Dr. Sapana Kushwaha

Qualification: M.S.(Pharm), Ph.D.(Pharmacology and Toxicology) **Age:** 34

Contact and Email ID: 7524933450; sapna.pharm@gmail.com

Designation

Assistant Professor, Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, India

Area of Specialization

Diabetes, Muscle atrophy, Germ cell toxicity, Fibrosis

Research Project

Repurposing of antidiabetic drugs in skeletal muscle atrophy (CSIR-Postdoctoral Project)

Patents

S. Sanyal , H. Kumar , N. Chattopadhyay , R. Ramachandran , A.K. Trivedi , S. Shree , A. A. Gurjar, S. Chattopadhyay , **S. Kushwaha** , A.K. Singh , S. Dubey , K. Lata, R. Mohammed , J.R. Gayen , A.K. Tripathi. Treatment and cure of chronic myelogenous leukemia *via* modulation of PPARγ activity by clofazimine. (Provisional PATENT filing month July, 2017)

Publications and other than journal articles (Books, chapters in books)

Nil

Research Publications (Total publications:17)

(Cumulative Impact Factor- 49.2) (Average Impact Factor-2.89) (H index-9)

1. **S. Kushwaha** and G.B. Jena. (2013) "Telmisartan ameliorates the germ cell toxicity in STZ-induced diabetic rat: Studies on possible molecular mechanisms". **Mutation Research**, 755,11-23. **(Impact factor- 2.7), Citation:26**

2. **S. Kushwaha** and G.B. Jena. (2013) "Effects of nicotine on the testicular toxicity of STZ-induced diabetic rat: Intervention of enalapril". **Human and Experimental Toxicology**, 1-15. **(Impact factor- 1.9), Citation:4**

3. **S. Kushwaha** and G.B. Jena. (2012) "Enalapril Reduces Germ Cell Toxicity in Streptozotocin-Induced Diabetic Rat: Investigation on Possible Mechanisms". **Naunyn Schmiedebergs Archive of pharmacology**, 385, 111-124. **(Impact factor- 2.9), Citation:18**

4. **S. Kushwaha**, A. Vikram and G.B. Jena. (2012) "Protective effects of enalapril in streptozotocin-induced diabetic rat: Studies with DNA damage, apoptosis and expression of CCN2 in the heart, kidney and liver". **Journal of Applied Toxicology**, 32**,** 662-672. **(Impact factor- 3), Citation:14**

5. **S. Kushwaha**, A. Vikram, P.P. Trivedi and G.B. Jena. (2011) "Alkaline, Endo-III and FPG modified comet assay as biomarkers for the detection of oxidative DNA damage in rats with experimentally induced diabetes". **Mutation Research**, 726, 242-250. **(Impact factor- 2.7), Citation:20**

6. **S. Kushwaha**, D. N. Tripathi, A. Vikram, P. Ramarao and G.B. Jena. (2010) "Evaluation of multi-organ DNA damage by comet assay from 28 days repeated dose oral toxicity test in mice: A practical approach for test integration in regulatory toxicity testing". **Regulatory Toxicology and Pharmacology**, 58,145-154. **(Impact factor- 2.7), Citation:8**

7. S.P. China, S. Pal, S. Chattopadhyay, K. Porwal, **S. Kushwaha,** S. Bhattacharyya, M. Mittal, A.A. Gurjar, T. Barbhuyan, A.K. Singh, A.K. Trivedi, J.R. Gayen, S. Sanyal, N. Chattopadhyay (2017) "Globular adiponectin reverses osteo-sarcopenia and altered body

composition in ovariectomized rats". **Bone**. Aug 12;105:75-86. doi: 10.1016/j.bone.2017.08.005. [Epub ahead of print] **(Impact factor- 3.5), Citation: 1**

8. M. Yadav, A. K. Singh, H. Kumar, G. Rao, B. Chakravarti, A. A. Gurjar, S. Dogra, **S. Kushwaha**, A. L. Vishwakarma, P. N. Yadav, D. Datta, A. K. Tripathi, N. Chattopadhyay, A. K. Trivedi, S. Sanyal (2016) "Epidermal growth factor receptor inhibitor cancer drug gefitinib modulates cell growth and differentiation of acute myeloid leukemia cells via histamine receptors". **Biochim Biophys Acta** Oct;1860(10):2178-90. doi: 10.1016/j.bbagen.2016.05.011. Epub 2016 May 11**(Impact factor- 5), Citation:6**

9. A. K. Singh, S. Shree, S. Chattopadhyay, S. Kumar, A. Gurjar, **S. Kushwaha**, H.Kumar, A. K. Trivedi, N. Chattopadhyay, R. Maurya, R. Ramachandran, S. Sanyal (2017) "Small molecule adiponectin receptor agonist GTDF protects against skeletal muscle atrophy" **Molecular and Cellular Endocrinology**, Jan 5;439:273-285. doi: 10.1016/j.mce.2016.09.013. Epub 2016 sep**(Impact factor- 3.7), Citation: 2**

10. S. Khan, T. Ahmed, C. Parekh, P.P. Trivedi, **S. Kushwaha** and G.B. Jena. (2011) "Investigation on Sodium valproate induced germ cell damage, oxidative stress and genotoxicity in male Swiss mice". **Reproductive Toxicology**, 32, 385-94. **(Impact factor- 3.3), Citation:44**

Conferences, Seminars and presented lectures

Conferences: 15 (2-International, 13-National)
Conference Proceedings: 01
Paper Presentations: 02
Poster Presentations: 13

Awards and Recognitions

- Bagged prestigious Indian post doctoral fellowship in form of CSIR-Nehru PDF in Oct 2014-Sep 2017.

- Published interview as a recipient of "International Toxicologist Travel Award Winner" 2014 in **Association of Scientists of Indian Origin (ASIO)—SOT Aug 2014 newsletter *http://www.toxicology.org/isot/sig/asio/ASIONL_August14.pdf***. This award constitutes a plaque and a monetary award for attending 53rd SOT meeting, Arizona, USA

- "Graduate Student Travel Award" by Society of Toxicology (SOT), USA to attend 53rd SOT meeting, Arizona, USA, 2014. This award constitutes a monetary award.

- Research paper 'Evaluation of multi-organ DNA damage by comet assay from 28 days repeated dose oral toxicity test in mice: A practical approach for test integration in regulatory toxicity testing' **S. Kushwaha**, D. N. Tripathi, A. Vikram, P. Ramarao and G.B. Jena. (2010) **Regulatory Toxicology and Pharmacology**, 58,145-154 has been cited for "OECD Guideline for The Testing of Chemicals, *In vivo* Mammalian alkaline comet assay and Rodent alkaline single cell gel electrophoresis (Comet) assay **(*In vivo* Mammalian alkaline comet assay OECD GUIDELINE 489).**

- International Travel Support (ITS) granted by Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India (SB/ITS-Y/04949/2013-2014).
- International Travel Support (ITS)" granted by Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India (SB/ITS/05182/2014-2015).
- Selected in Women Scientists Scholarship Scheme, 2009 organized by Technology Information, Forecasting and Assessment Council (**TIFAC under Department of Science & Technology**) **(Not availed).**

Memberships of the Professional Bodies

- Society for Toxicology (STOX), India
- Society for Toxicology (SOT), USA

Date: 14.03.2018 **(Sapana Kushwaha)**