

## CURRICULUM VITAE

Rupinder Kaur Sodhi

M.Pharmacy, Ph.D

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**Work Experience:** 13 years of experience towards teaching and research in an academic setting

### **Job Profile and responsibilities:**

- I have a doctorate in pharmacology and currently delivering lessons and mentoring the postgraduate pharmacology and research students for their scientific projects strongly emphasizing the use of bioinformatics tools for literature survey, formulation of hypothesis, and publishing their research work in peer reviewed journals. My past experience covers neuropharmacology specializing in the field of learning, memory, dementia and alzheimer's disease. I have also undertaken projects related to renal toxicity.
- Being the **head of the department** looking after all departmental related activities necessary for the smooth functioning of the department.
- I have also been nominated as a scientific expert member by CPCSEA for the institutional animal ethical committee for the conduct of the meetings for the approval of experimental animals for postgraduate students, maintaining the record of the meeting and the animal house facility and coordination for procurement of animals from different sources.
- Acting as **associate editor** for international journal of pharmacy and engineering.
- I am a **life time member** of Indian Pharmacological Society (IPS) and Association of Pharmaceutical teachers of India (APTI)

### **Academic Record**

- **Ph.D** in the Faculty of Medicine from Department of Pharmaceutical Sciences and Drug Research. Punjabi University, Patiala. India

**Research project undertaken: Pharmacological exploration of selected nuclear receptors as potential target in experimental dementia.**

- **M. Pharmacy (Pharmacology)** from Department of Pharmaceutical Sciences and Drug Research. Punjabi University, Patiala.

**Research Project undertaken: Modulation of ischemia and reperfusion induced myocardial injury with PARP and Caspase inhibitors.**

- **General aptitude test in engineering conducted by Indian Institute of Technology in the year 2001:** Qualified with **92.43** percentile score
- **B.Pharmacy:** Passed in 2001, Dept. of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala.
- Have completed a distance learning program on “General Course on Intellectual Property” from **World Intellectual Property Organization, Geneva.**

#### **Work Area:**

- Currently conducting General Pharmacology and Anatomy, Physiology experiments for the undergraduate curriculum and projects. These include models for evaluating disorders such as elevated plus maze, forced swimming test, pole climbing test, rota rod, pyloric ligation, carotid ligation and actophotometer.
- Well versed with various techniques such as isolated tissue preparations, different route of administrations, perfused frog heart, Langendroff’s heart preparation, anaesthetized dog blood pressure and effect of various drugs, pD<sub>2</sub> and pA<sub>2</sub> calculations, and biostatistics.
- Exposure to Gel electrophoresis, UV spectrophotometer, BIOPAC software, Fluorescent microscope, Potentiometer and various instruments used in experimental pharmacology.
- Knowledge about regulatory requirements of manufacturing, clinical trials, analytical validation, and ICH stability requirements.
- Knowledge of intellectual property rights.

#### **Academic proficiency:**

**Total citations: 420**

**h-index-9**

**i10 index-9**

**Cumulative impact factor: 55.1**

#### **Major International publications**

- Sodhi RK, Singh M, Aulakh, G. An update on non-peptide angiotensin receptor antagonists and related RAAS modulators. 2007. **Life Sciences**. 81(8), Pg. 615-39. **(Impact factor 2.2)**
- Sodhi RK, Singh M, Aulakh, G. Cell suicide and Caspases. 2007 **Vascul Pharmacol**. 46(6), Pg. 383-93. **(Impact factor 4.6)**

- Sodhi RK, Singh M, Singh N, Jaggi AS. Protective role of Ac-LEHD-cmk and 5- aminoisoquinolinone in ischemia and reperfusion induced apoptotic and necrotic cell death. 2009 **Arch Pharm Res.** 32(7), Pg. 1037-43 (**Impact factor 1.75**)
- Sodhi RK, Singh N, Jaggi AS. Poly (ADP-ribose) polymerase-1 (PARP-1) and its therapeutic implications. 2010. **Vascul Pharmacol.** Elsevier 53(3-4), Pg. 77-87. (**Impact factor 4.6**)
- Sodhi RK, Singh N and Jaggi AS. Neuroprotective mechanisms of peroxisome proliferator-activated receptor agonists in Alzheimer's disease. 2011 **Naunyn-Schmiedeberg's Archives of Pharmacology.** 384 (2), Pg.115-124. (**Impact factor 2.3**)
- Sodhi RK, Singh N. Defensive Effect of Lansoprazole in Dementia of AD Type in Mice Exposed to Streptozotocin and Cholesterol Enriched Diet. Pg No. e70487 2013 2013 PLOS one, 8 (7), Pg. e70487. (**Impact factor 3.5**)
- Sodhi RK, Singh N. All-trans retinoic acid rescues memory deficits and neuropathological changes in mouse model of streptozotocin-induced dementia of Alzheimer's type. 2013. **Progress in Neuropsychopharmacol. and Biological Psychiatry.** 40, Pg. 38-46. (**Impact factor 4**)
- Sodhi RK, Singh N. Liver X receptors: emerging therapeutic targets for Alzheimer's disease. 2014 *Pharmacological Research*, 72, Pg. 45-51. (**Impact factor 3.9**)
- Sodhi RK, Singh N. Retinoids as potential targets in Alzheimer's disease. 2014 *Pharmacology biochemistry and behavior.* 120, Pg.117-123 (**Impact factor 2.8**)
- Sodhi RK, Singh N. Liver X receptor agonist T0901317 reduces neuropathological changes and improves memory in mouse models of experimental dementia Pg no. 50-59 2014. *European journal of pharmacology.* 732, Pg. 50-59 (**Impact factor 2.6**)
- Sodhi RK, Neha, Singh N, Jaggi AS. Animal models of dementia and cognitive dysfunction. 2014. *Life sciences.* 109(2), Pg.73-86 (**Impact factor 2.2**)
- Sodhi RK, Neha, Singh N, Jaggi AS. Silymarin ameliorates memory deficits and neuropathological changes in high fat diet (HFD) induced dementia of Alzheimer's type in mouse 2014 **Naunyn-Schmiedeberg's Archives of Pharmacology.** 387(8), Pg. 777-787. (**Impact factor 2.3**)
- Sodhi RK, Prabhjot Kaur. Memory recuperative potential of rifampicin in aluminium chloride induced experimental dementia: probable participation of pregnane x receptors. 2015 **Neurosciences.** 244, 24-36. (**Impact factor 3.5**)
- Sodhi RK, Rohit Mehra, Neha. Memory restorative ability of clioquinol in copper-cholesterol induced experimental dementia in mice. 2015 **Pharmaceutical Biology.** 1-10 (**Impact factor 1.7**)
- Wheat germ agglutinin anchored chitosan microspheres of reduced brominated derivative of noscipine ameliorated acute inflammation in experimental colitis. 2015. **Colloids and biosurfaces B: Biointerfaces.** 132, 225-235 (**Impact factor 4.3**)
- Rupinder Kaur, Rupinder Kaur Sodhi, Neha Aggarwal, Jaspreet Kaur and Upendra K. Jain Renoprotective effect of lansoprazole in streptozotocin-induced diabetic nephropathy

in wistar rats. (2015) **Naunyn-Schmiedeberg's Arch Pharmacol.** 015-1182-1186. **(Impact factor 2.3)**

- Anu Rani, Neha, Rupinder K. Sodhi Amanpreet Kaur. Protective effect of a calcium channel blocker diltiazem on aluminum chloride-induced dementia in mice. 2015**Naunyn-Schmiedeberg's Arch Pharmacol** **388:1151–1161. (Impact factor 2.3)**
- Saini N, Sodhi RK, Bajaj L, Pandey RS, Jain UK, Katare OP, Madan J. Intravaginal administration of metformin hydrochloride loaded cationic niosomes amalgamated with thermosensitive gel for the treatment of polycystic ovary syndrome: In vitro and in vivo studies. 2016. **Colloids Surf B Biointerfaces.** 8; 144: 161-169. **(Impact factor 4.3)**

#### **Participated and attended various national and international conferences viz.**

- International conference on pathophysiology and drug therapy of cardiovascular Disorders, Patiala (2001)
- Joint International conference Joint international Society for Heart Research and international Academy of cardiovascular Sciences, Lucknow (2004)
- International Symposium on recent advances in pharmacology, Delhi (2004)
- APTI-12<sup>th</sup> Annual National Convention, P.U. Chandigarh (2007)
- National conference on innovations in drug discovery and research, Punjabi university, Patiala (2009)
- Symposium on Management of Experimental Animals and Alternatives, PTU sponsored, COP, Bela (Ropar) (2013).
- National Conference on Industry-Academia collaboration in Pharma sector: Necessity in present scenario. Hindu College of Pharmacy, Sonapat (2013).
- Alternatives to animal use, PTU sponsored, Rayat and Bahra University, Kharar. (2014)

#### **QIP PROGRAMME ATTENDED**

- Participated in ISTE, New Delhi & PTU, Jalandhar sponsored Faculty development programme 10-14 June, 2014 " Innovations in Pharmaceutical and chemical technology" held at Chandigarh College of Pharmacy, Landran, Mohali.
- Attended an “International workshop on advanced scientific writing skills” 10th Nov, 2014 at Chandigarh College of Pharmacy, Landran, Mohali.
- Participated in PITTTR & PTU, Jalandhar sponsored Faculty development programme 9-13 March 2015 " Next generation drugs and drug delivery systems : Future prospective" held at Chandigarh College of Pharmacy, Landran, Mohali.

