junior / Senior Research Fellowship (JRF/SAF)** at National Dairy Research Institute (NDRI) Karnal, Haryana from 8-10 September 2021 conducted by National Testing Agency (NTA), Ministry of Education, Government of India.
- **Recipient of “DISTINGUISHED SCIENTIST AWARD” 2020** for outstanding contribution in Pharmacology and Toxicology by Society for Bioinformatics and Biological Sciences during international e-conference held on 18-19th Dec 2020.
- **Author of a paper awarded “BEST POSTER PRESENTATION AWARD”** during International e-Conference on Agricultural and Biological Sciences I-e-CABS-2020 organized by Society for bioinformatics and Biological Sciences along with Applied Research and Development Organization held on 18-19th Dec 2020.
- **RECEIVED APPRECIATION CERTIFICATE** for acting as Coordinator of International e-Conference on Agricultural and Biological Sciences I-e-CABS-2020 organized by Society for bioinformatics and Biological Sciences along with Applied Research and Development Organization held on 18-19th Dec 2020.
- Member of volleyball team participated in **3rd All India Inter-Agricultural University** sports and game meet 2001-02 on 5-9 Nov. at Rajasthan Agricultural University, Bikaner.
- **CO-CHAIRMAN**, Ethnopharmacology Session in XVII Annual Conference of ISVPT and National Symposium on “*Pharmacogenomics in the development and validation of indigenous drugs*” organized by “College of veterinary and Animal Sciences Mannuthy, Thrichsur Kerala on 18-20th Dec, 2019.
- **Cochairman** of Dr J. V. Anjaria Award Session XVII Annual Conference of ISVPT and National symposium on “*Combating Antimicrobial Resistance*” organized by Department of Veterinary Pharmacology and Toxicology, LLUVAS, Hisar, Haryana on 20-22nd December, 2017.
- **Rapporteur** in Technical session VI “Food safety / Xenobiotic residue” during XVI annual conference of ISVPT and National symposium on “Animal Health and production: Challenges and Opportunities for Veterinary Pharmacology and Toxicology” organized by Navsari Agricultural University, Navsari Gujarat on 23-25th November 2016.
- **Rapporteur** in Technical session I “Xenobiotic residue and food safety” during IX Annual Conference of ISVPT and national symposium on “Xenobiotic Residues and

Food Safety” and Pharmacogenomics and Toxicogenomics: New Horizons in Veterinary Pharmacology and Toxicology”. November 05-07, 2011, organized by department of Pharmacology and Toxicology AAU Anand, Gujarat 388 001.

- **Rapporteur** in Technical session IV “Professor VV Ranade Young Scientist Award” in 18th Annual conference of Indian Society of Veterinary Pharmacology and Toxicology and National Symposium, on one Health: Veterinary Pharmacology and Toxicology Approaches” Anand Agricultural University, Anand Gujarat, (Dec, 5-7; 2018).
- **COORDINATOR** of International e-Conference on Agricultural and Biological Sciences I-e-CABS-2020 organized by Society for bioinformatics and Biological Sciences along with Applied Research and Development Organization held on 18-19th Dec 2020.
- **JT. ORGANIZING SECRETARY** of National Seminar on “One Health Initiative in Addressing Public Health Issues in the Present Pandemic Situation” organized by Society for Bioinformatics & Biological Sciences, February 13, 2021.

ACADEMIC QUALIFICATION

Exams	Year of passing	Board/ University	Percentage marks	Div ⁿ	Subject taken
High School	1991	UP, Board,	66.7	1 st	Science
Intermediate	1993	- Do -	67.6	1 st	- Do -
B. V. Sc. & A.H.	2001	GBPUAST, Pantnagar	75.5	1 st	As per VCI syllabus
M. V. Sc	2003	IVRI Izatnagar	82.1	1 st	Veterinary Pharmacology & Toxicology
NET	2005	ICAR, New Delhi	Qualified	--	Veterinary Pharmacology & Toxicology
Ph. D	2015	SKUAST-Jammu	85.4	1 st	Veterinary Pharmacology & Toxicology

PRESENT JOB

- Working as **ASSISTANT PROFESSOR CUM JUNIOR SCIENTIST** in the Division of Veterinary Pharmacology and Toxicology, Faculty of Veterinary Sciences and Animal Husbandry, R. S. Pura, Sher-e-Kashmir University of Agriculture Sciences and Technology of Jammu, from September 2005 (08-09-2005) to till date.

Areas of work

a) Teaching:

1. **Undergraduate Courses:** - General and Systemic Veterinary Pharmacology (VPT-311), Veterinary Neuropharmacology (VPT-321), Veterinary Chemotherapy (VPT-411) and Veterinary Toxicology (VPT-421).

2. Masters Courses: - General Pharmacology (VPT-601), Autonomic and Autacoid Pharmacology (VPT-602), CNS Pharmacology (VPT-603), Digestive and Respiratory Pharmacology (VPT-604), Cardiovascular & Renal Pharmacology (VPT-605), Endocrine and Reproductive Pharmacology (VPT-606), Chemotherapy (VPT-607), Pharmacological Techniques (VPT-610), Masters Seminar (VPT-691).

3. Doctoral Courses: - Advances in Neuropharmacology (VPT-701), Autacoid Pharmacology (VPT-702), Molecular Pharmacology (VPT-705), Immunopharmacology (VPT-608), Clinical Toxicology (VPT-711).

b) Research:

1. Completed externally funded research project entitled “*Mechanisms Controlling the Metalaxyl Induced Developmental Toxicity with Special Reference to Reproduction Indices in Wistar Rats*” by the Department of Science & Technology, Ministry of Science and Technology, Govt. of India, amounting 16.79 Lakhs from 2011 to 2013.
2. Completed externally funded project entitled “*Estimation and evaluation of antimicrobial residues in foods of animal origin in Jammu region and their impact on human health*” by the Department of Science & Technology, J&K Govt. amounting 62.87 Lakhs from 2016 to 2021.
3. **Co-Investigator** of different University funded projects like:
 - ✚ Toxicological Studies of Pesticides in Animals
 - ✚ Pharmacokinetics of antibacterial agents in small ruminants
 - ✚ Studies of toxic plants of Jammu Province
4. **Research Management:** Major advisor or Member of Advisory Committee of post graduate students (MVSc & PhD) majoring Pharmacology and Toxicology and other disciplines

As Major Advisor – MVSc Scholar		
S. No	Title of the thesis	Student
1.	Alterations in biochemical and oxidative biomarkers in subacute oral toxicity of imidacloprid alone and in conjunction with arsenic in wistar rats.	Lakshay Mahajan (J-15-MV-433)
2.	Toxicity of quinalphos and its interaction with arsenic in rats	Parvinder Singh (J-16-MV-453)
As a Member of Advisory Committee (MVSc Scholar)		
1.	Studies on experimental molybdenosis and its amelioration in goats	Kusum (J-06-MV-16)
2.	Seroepidemiological investigation of some important infectious diseases of small animals in Jammu region	Arashdeep Singh (J-06-MV-14)
3.	Epidemiological studies and evaluation of oxcyclosanide and refoxanide against bovine paraamphistomosis in Jammu district	Rajesh K Kalha (J-06-MV-29)
4.	Effect of non-meat proteins on quality characteristics	Z F Bhat

	of chicken kabab	(J-06-MV-33)
5.	Efficacy of different organic acids as coagulants on quality attributes and shelf life of kaladhi	S A A Bukhari (J-06-MV-34)
6.	Bifenthrin induced oxidative damage and Biochemical alteration in rats and its Attenuation with vitamin C	Muneer Ah. Dar (J-07-MV-39)
7.	Toxic interaction of chlorpyriphos and fluoride in rats and its modulation with antioxidants	Naseer Ah Baba, (J-09-MV-106)
8.	Studies on biochemical alterations induced by Chlorfenapyr and its interaction with fluoride in wistar rats	Priyanka Sharma
9.	Hepatic and renal oxidative damage following repeated exposure to chlorfenapyr and its toxic interaction with fluoride	Naseer M Wani (J-14-MV-385)
10.	Toxicobiochemical alterations and oxidative stress induced by Butachlor and Lead in wistar rats and their amelioration by Napthoquinone	S Uzma (J-16-MV-454)
11.	Evaluation of Antioxidant and Nephroprotective potential of floral extract of <i>Cynara scolymus</i> in rats	Priyanka Sharma J-16-MV-455)
12.	Experimental studies on hydroalcoholic extract of <i>Cordia dichotoma</i> leaves for its antimicrobial and antidiarrhoeal activities	Rahul Dev (J-16-MV-456)
As a Member of Advisory Committee (PhD Scholar)		
1.	Computation of Judicious Treatment of Endometritis in Cows	Sudarsan Kumar (J-06-D-08-V)
2.	Bioprospection of <i>Berginia ciliata</i> for antioxidant antidiabetic, hepato and nephroprotective effect in wistar rats	Makhmoor A Bhatt (J-14-D-90-V)

c) **Extension:**

- ✚ Village visits and stay programme of University, Clinical camps
- ✚ Member of Mera Gao Mera Gavrao programme organized by SKUAST-Jammu

EXPERIENCE -

Post held	Employer	Period		Nature of work
		From	To	
Veterinary Officer	ULDB, Uttaranchal	01/06/2003	03/06/2005	Treatment & Extension activities
Assistant Professor cum Jr. Scientist	F. V. Sc & AH, SKUAST-J, RS Pura, Jammu	08/09/2005	Continue	Teaching, Research & Extension activities

PUBLICATIONS

(A). Research Papers:

1. Sharma, P., **Verma, P.K.**, Sood, S. Singh R, Gupta A, Rastogi A (2021). Distribution of Fluoride in Plasma, Brain, and Bones and Associated Oxidative Damage after Induced Chronic Fluorosis in Wistar Rats. *Biological Trace Element Research* (2021). <https://doi.org/10.1007/s12011-021-02782-3>.
2. Kour H. Raina R, **Verma PK**, Khan AM, Bhat AM, Nashiruddullah N. (2021). Evaluation of the wound healing activity of ethanolic extract of *Bergenia ciliata* (Haw.) Sternb. rhizome with excision wound model in Wistar rats. *Journal of Ethnopharmacology*. <https://doi.org/10.1016/j.jep.2021.114527>.
3. Verma, P.K., Singh, P., Sharma, P. et al. (2021) Dose-Dependent Oxidative Damage in Erythrocytes and Hepatic Tissue of Wistar Rats Concurrently Exposed with Arsenic and Quinalphos: a Subacute Study. *Biological Trace Element Research* (2021). <https://doi.org/10.1007/s12011-021-02807-x>
4. Nazim K, Godara R., Yadav A, Sofi OMU, Rafiqi SI, **Verma, P.K.**, (2021). Acaricidal activity of *Juglans regia* hull extracts against unfed larvae of *Rhipicephalus microplus* ticks. *Journal of Entomology and Zoology Studies*. 9(1): 651-654.
5. Nazim K, Godara R., Katoch R, Yadav A, Sofi OMU, Kumar A, Katoch M, **Verma, P.K.**, Singh NK (2021). In vitro assessment of turmeric (*Curcuma longa*; Family: zingiberaceae) extracts against *Rhipicephalus microplus* (Acari: Isodidae) ticks. *International Journal of Acarology* 47(5): 456-460. DOI:10.1080/01647954.2021.1928750.
6. Agarwal S, Gupta H P, Prasad S, **Verma P K**, Khanam A, Khan F A (2021). Effect of various hCG treatment protocols on luteal characteristics, plasma progesterone concentration, and pregnancy in normal cyclic Indian crossbred dairy cows. *Tropical Animal Health and Production*. 53:220.
7. Sharma P, **Verma PK**, Sood S., Pankaj NK, Agarwal, S., Raina R (2021). Neuroprotective potential of hydroethanolic hull extract of *Juglans regia* L. on isoprenaline induced oxidative damage in brain of Wistar rats. *Toxicology Reports* 8:223-229.
8. Mahajan L, **Verma PK**, Sharma P, Raina R, Sood S, Agarwal S. (2020). Antioxidant Biomarkers and Oxidative Damage in Lipids and Proteins of Blood following exposure of Arsenic and Imidacloprid in Wistar Rats. *Journal of Veterinary Pharmacology and Toxicology* 19(2):32-40.
9. Godara R., Rafiq SI, Sharma R, Katoch R, Yadav A, Pilania PK, **Verma, P.K.**, (2020). Acaricidal activity of *Alstonia scholaris* and *Sida cordifolia* leaf extracts against *Hyalomma anatolicum* ticks. *Indian Journal of Animal Sciences* 90(11): 1461-1464.
10. Singh P, **Verma PK**, Sharma P, Sood S, Raina R (2020). Effects on antioxidant system of cardiac tissue following repeated oral administration of arsenic, quinalphos and their combination in Wistar rats. *Exploratory Animal and Medical Research* 10(2): 141-147.

11. Gupta V, Sharma M, Sharma S, **Verma PK**, Kant V. (2020). Synthesis and study of antioxidant activity of nickel nanoparticles in concentration and time dependent manner. *Journal of Veterinary Pharmacology and Toxicology* 19(1):35-39.
12. Singh, P., **Verma, P.K.**, Raina, R. Sood S., Sharma P. (2020). Maximum contaminant level of arsenic in drinking water potentiates quinalphos-induced renal damage on co-administration of both arsenic and quinalphos in Wistar rats. *Environmental Science and Pollution Research* 27: 21331-21340.
13. Gupta V., **Verma, P.K.**, Gupta A., Kant, V., Kumar P., Sharma M. (2020). Comparative evaluation for wound healing potentials of bulk and nano forms of zinc oxide ointment. *Nanosystems: Physics, Chemistry, Mathematics*, 11(4): 453-461.
14. Gupta V., **Verma, P.K.**, Gupta A., Kant, V., Sharma M. (2020). Synthesis characterization and evaluation of in vitro antioxidant activity of cobalt nanoparticles: Concentration and stability dependent approach. *Exploratory Materials Science Research* 1(2): 84-90.
15. Sharma P, **Verma PK**, Raina R, Sood S, Prawez S. Manhas L. (2020). Isoprenaline induced hepatic alterations and modulation by hydroalcoholic extract of Juglans regia hull in Wistar rats. *Toxicology International* 27(1&2): 58-69.
16. Singh, P., **Verma, P.K.**, Sharma P. Sood S., Raina, R. (2020). Oxidative changes in brain tissue after concurrent exposure to arsenic and quinalphos in Wistar rats. *Exploratory Environmental Science Research* 1(1): 87-95.
17. Singh, H., Agarwal, S., Singh, P., Kumar, S., **Verma, P.K.**, Sharma, U. (2020). Ultrasonography studies on effects of hCG administration at day 5 of the estrous cycle on pregnancy rate of repeat breeder cross-bred cow. *Journal of Entomology and Zoology Studies*. 8(4): 864-868.
18. Singh, P., Agarwal, S., Singh, H., **Verma P.K.**, Pandey A.K, Kumar, S. (2020). Antioxidant effects of *Aloe vera* as semen additive in cryopreservation of cattle bull semen. *International Journal of Current Microbiology and Applied Sciences*, 9(09): 1625-1635.
19. Singh, P., Agarwal, S., Singh, P., Singh, S., **Verma, PK.**, Butt S., Sharma U. (2020). Effects of Ascorbic Acid as Antioxidant Semen Additive in Cryopreservation of Cross-bred Cattle Bull Semen. *International Journal of Current Microbiology and Applied Sciences*, 9(07): 3089-3099.
20. Singh, P., Agarwal, S., Singh, H., Sharma A.K., **Verma, PK.**, Kumar S. (2020). Role of Catalase as Semen Additive in Cryopreservation of Cattle Bull Semen. *International Journal of Current Microbiology and Applied Sciences* 9(08): 2856-2869.
21. Singh, H., Agarwal, S., Singh, P., Kumar, S., **Verma, P.K.**, Pandey AK. (2020). Effects of hCG administration at day 6 of the estrous cycle on follicular and luteal studies of repeat breeder cross-bred cow. *Journal of Entomology and Zoology Studies*. 8(4): 1326-1330.
22. Singh, H., Agarwal, S., Singh, P., Kumar, S., **Verma, P.K.**, Kumar S. (2020). Role of hCG administration at day 4 of the estrous cycle in repeat breeder cross-bred cow. *Journal of Entomology and Zoology Studies*. 8(4): 2201-2205.

23. **Verma P.K.**, Raina R., Sood S., Sharma P., Bhat MA. (2019). Attenuating potential of leaf extracts of *Alstonia scholaris* on altered glycemic index, lipid, hepatic and renal parameters in streptozotocin induced diabetic rats. *Journal of Veterinary Pharmacology and Toxicology* 18(2):39-48.
24. Sood S, Yadav A, Katoch E, Bhagat M, Sharma A, Rahman S, **Verma P**, Rajat A, Khursheed AG, Sharma S. (2019). Oxidative stress and clinic-pathological alterations induced by *Cryptosporidium parvum* infection in a rat model. *Indian Journal of Animal Research* 53(11): 1431-1435.
25. **Verma PK**, Raina R, Sultana M, Singh M, Kumar P. (2019). Nephroprotective potential of *Alstonia scholaris* in cisplatin induced nephrotoxicity in experimental animals. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 89(1): 43-52.
26. Sharma P, Raina R, **Verma PK**, Singh P, Nashiruddullah N, Kour H. (2019). Nephroprotective potential of *Cynara scolymus* L. floral extract in cisplatin induced nephrotoxicity in rats. *Journal of Pharmacognosy and Phytochemistry* 8(1): 2074-2082.
27. Dar MA, Khan, AM. Raina R, Verma PK, Wani NM (2019). Effect of bifenthrin on oxidative stress parameters in the liver, kidneys and lungs of rats. *Environmental Science and Pollution Research*. 26(9):9365-9370.
28. Sharma P, Raina R, **Verma PK**, Nashiruddullah N, Pankaj NK, Kour H. (2018). Hepatoprotective potential of *Cynara scolymus* in cisplatin induced hepatotoxicity in rats. *Journal of Veterinary Pharmacology and Toxicology* 17(2): 57-62.
29. Mahajan L, **Verma PK**, Raina R, Pankaj NK, Sood S, Singh M. (2018). Alteration in thiols homeostasis, protein and lipid peroxidation in renal tissue following subacute oral exposure of imidacloprid and arsenic in Wistar rats. *Toxicology Reports*. 5:1114-1119.
30. Mahajan L, **Verma PK**, Raina R, Sood S. (2018). Toxic effects of imidacloprid combined with arsenic: Oxidative stress in rat liver. *Toxicological and Industrial Health*; 34(10); 726-735.
31. Pandita S, Prawez S. Bhat M A. Raina R, **Verma PK** (2018). Effect of repeated oral administration of lead and repeated dermal exposure of λ -cyhalothrin alone and in combination on the hematological parameters in goats. *Journal of Pharmacognosy and Phytochemistry* 7(4): 3197-3201.
32. Mahajan L, Verma PK, Raina R, Sood S. (2018). Potentiating effect of imidacloprid on arsenic-induced testicular toxicity in Wistar rats. *BMC Pharmacology Toxicology*. 19(1):48.
33. Khan AM, Raina R, Dubey N, **Verma PK** (2018). Effect of deltamethrin and fluoride co-exposure on the brain antioxidant status and cholinesterase activity in wistar rats. *Drug and Chemical Toxicology*, 41(2):123-127.
34. **Verma PK**, Raina R, Prawez S, Sultana M, Singh M, Kumar P. (2018). Protective mechanisms of quercetin on cisplatin induced oxidative damage in hepatic tissue of wistar rats. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 88(4): 1399–1407.

35. Dar MA, Mir HA, Raina R, **Verma PK** (2017). Effects of oxidative balance and acetylcholinesterase in liver and brain of rats dermally exposed to bifenthrin. *Toxicology International* 24(3):244-248.
36. Ahmad M, Sultana M, Raina R, Pankaj NK, **Verma PK**, Prawez S. (2017). Hypoglycemic, hypolipidemic, and wound healing potential of Quercetin in streptozotocin-induced diabetic rats. *Pharmacognosy Magazine* 13(51):S633-639.
37. **Verma PK**, Raina R, Singh M, Wazir VS, Kumar P. (2017). Attenuating potential of *Calendula officinalis* on biochemical and antioxidant parameters in hepatotoxic rats. *Indian Journal of Physiology and Pharmacology*, 61(4):398-410
38. Bhagat M, Sood S, Yadav A, **Verma PK**, Manzoor N, Chakraborty D, Katoch R, Sangha N. (2017). Alterations in oxidative stress parameters and its associated correlation with clinical disease on experimental *Cryptosporidium parvum* infection in Swiss albino mice. *Journal of Parasitic Diseases*, 41(3): 707-7012.
39. **Verma PK**, Raina R, Sultana M, Singh M. (2016). Modulatory effect of *Calendula officinalis* on altered antioxidant status and renal parameters in diabetic rats. *Pharmaceutical and Biomedical Research* 2(4): 52-64.
40. Singh G, Singh R, **Verma PK**, Singh R, Anand A. (2016). Anthelmintic efficacy of aqueous extract of *Zanthoxylum armatum* DC. seeds against *Haemonchus contortus* of small ruminants. *Journal of Parasitic Diseases*: 40(2):528-532.
41. **Verma PK**, Raina R, Sultana M, Singh M, Kumar P. (2016). Acetaminophen induced oxidative and histopathological alterations in hepatic tissue: Protective effects of *Alstonia Scholaris* leaf extracts. *Pharmacognosy Journal*. 8(4): 385-391.
42. Singh R, Singh G, **Verma PK**, Singh R, Upadhyay SR. (2016). *In-vitro* anthelmintic efficacy of aqueous and ethanolic extracts of *Artemisia absinthium* Linn. on *Haemonchus contortus* of small ruminants. *Journal of Veterinary Pharmacology and Toxicology* 15(1):59-61.
43. Kour P, Malik MA, Resum NA, Singh M, **Verma PK**. (2016). Isolation, serotyping and prevalence of salmonellosis from human diarrheic samples in Jammu region. *Journal of Animal Research* 6(4): 695-699.
44. **Verma PK**, Raina R, Sultana M, Singh M, Kumar P. (2016). Total antioxidant and oxidant status of plasma and renal tissue of cisplatin-induced nephrotoxic rats: Protection by floral extracts of *Calendula officinalis* Linn. *Renal Failure* 38:142-50.
45. Dar MA, Raina R, Mir AH, **Verma PK**, Pankaj NK, Sultana M. (2016). Protective role of L-ascorbic acid in oxidative stress induced by repeated oral administration of bifenthrin in wistar rats. *Journal of Animal Research* 6(1): 921-926.
46. Baba NA, Raina R, **Verma PK**, Sultana M. (2016). Free radicals induced nephrotoxicity following repeated oral exposure of chlorpyrifos alone and in conjunction with fluoride in rats. *Turkish Journal of Medical Sciences*. 46:512-517.
47. Dar MA, Raina R, Mir HA, **Verma PK**, Ahmad M (2015). Role of vitamin C against bifenthrin induced oxidative damage in lung of wistar rats. *Journal of Applied and Natural Science* 8(1):346-349.

48. Singh G, Singh R, **Verma PK**, Singh R, Anand A. (2015). Anthelmintic efficacy of aqueous extract of *Butea monosperma* (Lam.) Kuntze against *Haemonchus contortus* of sheep and goats. *Journal of Parasitic Diseases* 39(2):200-205.
49. Ahmad M, Prawez S, Sultana M, Raina R, **Verma PK**, Ahanger AA, Pankaj NK. (2015). Antidiabetic effect of *Sida cordifolia* (aqueous extract) on diabetes induced in wistar rats using streptozotocin and its phytochemistry. *Int. Journal of Pharmaceutical Research and Innovation* 8: 11-22.
50. **Verma PK**, Raina R, Sultana M, Prawez S, Singh M. (2015). Polyphenolic constituents and antioxidant/antiradical activity in different extracts of *Alstonia scholaris* (Linn.). *African Journal of Biotechnology*. 14(47): 3190-3197.
51. **Verma, PK**, Raina R, Sultana M, Singh M. (2015). Modulatory effects of *Alstonia scholaris* on biochemical and antioxidant parameters in experimentally induced hepatotoxicity in wistar rats. *Research Journal of Medicinal Plants*. 9 (8): 406-416.
52. Prawez S, Sultana M, Raina R, **Verma PK**, Rahman S, Azami S, Sharma M, Ahanger AA. (2015). Effect of curcumin ointment on excision wound healing by modulating biochemical parameters in wistar rats. *Journal of Veterinary Pharmacology & Toxicology* 14(2): 48-52.
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(B). Popular articles

1. Raina R, **Verma PK**, Peshin R, Kour H. (2019). Potential of *Juniperus communis* L as a nutraceutical in human and veterinary medicine. *Heliyon* 5(8):e02376 DOI: [10.1016/j.heliyon.2019.e02376](https://doi.org/10.1016/j.heliyon.2019.e02376)
2. Kour H, Raina R, **Verma PK**, Pankaj NK, Singh SP. (2019). Phytochemical Ingredients and Pharmacological Properties of *Bergenia ciliate*. *Journal of Veterinary Pharmacology and Toxicology* 18(1): 1-10.
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5. Kant V, Singh P, **Verma PK**, Bais I, Parmer MS, Gopal A, Gupta V. (2013). Anticoccidial drugs used in the poultry: An overview. *Science International* 1(7);261-265.
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11. Raina R, Prawez S, **Verma PK**, and Pankaj NK. (2008). Medicinal plants and their role in wound healing. *Vet Scan* 3(1):1-7.
12. **Verma PK**, Pawandeeep K. (2007). Physiopharmacological role of pineal gland in man and animals. *Veterinary World*, 5 (6): 193-196.
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14. **Verma PK**, Srivastava AK, Raina R, Prawez S. (2007). Anticancer therapy and its modulation: role of multi-drug resistance proteins. *Journal of Research SKUAST-J* 6(2) pp. 133-143.
15. **Verma PK**, Katoch R, Srivastava AK, Pankaj NK. (2007). An overview of neurotransmitters of helminth parasites. *Veterinary Practitioner* 8(2):176-179.
16. **Verma PK**. (2006). Antiseptics and disinfectants used in veterinary practices – A review. *Veterinary World* (4): 171-179.

(C). Lead papers presented in short course/ conferences/ symposium

1. Deliver invited lecture entitled “*Current Scenario & Strategies for Combating Antimicrobial Resistance*” deliver during the 21 days training on “*Concepts and applications of Pharmacology for meeting challenges of One Health in 21st Century*” from 12th July – 1st August 2021 organized by Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & Animal Husbandry, Jabalpur, Nanaji Deshmukh Veterinary Science University, Jabalpur (M.P.)
2. Deliver invited lecture on *Current Scenario & Strategies for Combating Antimicrobial drug Resistance* during Training programme on “Approaches in diagnosis of microbial diseases organized by Division of VPH, F V Sc & AH, R S Pura from 18-01-2021 to 28-01-2021.
3. **Conducted practical demonstration of Hands on practice Multiple Drug Resistance** during Training programme on “Approaches in diagnosis of microbial diseases organized by Division of VPH, F V Sc & AH, R S Pura from 18-01-2021 to 28-01-2021.
4. Deliver invited lecture entitled “*Recent Advancement in Combating Antimicrobial Resistance*” deliver during the 21 days training on “Advances in Pharmacology: Addressing the Paradigm Shift in Clinical and Para-Clinical Sciences” from 28th Dec 2020 – 21st January 2021 organized by Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & Animal Husbandry, Rewa (M.P.)
5. Deliver invited lecture entitled “*Molecular Techniques for the Diagnosis of Poisoning in Animals*” during 10days training programme organized by Division of Livestock production and Management F V Sc & AH, R S Pura, Jammu
6. **Deliver a lecture entitled “ आम जहरीले पौधे उनकी पहचान और जानवरों में उनकी विषाक्तता का उपचार”** deliver during Enterprenourship development through dairy farming and value addition of Milk" during the farmers training organized by Division of Livestock Product and Technology, FVSc & AH, R S Pura from 27th Oct - 10 Nov 2020.

7. Verma PK and Pankaj NK (2020). A practical conducted on “Toxins, toxicities and their expeditious laboratory detection” during the CURRENT ADVANCES IN DIAGNOSIS AND THERAPY OF SMALL RUMINANT DISEASES A 7-day training for Officers of Sheep Husbandry Department- Jammu Under National Livestock Mission, GOI from 25th Sep -1st Oct. 2018.
8. Kumar D, Kumawat S, Singh WR, Saddam A, Patel M, Verma PK, Malik JK (2018). “*Artemisinin: a boon of ancient wisdom and modern skills and industriousness*” presented in 18th Annual conference of Indian Society of Veterinary Pharmacology and Toxicology and National Symposium, on one Health: Veterinary Pharmacology and Toxicology Approaches” Anand Agricultural University, Anand Gujarat, pp 30-32 (Dec, 5-7; 2018).
9. Raina R, Verma PK, Pankaj NK, Dar MA (2018). “*Toxins and toxicities and their expeditious laboratory detection*” presented in **Current concepts in Diagnosis and Therapy of small ruminant diseases** a training programme under livestock mission organized by F V Sc & AH, R S Pura from 25Sep. to 1Oct. 85-89.
10. Pankaj NK, Verma PK, Raina R (2018). “*Common drugs and their uses in sheep and goats – concern and considerations*” presented in **Current concepts in Diagnosis and Therapy of small ruminant diseases** a training programme under livestock mission organized by F V Sc & AH, R S Pura from 25Sep. to 1Oct. 35-43.
11. Sultana M, Pankaj NK, Verma, PK, Raina R. (2017). **Demonstrations of common toxicants** presented in the *Common Toxicities and Their Management in Livestock – Recent Update* organized by State Agricultural Management and Extension Training Institute – Jammu (SAMETI-J), pp 94-107 (27-28th September 2017).
12. Sultana M, Pankaj NK, Verma, PK, Raina R. (2017). **Pyrethrins and pyrethroids poisoning among livestock and their management: recent updates** presented in the *Common Toxicities and Their Management in Livestock – Recent Update* organized by State Agricultural Management and Extension Training Institute – Jammu (SAMETI-J), pp 89-93 (27-28th September 2017).
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 47. **Verma, P.K.** Raina, R., Pankaj, N.K., Prawez S., and Srivastava A. K. (2007) Effects of tramadol on electrocardiogram, mean electrical axis and respiration in Kagani goats (*Capra hircus*). XXXI Annual Conference of ISVS and National Symposium: Oct. 27th – 29th, SKUAST-Jammu. p. 8.
 48. Kant V, Kusum, Raina R., **Verma P. K.** and Pankaj N. K (2007) “Toxicity of commonly used drugs in veterinary practice” presented in “XXXI Annual Conference of ISVS and National Symposium: Oct. 27th – 29th, SKUAST-Jammu. p. 94.
 49. Kant V, Kusum, Raina R., **Verma P. K.** and Pankaj N. K (2007). “Adverse effect of commonly used drugs in veterinary practice” presented in “XXXI Annual Conference of ISVS and National Symposium: Oct. 27th – 29th, SKUAST-Jammu. p. 122.
 50. Kusum, Kant V, Raina R., Pankaj N.K and **Verma P.K.** (2007) “Rehabilitation therapies in pets” presented in “XXXI Annual Conference of ISVS and National Symposium: Oct. 27th – 29th, SKUAST-Jammu. p. 111.
 51. **Verma, P.K.**, Pankaj, N.K., Prawez, S., Raina, R. and Srivastava, A.K. (2007) Mechanistic toxicology of snake venom and management of snake bite in animals. International Congress on “Advances in Zoo and Wild Animals Health and Management” and symposium on “Impact of Disease on Conservation of Wild Animals” April 26-27 held at R.S. Pura, Jammu.
 52. Pankaj, N.K., **Verma, P.K.**, Prawez, S., Raina, R., Srivastava, A.K. and Vinay Kant (2007) Medicinal properties of honeybee venom. International Congress on “Advances in Zoo and Wild Animals Health and Management” and symposium on “Impact of Disease on Conservation of Wild Animals” April 26-27 held at R.S. Pura, Jammu.
 53. Prawez, S., Raina, R., Srivastava, A.K., Pankaj N.K. & **Verma, P.K.** (2007) Antimicrobials therapy for ostriches. International Congress on “Advances in Zoo and Wild Animals Health and Management” and symposium on “Impact of Disease on Conservation of Wild Animals” April 26-27 held at R.S. Pura., Jammu.
 54. Raina, R, Prawez, S, **Verma, P.K.**, Pankaj, N.K and Srivastava A.K. (2006) Tobramycin pharmacokinetics after intramuscular administration in goats (*Capra hircus*). 6th Annual Conference ISVPT on November 23-25 held at Patna, Bihar.
 55. Prawez, S, Raina, R, Srivastava A.K., Pankaj, N.K. and **Verma, P.K.** (2006) Pharmacokinetic studies of Ceftriaxone following a single intramuscular

- administration in Kagani goats (*Capra hircus*). 6th Annual Conference ISVPT November 23-25, Patna, Bihar.
56. Raina, R., Prawez, S. Pankaj, N.K., and **Verma, P.K.** (2006). Nutritional and therapeutic benefits of probiotics in animals. 6th Biennial Animal Nutrition Association Conference pp- 303. R.S. Pura, Jammu.
57. Raina, R., Prawez, S., **Verma, P.K.** and Pankaj, N.K. (2005). Antiseptics and disinfectants used in gynecological practices. XXI Annual Convention of ISSAR & National Symposium: Nov. 23rd – 25th, SKUAST-Jammu. p. 208.
58. **Verma, P.K.**, Kumar, D., Tripathi, S.C., Tandan, S.K. (2004) Effects of cholinergic agents of spontaneous muscular activity of *Gastrothylax crumenifer* a rumen fluke. IV annual conference of ISVPT College of Veterinary Science and A.H., IGAU, Anjora, Durg (Chattisgarh) pp.102-103.

BOOK CHAPTERS AND MANUALS

A. Books

- B. Author of a **Practical book of Veterinary Pharmacology and Toxicology** (ISBN 978-93-87590-67-0) along with Dr Rajinder Raina and Dr N K Pankaj Published by JAYA Publishing House, **New Delhi, INDIA**, 110089.
- (a) Author of a book in Hindi entitled “**PADAP JANIT AAVISHALUTTA EVAM ROG**” (ISBN 9789386200693) along with Dr Rajeev Singh, and Dr A K Srivastava Published by **Satish Serial Publishing House, New Delhi, INDIA**, 110033.
- (b) Author of a text book of **VETERINARY TOXICOLOGY** (ISBN978-81226-32-2) along with Dr Anil Kumar Srivastava and Dr V K Dumka Published by **Satish Serial Publishing House, New Delhi, INDIA**, 110033.
- (c) Edited a book **INNOVATION THROUGH WELLNESS** – a compilation of invited lectures in National Science Day (NSD-2016). Edited by M Sultana, PK, Verma and N K Pankaj.
- (d) Edited a book **BIOPHARMACEUTICALS AND NANO TECHNOLOGY IN THERAPEUTICS** (*from life for life*) – a compilation of invited lectures in annual conference of ISVPT, 2013. Edited by M Sultana, R Raina, PK, Verma, S Prawez and S K Gupta.
- (e) Author of a book entitled "**Diagnosis and Therapeutic Management of Endometritis in Cows**" (ISBN 978-3-8383-8020-9) along with Dr Sudarsan Kumar and Dr A Bhardwaz published by **Lambert Academic Publishing House, Germany**.
- (f) Author of a book entitled “**Studies on antidiabetic and antioxidant potential of ipomea carnea**” (ISBN 978-3-659-31075-1) along with Dr. T.Y. Khan, and Prof. Rajinder Raina, published by **Lambert Academic Publishing House, Germany**.
- (g) Author of a book entitled “**Biochemical Alterations Induced by Fluoride & Deltamethrin in Rats**” ISBN 978-3-659-23409-5 along with Dr. Nitin Dubey, and Prof. Rajinder Raina, published by **Lambert Academic Publishing House, Germany**.
- (h) Author of a book entitled “**Super-ovulation and embryo transfer in bos indicus cattle**” ISBN 978-3-659-34958-4 along with Dr. Dr M M Rao, and Y. Umamahesh, published by **Lambert Academic Publishing House, Germany**.

- (i) Author of a book entitled "*Chlorfenapyr and Fluoride Induced Hepato-Renal Damage*" ISBN 978-3-659-97427-4 along with Dr. Nasir M Wani and Prof. Rajinder Raina, published by **Lambert Academic Publishing House, Germany**.

C. Book Chapters:

- (a) Raina R, Verma PK, Taku I, Malik JK, Gupta RC (2021) GARCINIA CAMBOGIA In A Nutraceuticals: Efficacy, Safety, and Toxicity edited by R C Gupta, Lall R and Srivastava A; Chapter 59 2nd edition, pp 975-990. Elsevier USA
- (b) **Prawez S., Raina R., Kumar M., Nimanapalli R, Verma P.K.** (2018). CHIRAITA (Swertia Chirayita) in book entitled "Pharmacology of Medicinal Plants" edited by Roy BK, Yadav H.N. published by KALYANI PUBLISHERS (ISBN: 978-93-272-8446-1) pp 79-84.
- (c) Raina Rajinder, Verma Pawan K and Pankaj NK (2017). "*Clinical Use of Antimicrobials*" in book Application of Advanced Diagnostic and Therapeutic Tools for Animal Health Management editors Rajiv Singh, Rajesh Aggarwal, S R Upadhyay and MMS Zama (ISBN no. 978-93-5281-156-4) pp-79-85.
- (d) Raina Rajinder and Verma PK (2017) "*Common drug use in Veterinary Practice*" in Hand book for Veterinary Practitioner edited by Rajiv Singh, A Tikoo and R K Bharatdwaj. (ISBN no. 978-93-5281-218-9) pp-103-105.
- (e) Sultana M, Verma PK, Pankaj NK, Rashid M (2014). *Heavy metals and associated health problems* in Environmental Hygiene and Safety edited by Mohammad Rashid published by Narendra Publishing House, Delhi India pp- 173-184.
- (f) Raina, R **Verma P K.**, M. Sultana and S. Prawez (2013) *Encapsulation of nanoparticles for antimicrobial drug delivery* in Biopharmaceuticals and Nanotechnology in Therapeutics (from life for life) Edited by M Sultana, R Raina, PK, Verma, S Prawez, S K Gupta, SKUAST-Jammu pp 136-141.
- (g) M Sultana, R Raina, **Verma P K.**, S. Prawez, A.M. Arshad, S. Mahrukh and S. Naseem (2013). *Antibiotic residues in food animals- A reason for drug resistance* in Biopharmaceuticals and Nano technology in Therapeutics (from life for life) Edited by M Sultana, R Raina, PK, Verma, S Prawez, S K Gupta, SKUAST-Jammu pp 142-158.
- (h) **Verma P.K**, Singh R., Raina. R. and Srivastava, A.K. (2006). *Toxicity of selenium and Fluoride in animals: health hazards and control strategies in mineral imbalances in livestock and their impact on animal health and production*. Edited by. Rajeev Singh and A.K. Srivastava, F. V. Sc. & A.H., SKUAST-J, R.S. Pura pp 154-163.
- (i) Prawez S., Pankaj, N.K., Raina, R. and **Verma, P.K.** (2008). *Antiseptic and disinfectants*, Textbook of Veterinary Pharmacology and Toxicology edited by B. K. Roy Kalyani Publications pp 498-504.
- (j) Pankaj, N.K., Prawez S., Raina, R. and **Verma, P.K.** (2008). *Chemotherapy of Neoplastic drugs*, Textbook of Veterinary Pharmacology and Toxicology edited by B. K. Roy Kalyani Publications 476-497.

D. Manuals

- (a) VPT - 311 (2 + 1) General and CNS Pharmacology
- (b) VPT - 321 (2 + 1) Autonomic and Systemic Pharmacology
- (c) VPT- 311 (2 + 1) General and Systemic Pharmacology
- (d) VPT- 321 (2 + 1) Veterinary Neuropharmacology
- (e) VPT – 411 (2 + 1) Chemotherapy
- (f) VPT – 421 (2 + 1) Toxicology

TRAINING /WORKSHOP ATTENDED

Title of the course/Workshop	Year	Institute/University	Duration
One day National workshop on “In-Vitro and In-vivo ADME” organized by Prerana Bio-Innovations Research Pvt. Ltd., Gandhinagar, Gujarat on 4th Dec. 2018.	2018	Prerana Bio-Innovations Research Pvt. Ltd., Gandhinagar, Gujarat	01 day 4 th December
One day Strategy Workshop on Harnessing Full Potential of A1 and A2 Milk in India. National Academy of Agricultural Sciences (NAAS), New Delhi, India 19 th May 2018.	2018	National Academy of Agricultural Sciences (NAAS), New Delhi, India	01 day 19 th May
One day Workshop on “Experimental Molecular Techniques” organized by Postgraduate Institute of medical Education and research (PGIMER), Chandigarh, 17 th Nov. 2017.	2017	Postgraduate Institute of medical Education and research (PGIMER), Chandigarh	01 day 17 th November
Innovation through wellness	2016	Division of Veterinary Pharmacology & Toxicology, Faculty of Veterinary Sciences and Animal Husbandry R S Pura	01 day 22 nd March
Nanobiology and regenerative therapies in animal health and production	2015	Division of Physiology and Climatology, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, (UP)	21 Days 1 st to 21 st September
Heavy metal pollutants in environment, effects on animals and mitigation	2015	Division of Medicine, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, (UP)	21 Days 3 rd to 23 rd June
Recent Advances in Dairy Nutraceuticals and Bioinformatics Applications	2010	Division of Animal Biochemistry, ICAR-National Dairy Research Institute, Karnal	21 Days 1 st to 21 st February

Quality control of feed Ingredients and compounded feed	2009	Division of Animal Nutrition, F. V. Sc. & AH, R. S. Pura, Jammu	21 Days 2 nd to 22 nd December
Techniques for detection of polymorphism in drug metabolizing enzymes and drug transporters	2009	Division of Animal Biotechnology, Anand Agricultural University, Anand - Gujarat	02 Days 3 rd & 4 th November
Advances in Clinical Pharmacokinetics and Drug Delivery system in Veterinary Practice	2006	Division of Veterinary Pharmacology & Toxicology, F. V. Sc. & AH, R. S. Pura, Jammu	10 Days 7 th to 16 th November
Mineral Imbalances in Livestock and their Impact on Animal Health and Production in Jammu and Kashmir State	2005	Division of Clinical Medicine, F. V. Sc. & AH, SKUAST-J, R. S. Pura	02 Days 8 th & 9 th December

CONFERENCE/SYMPOSIA ATTENDED

International:

- a) International Congress on Advances in Zoo and Wild Animals Health and Management and Symposia on Impact of Diseases on Conservation of wild animals held from April 26-27, 2007 at SKUAST-J, R. S. Pura.

National:

- a) Participated in annual conference of ISVPT and “*National Symposium on Future Prospects of Ethno-pharmacology for the promotion of animal health and production*” on Oct.24-26, 2003 at College of Veterinary and Animal Sciences, G. B. Pant University of Agriculture and Technology Pantnagar-263145 Uttaranchal.
- b) Participated in seminar on “*Recent trends in diagnosis and Prophylaxis of Emerging and Reemerging Animal disease*” on Feb.34-24, 2005 at College of Veterinary and Animal Sciences, G. B. Pant University of Agriculture and Technology Pantnagar-263145 Uttaranchal.
- c) Participated in “XXI Annual Convention of ISSAR & National Symposium on “*Recent Trends and Innovations in Animal Reproduction*”. Nov. 23rd – 25th 2005. at F.V. Sc. & A.H., R.S. Pura – Jammu
- d) Participated in National symposium and workshop on “*Mineral imbalances in livestock and their impact on animal health and production in Jammu and Kashmir State*” on December 8-9, 2005 at F. V. Sc. & A.H., R.S. Pura – Jammu.
- e) Participated in “6th Biennial Animal Nutrition Association Conference on “*Strengthening Animal Nutrition Research for Food Security, Environment Protection and Poverty Alleviation*”. September 15-17, 2006 at F. V. Sc. & A.H., R.S. Pura – Jammu.
- f) Participated in “XXI Annual Convention of IAVA & National Symposium on “*Recent Advances in Anatomical Concepts and Techniques for the Improvement of Livestock Production and Health*” on December 21-23, 2006 held at R.S. Pura – Jammu.

- g) Participated in “*National Symposium on emerging parasitic zoonoses and advances in herbal medicine against parasites of veterinary importance*” September 7-9, 2007, held at R.S. Pura., Jammu.
- h) Participated in “XXXI Annual Conference of ISVS and National Symposium on *Rehabilitation of small animals*”: Oct. 27rd – 29th, 2007, held at R. S. Pura, SKUAST-Jammu.
- i) Participated in 9th Annual Conference of ISVPT and national symposium on “*Xenobiotic Residues and Food Safety*” and *Pharmacogenomics and Toxicogenomics: New Horizons in Veterinary Pharmacology and Toxicology*”. November 05-07, 2009 organized by department of Pharmacology and Toxicology AAU Anand, Gujarat 388 001.
- j) Participated in 10th Annual Conference of ISVPT and national symposium on “*Recent trends in ethno-pharmacology & monitoring of environmental and food toxicants*”. December 2-4, 2010, organized by department of Pharmacology and Toxicology, MPPCVV- Jabalpur 482 001 (MP) India.
- k) Participated in 11th Annual Conference of ISVPT and national symposium on “*Bioinformatics in drug Designing and Challenges and Opportunities in veterinary Drug Development*”. November 17- 19, 2011, organized by department of Pharmacology and Toxicology, Indian Veterinary Research Institute IVRI, India.
- l) Participated in 12th Annual Conference of ISVPT and national symposium on “*Nutraceuticals in Livestock & Poultry Farming*” from 12-14 December, 2012, organized by Department of Veterinary Pharmacology and Toxicology, Veterinary College, Hebbal, Bangalore, Karnataka.
- m) Participated in 13th Annual conference of ISVPT and National Symposium on “*Biopharmaceuticals and Nano Technology in Therapeutics & Development of Anti Cancer drugs from Botanicals*” held at Division of Veterinary Pharmacology and Toxicology, from 20-22 Nov. 2013, SKUAST-Jammu (J&K), R.S. Pura, Jammu.
- n) Participated in Pre-conference workshop of 2nd International conference on “*Addressing new challenges and Emerging Issues in Animal Science and Dairy Research*” organized by Faculty of Veterinary Sciences & Animal Husbandry, R S Pura, Jammu Dated 23rd July 2014.
- o) Participated in National Science Day (NSD-2016) theme “*wellness through innovation*” organized by Division of Pharmacology & Toxicology, SKUAST-Jammu. Sponsored by Department of Science and Technology, New Delhi (21st March, 2016).
- p) Participated in XVI annual conference of ISVPT and National symposium on “*Animal Health and production: Challenges and Opportunities for Veterinary Pharmacology and Toxicology*” organized by Division of Pharmacology & Toxicology, Navsari Agricultural University, Navsari Gujarat on 23-25th November, 2016.
- q) Participated in 37th Annual Conference of Indian Society of Toxicology (STOX) and National Symposium on “*New Paradigms in Toxicology: Its current Challenges and Future Facts*” organized by *Post graduate Institute of Medical Education and Research (PGIMER), Chandigarh* held on 17-19 Nov. 2017.

- r) Participated in XVII Annual Conference of ISVPT and National symposium on “**Combating Antimicrobial Resistance**” organized by Department of Veterinary Pharmacology and Toxicology, LLUVAS, Hisar, Haryana on 20-22nd December, 2017.
- s) Participated in 18th Annual conference of ISVPT and National Symposium, on “**One Health: Veterinary Pharmacology and Toxicology Approaches**” organized by Department of Veterinary Pharmacology and Toxicology, Anand Agricultural University, Anand Gujarat, (Dec, 5-7; 2018).

Extension activities:

- (a) Member, transport and accommodation committee constituted for smooth conduct of 2nd National Conference of Society for Veterinary & Animal Husbandry Extension (SAVAHE) on “**Technological Interventions for sustainable Livestock Production**” Organized by Faculty of Veterinary Sciences & Animal Husbandry R S Pura 11-12th April 2017. (Vide no. AUJ/DE/ASRB/16-17/Conf/190; Dated 01/02/2017).
- (b) Invigilator of **Agricultural Research Services (ARS) Preliminary Examination-2016 and National Eligibility Test (NET)** at Faculty of Veterinary Sciences & Animal Husbandry, R S Pura, Vide no. AUJ/DE/17-18/216-62, Dated 15-05-2017.
- (c) Member, transport committee constituted for smooth conduct of XIII Annual Convention of Society for **Conservation of Domestic Animals Biodiversity & National Symposium on Policy Planning for Livelihood Security Through Domestic Animals** organized by Faculty of Veterinary Sciences & Animal Husbandry R S Pura 11-12th February 2016 (Vide no. AUJ/FVSc/15-16/F-225/4485-4505, Dated 14/01/2016).
- (d) Appointed as a **Supervisor for the written comprehensive examination** of Postgraduate students at Faculty of Veterinary Sciences and Animal Husbandry R S Pura vide order no. AUJ/UEC/15-16/1508-13, dated 03/03/2016.
- (e) Appointed as an **Accompanying Person of All India Tour of 4th year B V Sc & A H** (Batch 2012), vide university order No. 160, dated 28/12/2015 w.e.f. 01/01/2016 to 18/01/2016.
- (f) **Convener, Stage Committee** of National Science Day (NSD-2016) theme “**wellness through innovation**” organized by Division of Pharmacology and Toxicology, SKUAST-Jammu. Sponsored by Department of Science and Technology, New Delhi (22nd March, 2016).
- (g) **Member, Publicity Committee** of National Science Day (NSD-2016) theme “**wellness through innovation**” organized by Division of Pharmacology and Toxicology, SKUAST-Jammu. Sponsored by Department of Science and Technology, New Delhi (22nd March, 2016).
- (h) **Member, Purchase Verification Committee** of National Science Day (NSD-2016) theme “**wellness through innovation**” organized by Division of Pharmacology and Toxicology, SKUAST-Jammu. Sponsored by Department of Science and Technology, New Delhi (22nd March, 2016).

- (i) Invigilator of **Agricultural Research Services (ARS) Preliminary Examination-2015 and National Eligibility Test (NET)** at Faculty of Veterinary Sciences & Animal Husbandry (Vide no. AUJ/FVSc/ASRB/15-16/12-87, Dated 01st Dec. 2015).
- (j) Member of **food committee** in Preconference of 2nd International conference on **“Addressing new challenges and Emerging Issues in Animal Science and Dairy Research”** organized by Faculty of Veterinary Sciences & Animal Husbandry (Vide no. AUJ/DRI/2014-15/1015-25. Dated 23rd July 2014).
- (k) **Member, Stage Committee during** 32nd Annual convention of the Indian Society for Veterinary Medicine & International Symposium on “The 21 Century Road Map for Veterinary Practice, Education and Research in India and Developing Countries” held at F V Sc & A H, R S Pura, SKUAST-Jammu. (14th – 16th February, 2014) (Vide no. AUJ/FVS/ISVM/2013-2014/4941-5015; Dated 30-01-2014).
- (l) **Member, Media and Publicity Committee during** 32nd Annual convention of the Indian Society for Veterinary Medicine & International Symposium on “The 21 Century Road Map for Veterinary Practice, Education and Research in India and Developing Countries” held at F V Sc & A H, R S Pura, SKUAST-Jammu. (14th – 16th February, 2014) (Vide no. AUJ/FVS/ISVM/2013-2014/4941-5015; Dated 30-01-2014).
- (m) Invigilator of **Agricultural Research Service (ARS, Preliminary) Examination and National Eligibility Test (NET 2013)** conducted by Agricultural Scientist Recruitment Board (ASRB) at Faculty of Veterinary Sciences & Animal Husbandry, R S Pura, Vide no. AUJ/FVSJ/2013-14/F-217/4013-27, Dated 23-12-2013.
- (n) **Member, Organizing Secretariat**, 13th Annual conference of ISVPT and National Symposium on **“Biopharmaceuticals and Nano Technology in Therapeutics & Development of Anti Cancer drugs from Botanicals”** held at Division of Veterinary Pharmacology and Toxicology, Faculty of Veterinary Sciences and Animal Husbandry, SKUAST (J&K), R.S. Pura, Jammu. (20-22nd Nov, 2013)
- (o) Course co-coordinator of ICAR Training Course on **“Advances in Clinical Pharmacokinetics and Drug Delivery System in Veterinary Practice”** from Nov. 7-16, 2006 in which about 30 scientists from different institutes participated.
- (p) **Member of Faculty of Veterinary Sciences and Animal Husbandry SKUAST-J**, R S Pura, as Order No. 21 of 2010 dated 28-05-2010.
- (q) **Member, Media & Publicity Committee, during** 13th Annual conference of ISVPT and National Symposium held at Division of Veterinary Pharmacology and Toxicology, FV Sc & AH, R S Pura, SKUAST-Jammu. (20-22nd Nov, 2013) (Vide no. AUJ/FVS/ISVPT/2013-14- 3174-3254. Dated 15-10-2013).
- (r) **Member, Publication Committee during** 13th Annual conference of ISVPT and National Symposium held at Division of Veterinary Pharmacology and Toxicology, F V Sc & A H, R S Pura, SKUAST-Jammu. (20-22nd Nov, 2013) (Vide no. AUJ/FVS/ISVPT/2013-14- 3174-3254. Dated 15-10-2013).
- (s) **Member, Verification Committee during** 13th Annual conference of ISVPT and National Symposium held at Division of Veterinary Pharmacology and Toxicology, F V Sc & A H, R S Pura, SKUAST-Jammu. (20-22nd Nov, 2013) (Vide no. AUJ/FVS/ISVPT/2013-14- 3174-3254. Dated 15-10-2013).

- (t) Member of ***Hall Seating Arrangement Committee during 3RD CONVOCATION of the University*** held on 04 March 2011 (Vide no. AUJ/Adm/10-11/12296-12496. Dated 11-02-2011).
- (u) ***Member of emergency duty committee during Kissan Mela*** from March 23-25, 2011 at SKUAST-J, Main campus Chatha (vide no. AUJ/DEE/F-71/4621-4821 dated 15-03-2011).
- (v) Member for organizing ***Sports & Extracurricular activities (Chess)*** for Faculty of Veterinary Sciences & Animal Husbandry (Vide no. AUJ/DRI/08-09/F-188/2826-85. Dated 20th March 2009).
- (w) Member of Press and Media Committee during workshop & Seminar on “***Update on Prevention and Treatment of Bovine Mastitis***” at Faculty of Veterinary Sciences & Animal Husbandry on 26th March 2009 (Vide no. AU/FVSJ//08-09/4540-50 Dated 23-03-09).
- (x) Member of Accommodation Committee during National Symposium on “***Recent Trends and Innovations in Animal Reproduction***” at Faculty of Veterinary Sciences & Animal Husbandry on 26th March 2005 (vide no. AU/FVSJ//05-06/F-13628-40. Dated 08-11-05).
- (y) Member of Stage Press, Media and Invitation Committee during National Symposium on “***Mineral imbalances in livestock and their impact on animal health and production in Jammu and Kashmir State***” on December 8-9, 2005 (vide no. AU/FVSJ//05-06/4045-79. Dated 06-12-05).
- (z) Member of Accommodation Committee during National Symposium on “***Strengthening Animal Nutrition Research for Food Security, Environment Protection and Poverty Alleviation***” on September 15-17, 2006 (vide no. AU/FVSJ//06-07/2348-2417. Dated 01-09-2006).
- (aa) Member of Media and Publicity Committee during Annual Congress on “***Mineral imbalances in livestock and their impact on animal health and production in Jammu and Kashmir State***” on December 8-9, 2005 (vide no. AU/FVSJ//05-06/4045-79. Dated 06-12-05).
- (bb) Member of Press and Media Committee during DST Sponsored national Workshop on “***Enhancing science coverage in mass media***” on April 26-29, 2006 (vide no. AU/FVSJ//06-07/282-315. Dated 19-04-06).
- (cc) Member of Accommodation Committee during International Congress on “***Advances in Zoo and Wild Animals Health and Management and Symposia on Impact of Diseases on Conservation of wild animals***” held on April 26-27, 2007 (vide no. AU/FVSJ//05-06/4045-79. Dated 06-04-07).
- (dd) Member of Transport Committee during National Symposium on “***Rehabilitation of Veterinary Surgical Patients***” held on Oct. 27th – 29th, 2007 (vide no. AU/FVSJ//07-08/3360. Dated 17-10-07).
- (ee) Member, Accommodation Committee during XXI Annual Convention of Indian Association of Veterinary Anatomists and National Symposium on “***Recent Advances in anatomical concepts & Techniques for the improvement of Livestock Production and Health***” organized by F V Sc & AH, R S Pura on Oct. 21st – 23rd, 2006.

- (ff) Member, Press and Publishing Committee during “*Inaugural function of semen lab and Disease diagnostic Lab of Veterinary hospital*” R S Pura, 2006. (vide no. AU/FVSJ//06-07/904-926. Dated 02-08-2006).
- (gg) **Act as a Rapporteur** in Technical Session -1 on “*Xenobiotic Residues and Food Safety*” in IXth Annual Conference of ISVPT and National Symposium on Xenobiotic residues and food safety held on November 05-07, 2009 organized by Anand Agricultural University Anand (Gujarat).
- (hh) Participated in the village visit and Stay Programme as per the University curriculum from 2008 to till date

Committee members outside University

1. Appointed as an **Observer for National Eligibility cum Entrance Test (NEET)** conducted by the by the Central board of Secondary Education (CBSE), New Delhi, vide letter no. F.1(7)/CBSE/NEET/Ref. no.-NT2317/2017/2811-5480; DATED 20/04/2017.
2. Appointed as an **Observer for National Eligibility cum Entrance Test (NEET)** conducted by the by the Central board of Secondary Education (CBSE), New Delhi, vide letter no. F.1(7)/CBSE/NEET/Ref. no.-NT2317/2017/2811-5480; DATED 20/04/2017.
3. **Expert for Spot Evaluation of Answer Booklets of Agricultural Research Service (ARS, Mains) Examination, 2016** at Agricultural Scientist Recruitment Board (ASRB) vide letter no. NO.PA/CE/EVL/31/16, dated 7th July 2017, New Delhi.
4. Appointed as a **University Representative** at the Indian Council of Agricultural Research, New Delhi **for counseling of Post graduate (PG) admissions** in University for the academic year 2016-17 vide order no. AUJ/Acad/F-15/16-17/1560-66, dated 29/06/2016.
5. Appointed as an **Observer for All India Pre-Medical/Pre-Dental Entrance Test** by the Central board of Secondary Education (CBSE), New Delhi, vide letter no. F.1(7)/CBSE/AIPMT/OBSVR-P-20160352/2016/2351-4624 dated 12-04-2016.
6. Appointed as **In-charge Control Rooms** in the Examination centre for the conduct of **Common Entrance Test (CET)** by the J&K Board of Professional Entrance Examinations (BOPEE) vide letter no. BOPEE/Exams-4/2016 dated 02-05-2016.
7. Appointed as **Invigilator** in the Examination of SKUAST-J CET (**Common Entrance Test**) by the conducted by SKUAST-Jammu vide AUJ/UEC/F-39/18-19/69-260 Dated 18/06/2018.
8. Member of **Technical Assessment Committee for the Assessment of Technical Personnel of the Lab Technician in Cat.III (2010)** at National Dairy Research Institute (NDRI), Karnal 132001, via letter no. F.2-84/10/Assessment/E.II(T)-(45)-449 dated 22/12/2010.
9. **Executive member** of Indian society of Veterinary Pharmacology and Toxicology (ISVPT) 2009-1011.
10. Member of **Technical Assessment Committee for the Assessment of Technical Personnel of the Field Farm Technician functional group in Cat. I & II (2013)** at

National Dairy Research Institute (NDRI), Karnal 132001, via letter no. F.2-84/13/Assessment/E.II(T)-(48)-344 dated 16/12/2013.

11. Member of **Technical assessment committee for the Assessment of Technical Personnel (Medical & Para-medical) in Cat. III** (2008) at National Dairy Research Institute (NDRI), Karnal 132001, via letter no. F.2-84/07/Assessment/E. II(T)-43 dated 11/2008.
12. **Executive Committee Member** of Society of Toxicology (STOX) India effective from 1st April, 2016 to 31st March, 2018.
13. **Scientific/ International Advisory Board member and Reviewer of *Journal of Intercultural Ethnopharmacology*** now from 2009.
14. International Advisory Board member and Reviewer of ***Journal of Complimentary Herbal Medicine***
15. **Scientific/ International Advisory Board member and Reviewer of *International Journal of Chemistry, pharmacy and Technology*** from 2017.
16. Reviewer of Nephrology – a peer reviewed journal
17. Advisory Board Member of Annals of Pharmacology and Toxicology – a peer reviewed journal
18. Advisory Board member of “International Journal of Ecotoxicology and Ecobiology(IJEE)” a peer reviewed journal
19. Associate Editorial committee of peer reviewed Journal “LOJ Pharmacology & Clinical Research”
20. **MEMBER**, Institutional Animal Ethics Committee (IAEC) of SKUAST-Jammu for the 2018-2021.
21. **EXCUTIVE MEMBER** of Indian Society of Veterinary Pharmacology and Toxicology (ISVPT) of India for 2019-2022.
22. **MEMBER**, Faculty of Veterinary Sciences and Animal Husbandry R S Pura constituted for 2018-2020.
23. **Associate Editorial Committee** of LOJ PHARMACOLOGY & CLINICAL RESEARCH ISSN: 2644-1373, Lupine Publisher Journal.
24. **International Advisory Board Member** of Journal of Complementary Medicine Research since 2009.
25. **Editorial Board Member** in “**International Journal of Ecotoxicology and Ecobiology** (IJEE) bearing ISSN Print: 2575-1727 and ISSN Online: 2575-1735 published by scientific publishing group.
26. **Editorial Board Members** of SCIREA **Journal of Clinical Medicine** published by Science Research Association.
27. **Editorial member** (National), International Journal of Chemistry, Pharmacy and Technology ISSN2456-8473.
28. **Reviewer of Nephrology and other peer reviewed journal**

PROFESSIONAL MEMBERSHIP

- Registered with **Uttar Pradesh Veterinary Council**
- Life Member of **Association of Physiologist and Pharmacologist of India (APPI)**

- Life Member of **Indian society of Veterinary Pharmacology and Toxicology (ISVPT)**
- Life Member of **Society of Toxicology (SOT) (Membership No. 748L)**
- Life member of **Indian Science Congress (ISC) (Membership No. L28695)**
- Indian Society for Advancement of Canine Practice (Registration No. P-186/2642/2018)
- Life Member of **Veterinary Practitioner**
- Life Member of **Indian Veterinary Journal (IVJ)**

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DECLARATION

I hereby declare that the entries in this resume are true to the best of my knowledge and belief.

Place:- Jammu

(Pawan Kumar Verma)