

Curriculum Vitae



Dr. Shyam S. Sharma

Professor

Department of Pharmacology and Toxicology
National Institute of Pharmaceutical Education
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Dr Shyam S Sharma is a Professor in the Department of Pharmacology and Toxicology, NIPER, S.A.S. Nagar (Mohali), Punjab, India since 2009. Before joining NIPER Mohali, he worked as postdoctoral fellow at the College of Pharmacy, University of Illinois at Chicago, USA and did his PhD (Pharmacology) at the All India Institute of Medical Sciences (AIIMS), New Delhi. Dr Sharma has published more than 100 peer reviewed research papers/patents/book chapters. His research interests includes understanding the molecular mechanisms and role of neuroprotective approaches in the treatment of cerebral ischemia (stroke), diabetic complications (neuropathy, cardiomyopathy & encephalopathy), cognitive impairment and safety pharmacology (CNS, CVS & RS) of NCEs. He has more than 20 years of teaching (master's and doctorate students) and research experience. Dr Sharma has guided more than 75 master's and doctorate students. He has delivered more than 65 invited talks at national & international levels. He is on the editorial board of several international journals. He is recipient of Organisation for Pharmaceutical Producers of India (OPPI) Scientist Award 2012, Shakuntala Amir Chand Prize and Dr D.N. Prasad Oration award of Indian Council of Medical Research (ICMR), CDRI Oration award & PP Suryakumari Prize of Indian Pharmacological Society. He is Fellow of Indian Pharmacological Society (FIPS). He has organized several conferences including Drug Discovery and Development in New Millennium (D3NM1) conference in 2004, D3NM2 in 2005 and D3NM3 in 2006, 40th Annual Conference of Indian Pharmacological Society 2007 and 11th Annual Conference of International Society for Heart Research (ISHRCON 2014).

Education

Postdoctoral Fellow

Department of Pharmacodynamics
College of Pharmacy
The University of Illinois at Chicago
Chicago, USA

PhD

Department of Pharmacology
All India Institute of Medical Sciences (AIIMS)
New Delhi, India

Master of Pharmacy (Pharmacology) and Bachelor of Pharmacy

Delhi Institute of Pharmaceutical Sciences and Research (DIPSAR)
(Formerly College of Pharmacy), University of Delhi, New Delhi

Current Positions

Professor, Department of Pharmacology and Toxicology, NIPER, Mohali (since May 2009)
In-charge, National Centre for Safety Pharmacology
In-charge, Central Animal facility

Previous Positions held

Associate Professor, Department of Pharmacology and Toxicology, NIPER, Mohali (2004-May 2009)
Assistant Professor, Department of Pharmacology and Toxicology, NIPER, Mohali (1999-2004)
Senior Research Associate, All India Institute of Medical Sciences (AIIMS), New Delhi (1998-1999)
Postdoctoral Fellow, College of Pharmacy, University of Illinois, Chicago, USA (1997)
CSIR Senior Research Fellow (1994-1996) and UGC Research Fellow (1989-1991)

Honour/Awards

Fellow of Indian Pharmacological Society (FIPS) 2014
Organisation for Pharmaceutical Producers of India (OPPI) Scientist Award 2012
Dr D. N. Prasad Memorial Oration award 2011 of Indian Council of Medical Research
CDRI Oration 2009 of Indian Pharmacological Society
PP Suryakumari Prize 2009 of Indian Pharmacological Society
Shakuntala Amir Chand Prize 2006 of Indian Council of Medical Research
Secretary (International), Indian Pharmacological Society (2008-2011)
Editor, Current Research & Information on Pharmaceutical Sciences (CRIPS) 2000-2012
Editorial Board, Current Neurovascular Research (2012 onward)
Review Editor, International Journal of Pharmaceutical Sciences and Nanotechnology (2012-)
Editorial Board: Drugs : News and Views, AIIMS, New Delhi (1993-1997)
Silver medal awarded by Indian Pharmaceutical Association for the first rank in Master of Pharmacy (Pharmacology) in Delhi in 1991



ICMR awards presentation: Shri Ghulam Nabi Azad, Hon'ble Union Minister for Health & Family Welfare, Govt. of India presenting Shakuntala Amir Chand Prize 2006 of Indian Council of Medical Research to Dr. Shyam S. Sharma, Department of Pharmacology and Toxicology, NIPER S.A.S. Nagar for his contribution in the field of pharmacology. Dr Vishwa Mohan Katoch, Director-General ICMR graced this occasion.



OPPI award presentation: Dr Sam Pitroda, Advisor to Prime Minister of India on Public Information, Infrastructure and Innovations presenting Organization of Pharmaceutical Producers of India (OPPI) Scientist award to Prof. Shyam S Sharma, Department of Pharmacology & Toxicology,

NIPER, S.A.S. Nagar, Punjab on September 15, 2012 during the 46th Annual General Meeting of OPPI, Mumbai. Dr Sharma received this award for his outstanding research work in the area of pharmacology. Dignitaries graced the occasion (R-L) Shri Dilsher Singh Kalha, Secretary, Department of Pharmaceuticals, GOI; Dr Shyam S Sharma; Dr Sam Pitroda; Mr Ranjit Shahani, President, OPPI; Shri C. P. Singh, Chairman, NPPA, and Mr Tapan Ray, Director General OPPI.



Fellow of Indian Pharmacological Society (FIPS): Dr Dinesh Kumar, President Indian Pharmacological Society honoring Prof. Shyam S. Sharma, Department of Pharmacology and Toxicology, NIPER, S.A.S. Nagar as a Fellow of Indian Pharmacological Society (FIPS) for his outstanding contribution in the field of pharmacological Sciences during inaugural function of 47th Annual Conference of Indian Pharmacological Society on December 28, 2014 at Guwahati . Eminent pharmacologist Prof. Y. K. Gupta, AIIMS also graced FIPS ceremony.

Teaching Experience

16 years experience in teaching in the following areas of Pharmacology & Toxicology

- CNS Pharmacology
- CVS Pharmacology
- GI Pharmacology
- Autacoid pharmacology
- Pharmacological screening models in Drug Discovery
- Experimental Pharmacology
- Regulatory Affairs (IND, NDA, Safety Pharmacology and GLP)

- General pharmacology particularly receptor downregulation, upregulation and transmembrane signal transduction mechanisms

RESEARCH AREAS/EXPERTISES

1. **CNS research:** Elucidation of molecular mechanisms and evaluation of effect of pharmacological interventions in the CNS diseases like stroke (middle cerebral artery occlusion induced focal cerebral ischemia), global cerebral ischemia (BCO model), epilepsy (seizure models), Parkinson's (MPTP model), memory impairment (Beta amyloid model) etc
2. **Diabetes and diabetic complications research:** Evaluation of pharmacological intervention and nanoformulations in diabetic neuropathy, diabetic cardiomyopathy and diabetic encephalopathy (memory impairment) models
3. **Cardiovascular research:** Evaluation of pharmacological interventions in CVS diseases such as hypertension and myocardial ischemia
4. **Pain and inflammation research:** Neuropathic pain studies (CCI model and cancer chemotherapy induced NP models), vascular pain model, Carrageenan hyperalgesia model etc
5. **Electrophysiology (Patch clamp):** Characterization of alteration in voltage gated sodium channels in DRG neuron exposed to high glucose and evaluation of effect of pharmacological interventions
6. **Safety pharmacology studies:** CNS, cardiovascular, respiratory and gastrointestinal safety pharmacological studies on NCEs (Non-GLP studies).

Research guidance

Master's & PhD theses supervised: 75 & Under guidance: 10

PUBLICATIONS - 118

(RESEARCH PUBLICATIONS/ REVIEW ARTICLES/PATENTS/BOOK CHAPTERS)

Peer-Reviewed publications

1. Negi G and Sharma SS, Inhibition of I κ B kinase (IKK) protects against peripheral nerve dysfunction of experimental diabetes, **Molecular Neurobiology** 2015, 51(2):591-8.
2. Kharatmal S, Singh JN and Sharma SS, Calpain inhibitor, MDL 28170 confer electrophysiological, nociceptive and biochemical improvement in diabetic neuropathy, **Neuropharmacology** 2015, 97:113-121
3. Kharatmal S, Singh JN and Sharma SS, Rufinamide Improves Functional and Behavioral Deficits via Blockade of Tetrodotoxin-Resistant Sodium Channels in Diabetic Neuropathy, **Current Neurovascular Research** 2015 (in press)
4. Bulani Y and Sharma SS, Therapeutic Potential of Targeting Protease Activated Receptors (PAR) in Cardiovascular Diseases, **Current Pharmaceutical Design** 2015 (in press)
5. Meena CL, Ingole S, Rajpoot S, Thakur A, Nandekar PP, Sangamwar AT, Sharma SS and Jain R, Discovery of a low affinity thyrotropin-releasing hormone (TRH)-like peptide that exhibits potent inhibition of scopolamine-induced memory impairment in mice, **RSC Advances** 2015 (in press)
6. Kharatmal S, Singh JN and Sharma SS, Voltage-Gated Sodium Channels as Therapeutic Targets for Treatment of Painful Diabetic Neuropathy, **Mini-Reviews in Medicinal Chemistry** 2015 (in press)
7. Datusalia A, and Sharma SS, Amelioration of Diabetes-induced Cognitive Deficits by GSK-3 β Inhibition is Attributed to Modulation of Neurotransmitters and Neuroinflammation, **Molecular Neurobiology** 2014, 50(2):390-405.
8. Das NR and Sharma SS, Peroxisome proliferator activated receptor gamma coactivator 1 alpha: An emerging target for neuroprotection in Parkinson's disease, **CNS & Neurological Disorders - Drug Targets**, 2015 (in press)
9. Sharma M, Akhtar N, Sambhav K, Shete G, Bansal AK, Sharma SS, Emerging Potential of Citrus Flavanones as an Antioxidant in Diabetes and its Complications. **Current Topics in Medicinal Chemistry** 2015 (in press)

10. Gangwal RP, Damre MV, Das NR, Dhoke GV, Bhadauriya A, Varikoti RA, Sharma SS, Sangamwar AT, Structure based virtual screening to identify selective phosphodiesterase 4B inhibitors, **Journal of Molecular Graphics and Modelling** 2015, 57:89-98.
11. Singh JN, Rathej M and Sharma SS. Diabetic-induced increased sodium channel activity attenuated by tetracaine in sensory neurons in vitro, **Biochem Biophys Res Comm** 2014, 453(3):296-301
12. Gangwal RP, Damre MV, Das NR, Sharma SS, and Sangamwar AT. Biological evaluation and structural insights for design of subtype-selective peroxisome proliferator activated receptor- α (PPAR- α) agonists, **Bioorganic Medicinal Chemistry Letters**, 2015, 25(2):270-5
13. Das NR, Gangwal RP, Damre MV, Sangamwar AT, Sharma SS, A PPAR- β/δ agonist is neuroprotective and decreases cognitive impairment in a rodent model of Parkinson's disease, **Current Neurovascular Research** 2014, 11(2):114-24.
14. Uppalapati D, Das NR, Gangwal RP, Damre MV, Sangamwar AT, Sharma SS. Neuroprotective Potential of Peroxisome Proliferator Activated Receptor- α Agonist in Cognitive Impairment in Parkinson's Disease: Behavioral, Biochemical, and PBPK Profile, **PPAR Research** 2014: 2014, doi:10.1155/2014/753587
15. Gangwal RP, Das NR, Thanki K, Damre MV, Dhoke GV, Sharma SS, Jain S and Sangamwar AT. Identification of p38 MAP kinase inhibitors by Pharmacophore based virtual screening, **Journal of Molecular Graphics and Modelling** 2014, 49:18-24.
16. Jangra A, Datusalia A, Khandwe S and Sharma SS, Amelioration of diabetes-induced neurobehavioral and neurochemical changes by melatonin and nicotinamide: Implication of oxidative stress-PARP, **Pharmacology Biochemistry Behaviour** 2013, 114-115:43-51
17. Jangra A, Datusalia A, and Sharma SS, Reversal of neurobehavioral and neurochemical alterations in STZ-induced diabetic rats by FeTMPyP, a peroxynitrite decomposition catalyst and 1,5-Isoquinolinediol a poly(ADP-ribose) polymerase inhibitor, **Neurological Research** 2014, 36(7):619-26.
18. Kumar A, Negi G and Sharma SS, Neuroprotection by resveratrol in diabetic neuropathy: concepts and mechanisms, **Current Medicinal Chemistry** 2013, 20(36):4640-5).
19. Yera VG, Negi G, Sharma SS and Kumar A., Potential therapeutic effects of targeting Nrf2 and NF- κ B pathway in diabetic neuropathy, **Redox Biology** 2013, 1(1):394-397

20. Joshi R, Negi G, Kumar A, Pawar YB, Munjal B, Bansal AK and Sharma SS, SNEDDS curcumin formulation leads to enhanced protection from pain and functional deficits associated with diabetic neuropathy: An insight into its mechanism for neuroprotection, **Nanomedicine: Nanotechnology, Biology and Medicine** 2013, 9(6):776-85.
21. Bodakhe S, Verma S, Garkhal K, Samal SK, Sharma SS and Kumar N, Injectable photocrosslinkable nanocomposite based poly(glycerol sebacate) fumarate and hydroxyapatite: development, biocompatibility, and bone regeneration in a rat calvarial bone defect model, **Nanomedicine (FSG)** 2013, 8(11):1777-1795
22. Singh JN, Jain G and Sharma SS, *In Vitro* Hyperglycemia Enhances Sodium Currents in Dorsal Root Ganglion Neurons; An Effect Attenuated by Carbamazepine, **Neuroscience** 2012, 232C:64-73.
23. Kumar A, Negi G and Sharma SS, Suppression of NF-kappaB and NF-kappaB regulated oxidative stress and neuroinflammation by BAY 11-7082 (IkappaB Phosphorylation Inhibitor) in Experimental Diabetic Neuropathy, **Biochimie** 2012, 95(5): 1158-65.
24. Kaundal RK, Deshpande T, Gulati A and Sharma SS, Targeting Endothelin Receptors for Pharmacotherapy of Ischemic Stroke: Current Scenario and Future perspectives, **Drugs Discovery Today** 2012, 17(13-14): 793-804.
25. Khan W, Sharma SS and Kumar N, Bioanalytical method development, pharmacokinetics and toxicity studies of paromomycin and paromomycin loaded in albumin microspheres. **Drug Testing Analysis** 2013, 5(6):453-60.
26. Srinivasan K and Sharma SS. 3-Bromo-7-nitroindazole attenuates brain ischemic injury in diabetic stroke via inhibition of endoplasmic reticulum stress pathway involving CHOP, **Life Sciences** 2012, 90(3-4):154-160.
27. Prajapati KD, Sharma SS and Roy N, Hepatocyte nuclear factor 1 alpha mediated upregulation of albumin expression in focal ischemic rat brain, **Neurological Research** 2012, 34(1): 25-31.
28. Srinivasan K and Sharma SS. Neuroprotection Offered by Edaravone in a Diabetic Stroke Model is Mediating through Inhibition of Endoplasmic Reticulum **Basic & Clinical Pharmacology & Toxicology** 2012, 110(2):133-140.
29. Sah N, Rajput SK, Singh JN, Meena CL, Jain R, Sikdar SK, Sharma SS, L-PGLU-(2-PROPYL)-L-HIS-L-PRONH₂ attenuates 4-aminopyridine-induced epileptiform activity and sodium current: a possible action of new TRH analog for its anticonvulsant potential, **Neuroscience** 2011, 199:74-85.

30. Negi G, Kumar A, and Sharma SS. Nrf2 and NF- κ B modulation by sulforaphane counteracts multiple manifestations of diabetic neuropathy in rats and high glucose-induced changes, **Current Neurovascular Research** 2011, 8(4):294-304.
31. Srinivasan K and Sharma SS. Sodium phenylbutyrate ameliorates focal cerebral ischemic/reperfusion injury associated with comorbid type 2 diabetes by reducing endoplasmic reticulum stress and DNA fragmentation **Behav Brain Res** 2011, 225:110-116.
32. Kumar A, Negi G and Sharma SS. JSH-23 targets nuclear factor kappa B (NF- κ B) and reverses various deficits in experimental diabetic neuropathy: Effect on neuroinflammation and antioxidant defence", **Diabetes, Obesity and Metabolism** 2011, 13:750-758.
33. Kaundal R and Sharma SS. Ameliorative effects of GW1929, a nonthiazolidinedione PPAR γ agonist, on inflammation and apoptosis in focal cerebral ischemic-reperfusion injury, **Current Neurovascular Research** 2011, 8:236-235.
34. Negi G, Kumar A, Joshi R, Ruby PK and Sharma SS. Oxidative Stress and Diabetic neuropathy: Effects of antioxidants, **IIOAB Journal** 2011, 2 (6): 71-78.
35. Srinivasan K and Sharma SS. Augmentation of endoplasmic reticulum stress in cerebral ischemic/reperfusion injury associated with comorbid type 2 diabetes, **Neurological Research** 2011, 33(8):858-65.
36. Negi G, Kumar A, Joshi R and Sharma SS. Oxidative Stress and Nrf2 in the pathophysiology of Diabetic Neuropathy: Old perspective with a new angle, **Biochem Biophys Res Comm** 2011, 408(1):1-5.
37. Rajput SK, Kumar V, Siddiqui MA, Meena CL, Pant AB, Jain R and Sharma SS. Protective effects of L-pGlu-(2-propyl)-L-His-L-ProNH₂, a newer Thyrotropin Releasing Hormone analog in in vitro and in vivo models of cerebral ischemia, **Peptides** 2011, 32(6):1225-31.
38. Prajapati KD, Sharma SS and Roy N, Current Perspectives on potential role of albumin in neuroprotection, **Reviews in Neuroscience** 2011, 22(3):355-63.
39. Kaundal R and Sharma SS. GW1929, a Nonthiazolidinedione PPAR γ Agonist, Ameliorates Neurological Damage in Global Cerebral Ischemic-Reperfusion Injury through Reduction in Inflammation and DNA Fragmentation, **Behav Brain Res** 2011, 216(2):606-12

40. Negi G, Kumar A and Sharma SS Melatonin modulates neuroinflammation and oxidative stress in experimental diabetic neuropathy: Effects on NF- κ B and Nrf2 cascades. **Journal of Pineal Research** 2011, 50(2):124-31.
41. Monga V, Meena CL, Rajput SK, Sharma SS, Lu X, Gershengorn MC, Jain R, Synthesis, Receptor Binding and CNS Pharmacological Studies of New Thyrotropin-Releasing Hormone (TRH) Analogues, **ChemMedChem** 2011, 6(3):531-43.
42. Kumar A and Sharma SS. NF-kB Inhibitory action of Resveratrol: A Probable Mechanism of Neuroprotection in Experimental Diabetic Neuropathy, **Biochem Biophys Res Comm** 2010, 394(2):360-5.
43. Negi G, Kumar A, Kaundal RK, Gulati A and Sharma SS. Functional and Biochemical Evidence Indicating Beneficial Effect of Melatonin and Nicotinamide alone and in Combination in Experimental Diabetic Neuropathy, **Neuropharmacology** 2010, 58, 585-592.
44. Negi G, Kumar A and Sharma SS, Concurrent targeting of nitrosative stress-PARP pathway corrects functional, behavioral and biochemical deficits in experimental diabetic neuropathy, **Biochem Biophys Res Comm** 2010, 391: 102-106.
45. Prajapati KD, Sharma SS and Roy N, Upregulation of Albumin Expression in Focal Ischemic Rat Brain, **Brain Research** 2010, 1327: 118-124.
46. Kaur A, Singh R, Dey CS, Sharma SS, Bhutani KK, Singh IP, Antileishmanial phenylpropanoids from *Alpinia galangal* (Linn.) Willd. **Indian J Exp Biol** 2010, 48: 314-317.
47. Rajput SK, Singh JN and Sharma SS, Evaluation of the Terfenadine and Ketoconazole-induced QT Prolongation in Conscious Telemetered Guinea Pigs, **Pharmacological Reports** 2010, 62: 683-688.
48. Kaundal R and Sharma SS, PPARgamma agonists as neuroprotective agents, **Drugs News & Perspectives** 2010, 23(4):241-56.
49. Singh IP, Jain SK, Kaur A, Singh S, Kumar R, Garg P, Sharma SS and Arora SK, Synthesis and Antileishmanial activity of Piperoyl-Amino Acid Conjugates, **Eur J Med Chem** 2010, 45(8):3439-45.
50. Sharma SS, Kumar A, Arora M and Kaundal R. Neuroprotective Potential of Simultaneous Administration of Resveratrol and 4-Amino 1,8 Naphthalimide in Experimental Diabetic Neuropathy: Focus on Functional, Sensorimotor and Biochemical Changes. **Free Radic Res** 2009, 43: 1-9.
51. Kaundal R, Iyer S, Kumar A and Sharma SS. Neuroprotective effect of pioglitazone in global cerebral ischemia. **J Pharmacol Sci** 2009, 109: 361-367.

52. Rajput SK, Krishnamoorthy S, Pawar C, Kaur N, Monga V, Meena CL, Jain R and Sharma SS. Antiepileptic potential and behavioral profile of L-pGlu-(2-propyl)-L-His-L-ProNH₂, a newer Thyrotropin-releasing hormone (TRH) Analog. **Epilepsy Behav** 2009, 14: 48-53.
53. Kumar P, Kaundal R, More S, and Sharma SS. Beneficial effects of Pioglitazone on cognitive impairment in MPTP model of Parkinson's disease. **Behav Brain Res** 2009, 197: 398-403.
54. Sharma R, Kaundal R and Sharma SS. Amelioration of airway hyperresponsiveness and neutrophilic inflammation by PPAR γ agonist in LPS exposed guinea pigs, **Pulm Pharmacol Ther** 2009, 22: 183-189.
55. Singh JN, Jain G, Ramarao P, Sharma SS. Inhibition of sodium current by carbamazepine in DRG neuron in vitro. **Indian J Physiol Pharmacol** 2009, 53: 147-154.
56. Rajput SK, Singh JN, Jain G, Kaur N, Monga V, Meena CL, Jain R, Sharma SS. Neuropharmacological Profile of L-pGlu-(1-Benzyl)-L-His-L-ProNH₂, a newer Thyrotropin-Releasing Hormone Analog: Effects on Seizure Models, Sodium Current, Cerebral Blood Flow and Behavioral Parameters, **Epilepsy Research** 2009, 87, 223-233
57. Sharma SS, Kumar S, Srinivasan K, Kaushal AM and Bansal AK. Preclinical Safety Pharmacological Studies on the Amorphous Formulation of Celecoxib. **Arzneimittel-Forschung/Drug Res** 2009, 59: 254-262.
58. Sharma SS, Kaundal R and Kumar A. 4-Amino-1,8-naphthalimide: A potent PARP inhibitor, its neuroprotective role in experimental diabetic neuropathy. **Life Sciences** 2008, 82:570-576.
59. Arora M, Kumar A, Kaundal R and Sharma SS. Amelioration of Neurological and Biochemical Deficits by Peroxynitrite Decomposition Catalysts in Experimental Diabetic neuropathy. **Eur J Pharmacol**. 2008, 596:77-83.
60. Sreedhar S and Sharma SS. Protective effect of adenosine in diabetic neuropathic pain is mediated through adenosine a1 receptors. **Indian J Physiol Pharmacol** 2008, 52: 233-242.
61. Monga V, Meena CL, Kaur N, Kumar S, Pawar C, Sharma SS and Jain R. A New Facile Route to *N*- α -Boc-1,2-Dialkyl-L-Histidines and Their Use in the Synthesis of In Vivo Biologically Active Thyrotropin-Releasing Hormone (TRH) Analogs. **J Heterocyclic Chem** 2008, 45: 1603-1608.
62. Sharma SS and Kaundal RK. Neuroprotective effects of 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid (Trolox), an antioxidant in middle cerebral

artery occlusion induced focal cerebral ischemia in rats. **Neurol Res** 2007, 29:304-9.

63. Sharma SS and Gupta S. Neuroprotective effect of MnTMPyP, a SOD/Catalase mimetic in global cerebral ischemia is mediated through reduction of oxidative stress and DNA fragmentation. **Eur J Pharmacol**. 2007, 561:72-79.
64. Sharma SS, Kaundal R and Dhar A. FeTPPS protects against global cerebral ischemic-reperfusion injury in gerbils. **Pharmacol Res** 2007, 55: 335-342.
65. Gupta S, Gupta YK and Sharma SS. Neuroprotective effects of Pifithrin-ALPHA in global cerebral ischemia. **Indian J Physiol Pharmacol** 2007, 51: 62-68.
66. Kumar A, Kaundal R, Iyer S and Sharma SS. Effects of Resveratrol on nerve functions, oxidative stress and DNA fragmentation in experimental diabetic neuropathy, **Life Sciences** 2007, 80: 1236-44.
67. Saini A, Arun Kumar H.S and Sharma SS. Preventive and curative effect of edaravone on nerve functions and oxidative stress in experimental diabetic neuropathy. **Eur J Pharmacol** 2007, 568:164-72
68. Bodiwala HS, Singh G, Singh R, Dey CS, Sharma SS, Bhutani KK, Singh IP. Antileishmanial amides and lignans from Piper cubeba and Piper retrofractum. **J Natural Med** 2007, 61:418-421.
69. Dhar A, Kaundal RK and Sharma SS. Neuroprotective effects of FeTMPyP: A peroxynitrite decomposition catalyst in global cerebral ischemia model in gerbils. **Pharmacol Res** 2006, 54: 311-316.
70. Gupta S and Sharma SS. Neuroprotective effects of trolox in global cerebral ischemia in gerbils. **Biol Pharm Bull** 2006, 29: 957-961.
71. Kaundal RK, Shah KK and Sharma SS. Neuroprotective effects of NU1025, a PARP inhibitor in cerebral ischemia are mediated through reduction in NAD depletion and DNA fragmentation. **Life Sci** 2006, 79: 2293-302.
72. Saini AK, Patel RJ, Sharma SS and H.S AK. Edaravone attenuates hydroxyl radical stress and augmented angiotensin II response in diabetic rats. **Pharmacol Res** 2006, 54: 6-10.
73. Sayyed SG, Kumar A and Sharma SS. Effects of U83836E on nerve functions, hyperalgesia and oxidative stress in experimental diabetic neuropathy. **Life Sci** 2006, 79: 777-783.
74. Sharma SS and Sayyed SG. Effects of trolox on nerve dysfunction, thermal hyperalgesia and oxidative stress in experimental diabetic neuropathy. **Clin Exp Pharmacol Physiol** 2006, 33: 1022-1028.

75. Kumar S., Arun KHS, Kaul CL and Sharma SS. Effects of adenosine and adenosine A_{2A} receptor agonist on motor nerve conduction velocity and nerve blood flow in experimental diabetic neuropathy. **Neurol Res** 2005, 27: 60-6.
76. Saini AK, Arun KHS, Kaul CL, Sharma SS. Acute hyperglycemia attenuates nerve conduction velocity and nerve blood flow in male Sprague-Dawley rats: Reversal by adenosine. **Pharmacol Res** 2004; 56: 593-599.
77. Thiyagarajan M, Kaul CL and Sharma SS. Neuroprotective efficacy and therapeutic time window of peroxynitrite decomposition catalysts in focal cerebral ischemia in rats. **Br J Pharmacol** 2004, 142: 899-911.
78. Kabra DG, Thiyagarajan M, Kaul CL, and Sharma SS. Neuroprotective effect of 4-Amino-1,8-naphthalimide, a poly (ADP ribose) polymerase inhibitor in middle cerebral artery occlusion induced focal cerebral ischemia in rat. **Brain Research Bulletin** 2004, 62: 425-433.
79. Sharma SS, Munusamy S, Thiyagarajan M, and Kaul CL. Neuroprotective effect of peroxynitrite decomposition catalyst and poly (ADP-ribose) polymerase inhibitor alone and in combination on focal cerebral ischemia in rats. **Journal of Neurosurgery** 2004, 101: 669-674.
80. Gupta S, Kaul CL and Sharma SS. Neuroprotective effect of combination of poly (ADP ribose) polymerase inhibitor and antioxidant in middle cerebral artery occlusion induced focal cerebral ischemia in rats, **Neurological Research** 2004, 26: 103-107
81. Thiyagarajan and Sharma SS. Neuroprotective activity of curcumin in middle cerebral artery occlusion induced focal cerebral ischemia. **Life Sciences** 2004, 74: 969-985.
82. Gupta YK, Sharma SS. Involvement of 5-HT_{1A} and 5-HT₂ receptor in cisplatin induced emesis in dogs. **Indian Journal of Physiology and Pharmacology** 2002, 46:463-467.
83. Gupta YK, Sharma SS, Kamala Rai, Katiyar CK. Reversal of paclitaxel induced neutropenia by *Withania somnifera* in mice. **Indian Journal of Physiology and Pharmacology** 2001, 45:253-257.
84. Sharma M, Kamala Rai, Sharma SS, Gupta YK. Effect of antioxidants on pyrogallol induced delay in gastric emptying in rat. **Pharmacology** 2000, 60:90-96.
85. Bhargava HN, Sharma SS and J.T. Bian. Evidence for a role of N-methyl-D-aspartate receptors in L-arginine-induced attenuation of morphine antinociception. **Brain Research** 1998, 782, 314-317.

86. Sharma SS and Bhargava HN. Enhancement of morphine antinociception by ibogaine and noribogaine in morphine tolerant mice. **Pharmacology** 1998, 617: 229-232.
87. Sharma SS and Gupta YK. Effect of ginger (*Zingiber officinale*) against cisplatin induced delay in gastric emptying in rats. **Journal of Ethnopharmacology** 1998, 62: 49-55..
88. Sharma SS and Gupta YK. Effects of antioxidants on cisplatin induced delay in gastric emptying in rats. **Environmental Toxicology and Pharmacology** 1997, 3: 41-46.
89. Sharma SS, Kochupillai V, Gupta SK, Seth SD and Gupta YK. Antiemetic efficacy of ginger (*Zingiber officinale*) against cisplatin induced emesis in dogs. **Journal of Ethnopharmacology** 1997, 57: 93-96.
90. Sharma SS, Gupta SK, Kochupillai V, Seth SD and Gupta YK. Prevention of cisplatin induced pica behaviour in rats by antioxidants with antiemetic activity. **Environmental Toxicology and Pharmacology** 1997, 3: 145-149.
91. Gupta YK and Sharma SS. Antiemetic activity of antioxidants against cisplatin induced emesis in dogs, **Environmental Toxicology and Pharmacology** 1996, 1:179-184.

Patents:01

92. Jain R, Monga V, Kaur N, Sharma SS, Kumar S, Roy N, Majumdar J, Agarwal S, Pawar C, Kadam RU, Chavan A, 2006. CNS effective Thyrotropin Releasing Hormone analogs.WTO Indian Patent Application No 2065/DEL/2006.

Book Chapters: 09

93. Sharma SS and Bhutani K, Role of animals in Pharmaceutical Research, in INSA book on “**Use of Animals in Scientific Research and Education**”, Indian National Science Academy (INSA), New Delhi, 2013
94. Singh JN and **Sharma SS**, hERG Potassium Channels in Drug Discovery and Development, in **Ion Channels and Their Inhibitors**, Springer-Verlag Berlin Heidelberg 2011 DOI 10.1007/978-3-642-19922-6_6,

95. **Sharma SS**, Kumar N, Kapoor M. Drug Delivery System, in **Text Book of Pharmacology**, SD Seth and V Seth (Eds), Elsevier, a division of Reed Elsevier India Pvt. Ltd. 2009, 3/e, pp. 61-64.
96. Sharma SS and Chawla P. Anxiolytics and Hypnotic Drugs, in **Text Book of Pharmacology**, SD Seth and V Seth (Eds), Elsevier, a division of Reed Elsevier India Pvt. Ltd. 2009, 3/e, pp. 93-104.
97. Sharma SS and Chawla P. Antipsychotic agents and Lithium, in **Text Book of Pharmacology**, SD Seth and V Seth (Eds), Elsevier, a division of Reed Elsevier India Pvt. Ltd. 2009, 3/e, pp. 105-118.
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99. Sharma SS, Medhi B & Maulik M. Psychostimulants and Psychodelic Agents, in **Text Book of Pharmacology**, SD Seth and V Seth (Eds), Elsevier, a division of Reed Elsevier India Pvt. Ltd. 2009, 3/e, pp.150-158.
100. **Sharma SS** and Kaundal R, Targeting Molecular Pathways in Stroke, in **Current Trends in Pharmacology**, A.Ray and K. Gulati (Eds.), I.K. International Publishing House, New Delhi, 2007, pp. 311-326.
101. **Sharma SS** and Thiyagarajan M., Molecular mechanisms of cerebral ischemia, in "Molecular and Cellular Neurobiology" Thakur MK & Prasad S (Eds) Narosa Publishing House Pvt. Ltd., New Delhi. 2005, 191-202.

General Articles (Non Peer-reviewed article): 17

102. Gulati A and Sharma SS, Challenges in Drug Discovery: Overcoming the Development Hurdles. *Curr Trends Pharm Sci* 2014.
103. Shah KU, Mule N, Singh JN and Sharma SS, Voltage Gated Sodium Channel Blockers: Potential Treatment for Neuropathic Pain *Curr. Res. Infor. Pharm. Sci.* 2010, 11: 11-16
104. Negi G, Kumar A, Sharma SS and Gulati A, Biological actions of GLP-1 analogues: Recent advances & Development, *Curr Res Infor Pharm Sci* 2008, 9: 73-76.
105. Kumar A, Negi G, Gulati A and Sharma SS, Diabetic neuropathic pain, *Curr Res Infor Pharm Sci* 2008, 9: 69-72.
106. Negi G, Kumar A and Sharma SS, Oxidative stress in the pathophysiology of diabetic neuropathy: Mechanism to Management, *Curr Res Infor Pharm Sci* 2008, 9: 62-68.
107. Ingole SR, Rajput SK and Sharma SS, Cognitive enhancers: Current strategies & Future perspectives, *Curr Res Infor Pharm Sci* 2008, 9: 42-48.
108. Sharma R and Sharma SS, Targeting inflammation in COPD: Hope or Hype, *Curr Res Infor Pharm Sci* 2008, 9: 22-27.
109. Sathish K, Joshi B and Sharma SS, CNS Safety Pharmacology: International Guidelines & Methods, *Curr Res Infor Pharm Sci* 2007, 8: 2-5

110. Singh JN, Kumar S, Berhe AH and Sharma SS, QT prolongation: Paradigm shift in drug discovery & development, Curr Res Infor Pharm Sci 2007, 8: 6-12
111. Sharma R, Kumar S and Sharma SS, Respiratory safety Pharmacology, Curr Res Infor Pharm Sci 2007, 8: 13-16
112. Kumar S, Pawar C, Kumar Sathish K and Sharma SS, Therapeutic potential of thyrotropin releasing hormone and its analogues, Curr Res Infor Pharm Sci 2006, 7: 28-35
113. More SV and Sharma SS, Emerging Pharmacological targets for Parkinson's disease, Curr Res Infor Pharm Sci 2006, 7: 67-72
114. Kaundal R and Sharma SS, Challenges in CNS Drug Discovery, Curr Res Infor Pharm Sci 2005, 6: 2-6
115. Sharma SS, Srinivasan K and Satish Kumar S., Challenges and Future of Safety Pharmacology, Curr Res Infor Pharm Sci 2005, 6: 7-9
116. Sharma Ss And Kaundal R, Newer Pharmacological Strategies For Stroke, [Www.Pharmainfo.Net](http://www.Pharmainfo.Net)
117. Sharma Ss And Kumar S, Stroke Genomics, Curr Res. Infor Pharm Sci 2004, 5:2-5
118. Sharma Ss. Emerging Neuroprotective Approaches In Stroke Treatment, Curr Res Infor Pharm Sci 2003, 4(4): 8-12.

Abstracts Presentations : National and International Level: More than 100

Invited Lectures: 69

1. Therapeutic Potential of Targeting Nitric Oxide Pathway for the Treatment of Stroke, invited talk delivered at Symposium on Nitric Oxide: From Research to Applications held at VP Chest Institute, University of Delhi, on 6th April, 2015.
2. Cardiovascular Complications Associated with Diabetes: Effect of Pharmacological Interventions, invited talk delivered at 12th Annual Conference of International Society of Heart Research (ISHRCON 2015), March 14-15, 2015, JNU, New Delhi.
3. Safety Pharmacology in Drug discovery and Development, invited talk delivered at 34th National Workshop on Clinical Pharmacology and Therapeutics (NWCPT), February 23-28, 2015, PGIMER, Chandigarh
4. Pharmacological Techniques in Brain Research: Focus on evaluation of NCEs for cerebral ischemia, guest lecture delivered at 47th Annual Conference of Indian Pharmacological Society, December 27, 2014, GMC and NIPER, Guwahati.

5. Neuroprotective Potential of Peroxisome Proliferator Activated Receptor (PPAR) agonists in CNS disease models, guest lecture delivered at 47th Annual Conference of Indian Pharmacological Society, December 28, 2014, GMC and NIPER, Guwahati.
6. Elucidation of Involvement of Oxidative/nitrosative stress - Inflammation Cascade in Diabetic Neuropathy using Pharmacological Approach, guest lecture delivered at 47th Annual Conference of Indian Pharmacological Society, December 28, 2014, GMC and NIPER, Guwahati.
7. Safety Pharmacology: Current Guidelines and Good Laboratory Practices, guest lecture delivered at 47th Annual Conference of Indian Pharmacological Society, December 27, 2014, GMC and NIPER, Guwahati.
8. Neuroprotective potential of peroxisome proliferator activated receptor (PPAR) agonist in CNS disorders, invited lecture delivered in IBRO/APRC Chandigarh Neuroscience school, November 2-8, 2014, UIPS, Panjab University, Chandigarh
9. Safety Pharmacology: Current Guidelines and Challenges, guest lecture delivered during North Zone Indian Pharmacological Society conference, October 16-18, 2014, MM College of Pharmacy, M. M. University, Mullana, Ambala
10. Mechanisms of neuroprotection with PPAR agonists, invited lecture delivered during 28th Annual Meeting of Society for Neurochemistry, India (SNCI), September 10-12, 2014 held at CEFT, Sri Ramachandra University (SRU), Chennai.
11. Challenges in the Discovery and Development of CNS Therapeutics for the Management of CNS disorders, guest lecture delivered on July 2, 2014 during Two weeks Pharmacy Practice Training Programme for Pharmacy Teachers on “Rationale Drug Use and Disease Management”, June 30-July 11, 2014, MM College of Pharmacy, Mullana, Ambala.
12. Nitric oxide based strategies for the treatment of cerebral ischemia, guest lecture delivered at 46th Annual Conference of Indian Pharmacological Society & International Conference on Translational Pharmacology, December 16-18, 2013, Bangalore
13. Pre-marketing strategies for detecting risk, invited lecture delivered during National Conference on “Current Perspectives in Pharmacovigilance and Drug Risk Management” held at MM College of Pharmacy, Mullana, Ambala during November 21-23, 2013.
14. Safety Pharmacology in Drug Discovery: Use of Animals, Alternatives & GLP Principles, National Symposium cum Workshop on Animal Welfare, Ethics, Experimental Research & Alternatives School of Pharmacy & Emerging Sciences, Baddi University of Emerging Sciences & Technology, Baddi, H.P., November 16, 2013
15. Elucidation of Involvement of Oxidative stress and Inflammation in Diabetic Neuropathy using Pharmacological Interventions, invited lecture delivered during National Conference on Diabetes and its Complications, September 6-7, 2013, Nirma University, Ahmedabad.
16. Use of Animals and Alternatives in Safety Pharmacological Studies during Drug Discovery & Development, invited lecture delivered during symposium on “Management of Experimental

Animals & Alternatives”, May 11, 2013 organized by ASBASJSM College of Pharmacy, Bela, Punjab,

17. GLP: Role in Safety Pharmacological Studies, invited lecture delivered in the UGC Networking Summer Course on “Innovations in Pharma Research: Stepping Stones”, March 11-16, 2013, UIPS, Panjab University, Chandigarh
18. GLP : Role in Safety Pharmacology, invited talk delivered at National Symposium cum workshop on Experimental Research and Alternatives (NSWERA), March 11-15, 2013, PGIMER, Chandigarh
19. Determination of Pharmacokinetic and Pharmacodynamics parameters for nano-drug delivery system during the DBT Expert Group Meeting and Brainstorming on Application of Nanotechnology in Cancer Therapy, March 4-5, 2013
20. Pharmacological Interventions Targeting Oxidative Stress-PARP Pathway Attenuates Diabetes-induced Cardiac Dysfunctions, “International Conference on Cardiomyopathy Research (ICCR 2013)” (March1-2, 2013)”
21. Safety Pharmacology in Drug Development: Use of Animals and Alternatives in National Conference on “Use of Animals and Alternatives in Biomedical Research with Special reference to Drug Discovery and Drug Development”, February 14-15, 2013, Amity University, Noida, Uttar Pradesh
22. Pharmacological Interventions Targeting ER stress in stroke with diabetes, guest lecture delivered at 45th Annual Conference of Indian Pharmacological Society & International conference on navigating pharmacology towards safe and effective therapy, January 5-7, 2013, Nagpur
23. Safety Pharmacology and Good Laboratory Practices, guest lecture delivered at National Symposium on Good Laboratory Practices (GLP), July 28, 2012, PGIMER, Chandigarh
24. Safety Pharmacology, invited talk delivered at National Symposium cum workshop on Experimental Research and Alternatives (NSWERA), March 3, 2012, PGIMER, Chandigarh
25. PPARs as a therapeutic target for the treatment of ischemic stroke, guest lecture delivered at International Conference on Cardiovascular Research Convergence, February 17-18, 2012, Department of Pharmacology and Department of Cardiology, AIIMS, New Delhi, India
26. Targeting NFkB inflammatory cascade in diabetic neuropathy, guest lecture delivered at Annual Conference of Indian Pharmacological Society, December 19-21, 2011, KMC, Manipal.
27. PPARgamma as a neuroprotective target for stroke, delivered at Annual Conference of Indian Academy of Neuroscience, October 31-November 1, 2011, DIPAS, New Delhi
28. 4R’s Concept and Guidelines for Animal Research, delivered during DST sponsored workshop on Research Methodologies for Women Scientists at Department of Pharmacology, AIIMS, New Delhi, October 3-7, 2011.

29. Neuroprotective potential of PPAR in experimental models of stroke and Parkinson's Disease, delivered during UGC sponsored workshop "Hands-on-Exposure to Neuropharmacological & Molecular Biological Tools", 19 – 24 September 2011, UIPS, Chandigarh
30. Translational challenges in stroke research, delivered at ASBASJSM College of Pharmacy, Bela, Punjab, September 7, 2011.
31. Ethical use of animal in pharmacological experimentation: Rules, Regulations, Guidelines and Alternatives, delivered during Faculty development program on "Recent Development in pharmaceutical education and research", Rayat-Bahara Institute, Kharar, Punjab, July 19, 2011
32. Pharmacological Interventions Targeting peroxynitrite and PARP Pathways for Stroke treatment", delivered on April 15, 2011 at NIMHANS, Bangalore as a part of SfN Bangalore Chapter activity.
33. Animal Usage in Biological test methods in Indian Pharmacopoeia, WHO-Indian Pharmacopoeia Commission workshop, April 7-8, 2011
34. Neuroprotective potential of PPAR γ agonists in Cognitive dysfunction, National symposium on Molecular pathogenesis of neurological disorders, Panjab University, Chandigarh, February 22, 2011
35. Cardiovascular Safety Pharmacology of Pharmaceuticals, delivered at "World Congress of International Academy of Cardiovascular Sciences", February 1-3, 2011, Vadodara
36. Targeting Oxidative stress-peroxynitrite pathway in stroke: Translational Challenges, guest lecture delivered at V. B. Patel Chest Institute, University of Delhi, January 13, 2011
37. Neuroprotective potential of PPAR γ agonists in CNS disorders, guest lecture delivered at Annual Conference of Indian Pharmacological Society, December 16-19, 2010, Hyderabad.
38. Emerging Neurotherapeutics for the treatment of ischemic stroke, guest lecture delivered in "Emerging Trends in Drug Discovery & Development", 3rd UGC Networking Resource Centre Training Program, UIPS, Panjab University, Chandigarh, May 31-June 12, 2010.
39. Cell Injury and Inflammation in Cerebral Ischemia. Guest lecture delivered at Swift College of Pharmacy, Rajpura, Punjab on April 14, 2010.
40. Potential Role of Natural products for the treatment of stroke: Neuroprotective studies on curcumin. Guest lecture delivered in the workshop Natural Products in Health and Disease: Biochemical and Molecular mechanisms, at Panjab University, Chandigarh, March 6, 2010.
41. Targeting Peroxynitrite-PARP pathway for the treatment of Stroke, delivered in Indo-US conference held at Manesar, Haryana, December 19-21, 2009.
42. Emerging strategies for the treatment of stroke, delivered as a CDRI oration at the Annual Conference of Indian Pharmacological Society, December 12-15, 2009, Kolkata.

43. Targeting oxidative stress-PARP pathway for the treatment of vascular disease, delivered in the Symposium on Molecular cardiovascular Pharmacology at DIPSAR, New Delhi, March 16, 2009
44. Diabetic neuropathy: Therapeutic potential of Peroxynitrite scavengers and PARP inhibitors, lecture delivered at Midwestern University, Chicago, USA on April 17, 2009.
45. Targeting Peroxynitrite-PARP pathway for the treatment of Stroke, delivered in International Society for Free Radical Research (SFRR) Satellite Symposium-2009 on Free Radicals in Health and Disease, AMU, Aligarh, March 17-18, 2009
46. Targeting oxidative stress-PARP pathway for the treatment of vascular disease, delivered in the Symposium on Molecular cardiovascular Pharmacology at DIPSAR, New Delhi, March 16, 2009
47. Evaluation of Pharmacological Interventions Targeting Nitrosative Stress-PARP Pathway for the Treatment of Diabetic Neuropathy”, delivered in the National Conference on Innovations in Drug Discovery and Research, Punjabi University, Patiala, March 3-4, 2009
48. Targeting Nitrosative Stress-PARP Pathway in Diabetic Neuropathy, delivered in the National Symposium on Emerging Trends in Nitric Oxide Research: Impact on Health and Disease Drug Development, Vallabh Bhai Patel chest institute, University of Delhi, Delhi, January 11, 2009
49. Technological advances in pharmacological research, inaugural key note lecture delivered during International workshop on Next Generation Tools for Life Sciences Research and Education, November 9, 2009 at ASBASJSM College of Pharmacy, Bela, Punjab.
50. Emerging Therapeutic Targets for the Treatment of Stroke, delivered in the Department of Biochemistry, Panjab University, Chandigarh, Chandigarh, November 1, 2008
51. Schedule Y, delivered during the Two week Training program for Regulatory Personnel, CBP, NIPER, S.A. S. Nagar, June 16-27, 2008
52. Pharmacological Interventions targeting oxidative stress and PARP pathway in diabetic neuropathy, delivered in the Indo-US symposium on the treatment of neurological disorders at AIIMS, Nov. 19, 2007
53. Pharmacological Interventions targeting stroke, delivered at the Dr. B. R. Ambedkar Centre for Biomedical Research, New Delhi, June 27, 2007
54. Laboratory Animal Facility: Guideline and Inspection, delivered in the Training program for drug regulatory personnel, NIPER, April 21, 2007
55. Safety Pharmacology : Current Guidelines and Future Challenges, delivered in the Indian Pharmacological Society, Jaipur, December 21-23, 2006
56. Neuroprotection and Neurorestoration, delivered in the National Symposium on Neural Plasticity and Repair, New Delhi, October 18-19, 2006

57. Laboratory Animal Facility: Guideline and Inspection, delivered in the Training program for drug regulatory personnel, NIPER, April 21, 2006
58. Neuroprotective Potential of Pharmacological Interventions Targeted at Oxidative Stress, Poly (ADP-ribose) Polymerase and Mitogen Activated Protein Kinase Pathways in Stroke, delivered in the Indian Pharmacological Society, January 14, 2005, Kolkata
60. Laboratory Animal Facility: Guideline and Inspection, delivered in the Training program for drug regulatory personnel, NIPER, March 30, 2005
61. Pharmacological Interventions Targeted at Oxidative Stress, Poly (ADP-ribose) Polymerase and Mitogen Activated Protein Kinase Pathways in Diabetic neuropathy, delivered in the Indian Pharmacological Society, Chennai, December 27-29, 2005
62. Laboratory Animal Facility: Guideline and Inspection, delivered in the Training program for drug regulatory personnel, NIPER, May 24, 2005
63. Targeting Cerebral Ischemia, delivered in the Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, June 6, 2005
64. Pharmacological interventions targeted at Stroke, delivered in the Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, June 1, 2004
65. Laboratory animal facility: Guidelines and Inspection”, lecture delivered during course for Drug Regulatory Personnel under Capacity Building Project of World Bank, January 19-31, 2004, NIPER, S.A.S. Nagar.
66. Clinically significant drug interactions”, lecture delivered during Training Program for Hospital Pharmacist, December 16-21, 2002, AIIMS, New Delhi
67. Pharmacological data and Inspection of Animal House facility, lecture delivered during “An intensive course on “Inspection of Pharmaceutical Facility” September 3-21, 2001, AIIMS, New Delhi
68. Pharmaco-toxicological Documentation”, lecture delivered during An intensive course on “Pharmaceutical registration Dossier” September 2000, AIIMS, New Delhi
69. Lectures on Newer drugs; Antidote of common poisoning; Quality control of drugs and pharmaceuticals and Drug delivery system in Training programme for the pharmacist organised by Department of Hospital Administration, AIIMS, New Delhi, March 1998

Colloborators

- Prof. Anil Gulati, Associate Dean, Midwestern University, USA
- Dr A. B. Pant, Indian Institute of Toxicological Research, Lucknow
- Prof. Arvind Bansal, Department of Pharmaceutics, NIPER, Mohali
- Prof. A. K. Chakraborti, Department of Medicinal Chemistry, NIPER, Mohali
- Prof. Y.K. Gupta, Department of Pharmacology, AIIMS, New Delhi
- Prof. Rahul Jain, Department of Medicinal Chemistry, NIPER, Mohali

- Dr Inder Pal Singh, Department of Natural Product, NIPER, Mohali
- Dr Mahendra Bishnoi, National Agri - Food Biotechnology Institute (NABI), Mohali

Conferences/Workshop Organised

Organizing secretary, 11th Annual Conference of International Society of Heart Research (ISHRCON 2014), February 8-9, 2014

Organizing secretary, Minisymposium on Newer Targets/treatment of diabetic and diabetic complications” January 28, 2009, NIPER Mohali

Joint Organising Secretary, 40th Annual Conference of Indian Pharmacological Society (IPSCON 2007), November 1-3, 2007

Organizing secretary, Workshop on “Drug Discovery & Development in New Millennium-3 (D3NM-3)”, February 21-24, 2006

Organizing secretary, Workshop on “Acquaintance with CPCSEA Guidelines and handling, care and use of small laboratory animals”, August 2-3, 2006

Organizing secretary, Workshop on “Drug Discovery & Development in New Millennium (D3NM-2), February 28-March 3, 2005

Organizing secretary, Workshop on “Drug Discovery & Development in New Millennium (D3NM-1), February 26-29, 2004

Program co-ordinator, “Pharmacological and Toxicological assessment of Pharmaceutical, in an intensive course on “Preparation and assessment of pharmaceutical registration dossier” September 11-13, 2000.



Inaugural ceremony of 40th Annual Conference of Indian Pharmacological Society (IPSCON 2007), November 1-3, 2007 (IPSCON2007), NIPER, Mohali: Conference was inaugurated by Dr A.R. Kidwai, Hon'ble Governor of Haryana. Dignitaries Lighting the lamp (L-R): Prof. P. Rama Rao,

Director, NIPER, Prof. S. S. Sharma, Joint Organizing secretary, Dr A.R. Kidwai, Prof. K.K. Bhutani, Dean, NIPER, and Dr Prakash Diwan, President, Indian Pharmacological Society



Inaugural ceremony of the 11th Annual Conference of International Society of Heart Research (ISHRCON 2014), February 8-9, 2014, NIPER, Mohali: Dignitaries lighting the lamp (L-R) Prof. Arun Kumar Grover; Prof. K.K. Bhutani, Director (Officiating) NIPER; Prof KK Talwar, President ISHR Indian section, Prof. S. S. Sharma, Organizing secretary and Prof. SK Maulik, General Secretary ISHR Indian section,

Committee member/Session chaired

- Chaired a session at International Conference on Current Trends and Genetics in Heart Failure and Cardiac Arrhythmia (ICHF 2015), PGIMER, January 31-February 1, 2015
- Member, DPRP, DST, New Delhi
- Member, Project Review Committee, DSIR, New Delhi
- Member, Technical Committee, BIRAC, DBT, New Delhi
- Member (Pharmacology expert), ICMR
- Member, Subject Review committee, National Formulary of India
- Participated in preparing National List of Essential Medicine (NLEM) 2011 as a Pharmacology expert
- Currently reviewer of more than 20 national and international journals
- Subject expert for interview board for faculty and research positions at several universities/dept.
- Judge at Achari Prize session at 47th Annual Conference of Indian Pharmacological Society, December 27, 2014, GMC and NIPER, Guwahati.

- Chaired NS Dhalla award session for best oral presentation in basic science during 11th Annual Conference of International Society of Heart Research (ISHRCON 2014), February 8-9, 2014
- Judge OD Gulati session at the 46th Annual Conference of Indian Pharmacological Society & International Conference on Translational Pharmacology, December 16-18, 2013, Bangalore
- Chaired session at the 45th Annual Conference of Indian Pharmacological Society & International conference on navigating pharmacology towards safe and effective therapy, January 5-7, 2013, Nagpur
- Chaired session at the National Symposium cum workshop on Experimental Research and Alternatives (NSWERA), March 3, 2012, PGIMER, Chandigarh
- Guest of Honour by Indian Pharmacy Graduate Association, Kurushetra Chapter, November 17, 2012
- Pharmacology Subject expert for Faculty selection at the Shoolini University, Solan
- Judge for the “Niranjan Dhalla Award for Basic Sciences”, International Conference on Cardiovascular Research Convergence, February 17-18, 2012, AIIMS, New Delhi, India
- Chaired session at the IPS conference “Gufic Prize” at IPS, Manipal, December 19-21, 2011
- Judge for Chaired session at the IPS conference “Gufic Prize” at IPS, Manipal, December 19-21, 2011
- Judge for the Achari Prize session at the Annual Conference of Indian Pharmacological Society, December 19-21, 2011, KMC, Manipal.
- Chaired session, Word Congress of International Academy of Cardiovascular Sciences, February 1-3, 2011, Vadodara
- Pharmacology Subject expert, Faculty selection committee, Punjabi University, Patiala
- Chief Guest for Inauguration of International workshop on Next Generation Tools for Life Sciences Research and Education, November 9, 2009 at ASBASJSM College of Pharmacy, Bela, Punjab.
- Chaired session in the “National Symposium on Neural Plasticity and Repair”, New Delhi, October 18, 2006
- Chaired session in the “CME cum workshop on Drafting Skills in Medical Research” , Chandigarh, September 16, 2006
- Chaired session in the Brain storming workshop on Rationality assessment and guidelines for FDCs, AIIMS, June 25-26, 2007

EDITORIAL BOARD

- Editorial Board - Behavioural Neurology (IF-1.247), 2014 onwards
- Editorial Advisory Board Member, Current Neurovascular Research (IF-3.2), 2012 onwards
- Review Editor: International Journal of Pharmaceutical Sciences & Nanotechnology, 2012 onwards
- Editor-Current Research and Information on Pharmaceutical Sciences (2000-2012)

MEMBERSHIP OF PROFESSIONAL BODIES

- Indian Pharmacological Society (Life membership # LS 75)
- Indian Pharmaceutical Association (Life membership # PUN/LM/0109)
- Association of Physiologists and Pharmacologists of India
- Indian Academy of Neurosciences (Life membership # LS 228)
- Society of Neurochemistry, India (Life membership # LM-I-451)
- International Society of Neurochemistry (ISN # 16183)