

# DR KUNJBIHARI SULAKHIYA, MS, PHD

ASSISTANT PROFESSOR (PHARMACOLOGY), DEPARTMENT OF PHARMACY, INDIRA GANDHI NATIONAL TRIBAL UNIVERSITY, LALPUR, AMARKANTAK, (M.P.)–484887.

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## OBJECTIVE

Intend to build a career in academic research and development with a leading organization in a hi-tech environment with committed and dedicated people, which will help me to explore myself fully and realize my potential.

Willing to work as an efficient staff member and effectively contribute to the success of my organization.

## EDUCATION

Year	Degree/ Certificate	Institute	Board/university	CGPA/ %
2015	PhD Pharmacology and Toxicology	NIPER, Guwahati	NIPER, Guwahati	9/10
2010	M.S.(Pharm) Pharmacology and Toxicology	NIPER, Guwahati	NIPER, Guwahati	8.24/10
2008	B. Pharm	COP, IPS Academy Indore	RGPV Bhopal	68.20%
2005	D. Pharm	Govt. S.V. Poly. College, Bhopal	RGPV Bhopal	67.99%
2002	H.S.S.C. (Class XII)	Govt. High. Sec. Sch. Chand	MP Board Bhopal	81.55%
2000	H.S.C. (Class X)	Govt. High. Sec. Sch. Chand	MP Board Bhopal	87.67%

## AREA OF RESEARCH INTEREST

- Neuropharmacology (Identification of biomarkers and therapeutic targets for neuropsychiatric disorders including Autism Spectrum Disorder, Cognitive Dysfunction and Depression)

## AWARDS & ACHIEVEMENTS

- **State Researcher Award ('24)**
- **Outstanding Assistant Professor Award ('24)**
- **Brain Awareness Week 2024 Award ('23)**
- **IBRO Meeting Support 2023 Award ('22)**
- **CAEN-ISN Award for Research Supplies to the Home Laboratory ('20)**
- **ISN-ASN Travel Award to attend ISN-ASN Meeting in Montreal, Canada ('19)**
- **ISN-APSN Fellowship to attend ISN-APSN Neuroscience School and APSN biennial meeting in Macau, SAR, China ('18)**
- **ISN Fellowship to attend ISN advanced school and ISN-ESN biennial meeting in Paris, France ('17)**
- **JNS Travel Award for Neuroscience 2017 to attend the 40<sup>th</sup> Japanese Neuroscience Society (JNS) in Chiba City, Japan ('17)**
- **APDBN Travel Fellowship to attend CDB Symposium 2017 "Towards Understanding Human Development, Heredity, and Evolution" Kobe, Japan ('17)**

- **National Tribal Pride Award for works done for the tribal people of India ('17)**
- **SfN-IBRO International Travel Award to attend SfN Neuroscience meeting 2016 in San Diego, USA ('16)**
- **Ranked 256 in GPAT conducted by AICTE ('15)**
- **Summer Research Fellowship by the Indian Academy of Sciences (March 15)**
- **IBRO fellowship to attend 1<sup>st</sup> IBRO/APRC Chandigarh Neuroscience School (Nov 14)**
- **NIPER-Senior Research Fellowship (2013-2014) and Junior Research Fellowship (2011-2013) from the Department of Pharmaceuticals, Govt of India**
- **Ranked 12 in NIPER-JEE conducted by NIPER for PhD ('11)**
- **NIPER fellowship (2008-10) from Department of Pharmaceuticals, Govt of India**
- **Ranked 314 in NIPER-JEE conducted by NIPER for Master's ('08)**
- **Ranked 156 (99.41 percentile) in GATE conducted by IIT & IISc ('07, 08)**

#### TECHNICAL PROJECTS

- **Doctoral Thesis: Honokiol intervention ameliorates lipopolysaccharide-induced sickness behaviour, depression and liver damage in mice: inhibition of inflammatory cytokines, and oxido-nitrosative stress, and up-regulation of BDNF level.** The aim was to evaluate the anti-anxiety, antidepressant activity and hepatoprotective effect of honokiol in LPS-challenged mice. To confirm this, we performed behavioural tests, and estimation of cytokines, e.g. IL-1 $\beta$ , IL-6, & TNF- $\alpha$  and oxidative/nitrosative stress in the hippocampus and prefrontal cortex was also done. Hippocampal & plasma BDNF levels, plasma corticosterone & pro-inflammatory cytokines levels were also measured. The role of inflammatory cytokines and oxidative stress in LPS-induced sickness behaviour and liver damage was also investigated. Based on data collected, honokiol is a promising agent for the treatment of neuropsychiatric disorders and liver damage. (Aug '14).

#### RESEARCH GRANTS/PROJECTS (COMPLETED/ONGOING)

1. **CAEN-ISN Award for Research Supplies to the Home Laboratory on Autism Research (2020-2022)**
2. **UGC-Start Up project** entitled "Mechanistic investigation ..... in mice" as **Project Investigator** from **UGC**, (2018-2020).
3. **DBT project** entitled "Development and optimization of ..... for Ophthalmic Applications" as **Co-PI** from **DBT**, (2018-2021).

#### PATENTS

1. **Patent granted on "Apparatus for measurement of anxiety in rodents" (409317-001).**  
(Contributor: **Dr Kunjbihari Sulakhiya, Anglina Kisku, Ramu Singh**)

#### TRAINING

- **Indian Institute of Science (IISc), Bengaluru** **Research**  
(May 11 to July 11, 2015 – 2 months)
  - Worked on the project "Biochemical and molecular changes in offspring of Poly I: C injected pregnant C57BL/J mice"
  - Learned qRT-PCR, Western blotting, Gene cloning, ISH (In situ hybridization), etc.
- **Tropical Forest Research Institute (TFRI), Jabalpur** **Instrumentation**  
(Feb 23-27, 2015 – 5 days)
  - Hands-on training in **HPLC, HPTLC, UV-visible, PCR, Gel electrophoresis, Soxhlet apparatus, Rotary evaporator, etc.**

- **Syngene International Ltd., Bengaluru** **Research and Development**  
Trainee pharmacologist  
(May 2011 to August 2011- **3 months**)
  - Validation of MIA, ACLT and MMT-induced Osteoarthritis model in SD rats
  - Neuropathic Pain – Chronic Constriction Injury (CCI), Partial Sciatic Nerve Ligation (PSNL), Spinal nerve ligation (SNL) in SD rats
- **Alkem Laboratories Ltd., Mumbai** **Research and Development**  
(June 2007 to July 2007 – **4 weeks**)
  - **Dissolution testing** of drugs in the analytical department
  - Searching present formulations of a particular drug in the PMT department

## EXPERIENCE

- **Department of Pharmacy, Indira Gandhi National Tribal University (IGNTU) Amarkantak (M.P.)**  
**Assistant Professor,** **Academic and Research**  
July 2017 to date (**8.0 years**)
  - Teaching Human Anatomy and Physiology, Pharmacology, Pharmacovigilance.
  - Research on Herbal Medicines for the treatment of neurological, metabolic and hepatic disorders.
- **Centre for Excellence for Indigenous Knowledge, Indira Gandhi National Tribal University (IGNTU), Amarkantak (M.P.)**  
**Assistant Professor,** **Academic and Research**  
(Jan 2016 to July 2017 – **1.6 yrs.**)
  - Development of plant-derived therapeutic agents for brain disorders.
  - Collection of knowledge about medicines from the Tribal and their Pharmacological evaluation
  - Entrepreneurship development among the tribal through indigenous knowledge
- **AIPER, Indore** **Academic**  
**Assistant Professor**  
(Aug 2010 – May 2011 – **0.9 Year**)

## TECHNICAL AND PERSONAL SKILLS

- Good communication skills, Hard-working and confident
- Experimental protocol design for *in vivo* study
- Blood collection: Retro orbital plexus, heart puncture, tail vein, jugular vein.
- Capable in drug administration (all routes) to Rats, Mice, and Rabbits
- Cannulation: Jugular vein and femoral vein
- *In vitro* experiments on isolated preparations: Ileum, jejunum, colon, trachea and uterus
- Isolation of different organs from rats and mice

## RESEARCH GUIDANCE/CREDENTIALS

- **PhD** : **2 (Completed) + 1 (Ongoing)**
- **M. Pharm** : **6 + 2 (Ongoing)**
- **B. Pharm (Project)** : **30 + 6 (Ongoing)**  
Total Citation – **1611**; H-index – **17**; i-10 Index – **19**

## SOFTWARE PROFICIENCY

- **Software in R & D:** HPLC-ECD, StepOne plus (RealTime PCR), Any maze (behavioural study)
- **Software:** MS Word, MS Excel, MS PowerPoint, GraphPad Prism
- **Operating System:** Windows 98/XP/Vista/win7, DOS

## EQUIPMENT HANDLED

- Real-Time PCR (ABI, Life Technologies)
- ELISA reader (Multiskan, ThermoFisher scientific)
- HPTLC (CAMAG), HPLC-ECD (Dionex & Water)
- UV spectrophotometer (Shimadzu), Semi Autoanalyzer (Erbeka)
- Elevated plus maze, open field, Rotarod and Actophotometer
- Plantar tester (Hargreaves Apparatus, UGO Basile)
- Dynamic plantar aesthesiometer (Von Frey filament, UGO Basile)
- Grip strength meter, Tread Mill
- Plethysmometer, Analgesiometer, Electroconvulsimeter
- Rotary evaporator, Dissolution Apparatus etc.

## MONOGRAPH/BOOK/BOOK CHAPTER

1. **Sulakhiya K**, Singh R, Paliwal R. Regulatory Toxicological Assessment of Nanomedicines. In *Nanomedicine, Nanotheranostics and Nanobiotechnology 2025* (pp. 163-176). CRC Press.
2. **Sulakhiya K**, Paliwal R, Kisku A, Sahu M, Aditya S, Soni P, Maru S. Experimental Tools as an "Alternative to Animal Research" in Pharmacology. In *Software and Programming Tools in Pharmaceutical Research 2024* Mar 25 (pp. 170-206). Bentham Science Publishers.
3. **Kunjbihari Sulakhiya**, Devendra Kumar Masram, Moni Khan, Ramu Singh. Indigenous Medicinal Knowledge practices among tribes of Amarkantak Region. (In Press)
4. Paliwal, S. R., **Sulakhiya, K.**, Kumar, P., Maiti, S., & Paliwal, R. (2024). Hormonal delivery systems. In *Molecular Pharmaceutics and Nano Drug Delivery* (pp. 103-134). Academic Press.
5. Mutha, R.E., Bafna, P.S., Dwivedi, A., Dubey, A., Khabiya, R., Kumar, D., Jha, S.K., Ghode, P., **Sulakhiya, K.**, Maru, R. and Shah, K. (2023). Role of Block Copolymers in Targeted Drug Delivery. In *Block Co-polymeric Nanocarriers: Design, Concept, and Therapeutic Applications* (pp. 299-326). Singapore: Springer Nature Singapore.
6. **Sulakhiya, K.**, Soni, P., Tembhre, M.K., Kungumaraj, H.J., Paliwal, R. and Kumar, S. (2024). Physiology and pharmacology of wounds. In *Nanotechnological Aspects for Next-Generation Wound Management* (pp. 21-54). Academic Press.
7. **Sulakhiya, K.**, Kisku, A., Paliwal, R., Gupta, D.K., Yadav, Y., Pal, A. and Kumar, S. (2023). Nanodiagnosics and nanomedicines for neurodegenerative disorders. In *Nanotechnology for Drug Delivery and Pharmaceuticals* (pp. 131-163). Academic Press.
8. Tiwari, A., Joshi, M., Kenwat, R., Paliwal, S.R., **Sulakhiya, K.** and Paliwal, R. (2023). Nanophytomedicine: nanotechnology for herbal product development and value addition. In *Phytopharmaceuticals and Herbal Drugs* (pp. 197-212). Academic Press.
9. Kisku A, **Sulakhiya, K.** (2022). Cell-based therapy for the treatment of neuropsychiatric disorders. *APTI Women's Forum Newsletter*, pg. 29-34.
10. Paliwal, R., **Sulakhiya, K.**, Paliwal, S. R., Singh, V., Kenwat, R., & Paramanik, D. (2022). Role of nanoparticles in neurotoxicity. In *Nanomaterial Drug Delivery for Neurodegenerative Diseases* (pp. 165-182). Academic Press.
11. **Sulakhiya, K.** Community Medicine and Tribal Medicinal Knowledge (2020). In *Anthology on COVID-19 Pandemic and Rural Tribal India*. (pp. 215-232). Bharati Prakashan.
12. Paliwal R, Paliwal SR, **Sulakhiya K**, Kurmi BD, Kenwat R, Mamgain A (2019). Chitosan-based nanocarriers for ophthalmic applications. In *Polysaccharide Carriers for Drug Delivery* (pp. 79-104). Woodhead Publishing.

13. Barua CC, **Sulakhiya, K.** Lipopolysachharide-induced Depressive like behaviour in Laboratory animals for the Development of Antidepressant Drugs (2014). In *Ethanopharmacology: Indian Trends, Perspectives and Innovation*. Edited by Dr Rakesh Kumar, Published by Nitin Garg for Radha Publications; New Delhi (India). ISBN 978-81-7487-947-9.

#### EDITORIAL BOARD MEMBER/REVIEWER OF JOURNALS

- **Project Grant Reviewer: Health and Medical Research Fund (HMRF) under The Government of the Hong Kong Special Administrative Region (HKSAR)**
- ACS Chemical Neuroscience (**IF – 4.36**)
- Progress in Neuro-Psychopharmacology & Biological Psychiatry (**IF – 3.68**)
- Metabolic Brain Disease (**IF- 2.63**)
- International Journal of Medical Sciences (IJME) (**IF – 2.2**)
- Medical Science Monitor (**IF – 1.43**)
- Biomedical Research-India (**IF – 0.2**)
- Zoological Research (**IF – 1.5**)

#### MEMBERSHIP OF SCIENTIFIC ORGANIZATION

1. **International Society of Neurochemistry (ISN) (Member ID - 23597), Switzerland**
2. **Life Membership of Indian Academy of Neurosciences (IAN) (LS-277), India**
3. **Life Member of the Association of Pharmaceutical Teachers of India (APTI) (MP/LM-806), India**
4. **Asia-Pacific Society for Neurochemistry (APSN) (23-0051-R), Singapore**
5. **International Brain Research Organization (IBRO), France**

#### PUBLISHED PAPER/ABSTRACT

1. Kisku A, Nishad A, Agrawal S, Paliwal R, Datusalia AK, Gupta G, Singh SK, Dua K, **Sulakhiya K.** Recent developments in intranasal drug delivery of nanomedicines for the treatment of neuropsychiatric disorders. *Frontiers in Medicine*. 2024 Sep 19;11:1463976.
2. Ramu Singh, Anglina Kisku, **Kunjibhari Sulakhiya.** Chrysin Alleviates Maternal Immune Activation-Induced Autistic-Like Behavior by Altering IL-17A Levels in Fetal and Offspring Brains of C57BL/6J Mice. *Journal of Biological Regulators and Homeostatic Agents*. 2024, 38(8): 5721-5732  
<https://doi.org/10.23812/j.biol.regul.homeost.agents.20243808.459>
3. Vishwakarma A, Yadav H, Lakra P, **Sulakhiya K,** Paliwal R, Maiti S. Madhuca indica oil-entrapped buoyant galactomannan hydrogel microspheres for controlling epileptic seizures. *International Journal of Biological Macromolecules*. 2024 May 31; 232:132739.
4. Malaiya A, Kenwat R, Mangain A, Paliwal SR, **Sulakhiya K,** Maiti S, Paliwal R. QbD-based optimization and evaluation of chitosan-adorned nanostructured lipid carriers for nose-to-brain delivery of 17 $\beta$ -Estradiol in rat model of Alzheimer's disease. *Journal of Drug Delivery Science and Technology*. 2024 Jun 1;96:105716.  
<https://doi.org/10.1016/j.jddst.2024.105716>
5. Ramu Singh, Anglina Kisku, Vijay Paramanik, Haripriya J. Kungumaraj, Dhruv Patel, Suneel Kumar, **Kunjibhari Sulakhiya.** Recent Updates on Modifiable Risk Factors Involved in the Pathogenesis of Autism Spectrum Disorders. *Journal of Biological*

6. **Kunjbihari Sulakhiya**, Sushim Kanchan, Haroon Ansari, Anglina Kisku. Role of Social Media for Drug Safety Signal Detection. *Indian J. Pharm. Edu. Res.*, 2024, 58 (1s), s9-s25.
7. Anglina Kisku, **Kunjbihari Sulakhiya**. Evaluation of Antioxidant and Anti-Inflammatory Activity of *Acorus calamus* Essential Oil Using *in Silico* and *in Vitro* Methods. *Journal of Biological Regulators and Homeostatic Agents*. 2024, 38(2): 1057-1067.  
<https://doi.org/10.23812/j.biol.regul.homeost.agents.20243802.84>
8. Kakoty, V., Kumar, S., Parasar, S., Pamthied, S., Wardhan, Y., Vishwas, S., Gulati, M., Gupta, G., **Sulakhiya, K.**, Dua, K. and Singh, S.K., 2024. Unravelling the role of nutraceutical supplements in treatment of Parkinson's Disease. In *BIO Web of Conferences* (Vol. 86, p. 01045). EDP Sciences.
9. Shukla S, Sharma P, Gupta P, Pandey S, Agrawal R, Rathour D, Kumar Kewat D, Singh R, Kumar Thakur S, Paliwal R, Sulakhiya K. Current Scenario and Future Prospects of Adverse Drug Reactions (ADRs) Monitoring and Reporting Mechanisms in the Rural Areas of India. *Current Drug Safety*. 2024 May 1;19(2):172-90.
10. Agrawal R, Yadav H, Patel J, Sulakhiya K, Maiti S. Inorganic metal salts as additives in the design of cellulose/arabinogalactan hydrogels for prolonged delivery of simvastatin in simulated bio-fluids. *Journal of Vinyl and Additive Technology*. 2024 Mar;30(2):515-29.  
<https://doi.org/10.1002/vnl.22065>
11. Singh, R., **Sulakhiya, K.** Pharmacological effect of carvacrol against poly (I: C) induced neuropsychiatric disorder in mice. ISN-ESN 2023 Meeting, Porto, Portugal, 8-11 August 2023 166 (SI), 137-137.
12. Hussain MS, Afzal O, Gupta G, Altamimi AS, Almalki WH, Alzarea SI, Kazmi I, Kukreti N, Gupta S, **Sulakhiya K**, Singh SK. Probing the Links: Long Non-Coding RNAs and NF-κB Signalling in Atherosclerosis. *Pathology-Research and Practice*. 2023 Aug 18;249:154773.
13. Singh R, Kisku A, Kungumaraj H, Nagaraj V, Pal A, Kumar S, **Sulakhiya K**. Autism Spectrum Disorders: A Recent Update on Targeting Inflammatory Pathways with Natural Anti-Inflammatory Agents. *Biomedicines*. 2023 Jan 3;11(1):115. doi: 10.3390/biomedicines11010115. PMID: 36672623.
14. Anglina Kisku, **Kunjbihari Sulakhiya**. Cell-based therapy for the treatment of neuropsychiatric disorders. APTI Women's Forum Newsletter, Aug-Dec 2022, pg. 29-34.
15. Kumar S, Fritz Z, **Sulakhiya K**, Theis T, Berthiaume F. Transcriptional Factors and Protein Biomarkers as Target Therapeutics in Traumatic Spinal Cord and Brain Injury. *Current Neuropharmacology*. 2020;18(11):1092-1105. doi: 10.2174/1570159X18666200522203542.
16. Bordone, MP, Mootaz MS, Haley ET, Elham A, Jens VA, Barnali C, Artem VD, **Sulakhiya K** et al. "The energetic brain—A review from students to students." *J Neurochem*. 2019;151(2):139-165.
17. **Sulakhiya K**, Paramanik V. Esculetin ameliorates poly(I: C)-induced autism spectrum disorder in mice by impeding neuroinflammation and improving BDNF signaling. In *J. Neurochem*. 2019: Jul 1 (Vol. 150, pp. 88-89). **IF 4.083**
18. Barua, C. C.; **Sulakhiya, K.**; Haloi, P.; Buragohain, L; Saikia, B.; Barua, IC; Pathak, DC.; Tamuli, S.; Elancheran, R.; Ren, X. Erygeron Linifolius Attenuates LPS-Induced Depressive-Like Behaviour in Mice By Impeding Neuroinflammation, Oxido-Nitrosative Stress, And Up-Regulation Of TrkB-BDNF And Monoaminergic Pathway In The Hippocampus. *Pharmacog. Magazine*. 2019;15:62, 92-103. **IF 1.26**
19. Barua, C. C.; Haloi, P.; Saikia, B.; **Sulakhiya, K.**; Pathak, D. C.; Tamuli, S.; Rizavi, H.; Ren, X. Zanthoxylum alatum abrogates lipopolysaccharide-induced depression-like behaviors in mice by modulating neuroinflammation and monoamine neurotransmitters in the hippocampus. *Pharm. Biol*. 2018, 56:1, 245-252, DOI: 10.1080/13880209.2017.1391298. **IF 1.91**

20. **Sulakhiya, K.;** Barua, C.C.; Paramanik, V. J. Mangiferin alleviates sleep deprivation-induced anxiety-and depressive-like behaviors, and memory deficits in mice. *J. Neurochem.* 2017, 142, 205. **IF 4.083**
21. Kumar Parveen, Barua Chandana, **Sulakhiya Kunjbihari**, Sharma Rajib. Curcumin ameliorates cisplatin-induced nephrotoxicity and potentiates its anticancer activity in SD rats: Potential role of curcumin in breast cancer chemotherapy. *Frontiers in Pharmacology*, 2017; 8:132. Doi: 10.3389/fphar.2017.00132. **IF 4.418**
22. Kumar P, Sulakhiya K, Barua CC, Mundhe N. TNF- $\alpha$ , IL-6 and IL-10 expressions, responsible for disparity in action of curcumin against cisplatin-induced nephrotoxicity in rats. *Molecular and cellular biochemistry.* 2017 Jul;431:113-22.
23. **Sulakhiya, K.;** Paramanik, V.; Barua, C.C. Honokiol Attenuates Acute Restraint Stress-Induced Depressive-Like Behaviour in Mice: Role of TrkB-BDNF Signalling Pathway. 49th Annual Conference of IPSCON-2016 53 (7), 388-664.
24. Ashok Jangra, Shubham Dwivedi, Satendra Gurjar, Mohit Kwatra, Sriram Chandra Shekhar, **Kunjbihari Sulakhiya**, Chandna C Barua, Mangla Lahkar. Honokiol abrogates chronic restraint stress-induced cognitive impairment and depressive-like behaviour by blocking endoplasmic reticulum stress in the hippocampus of mice. *European Journal of Pharmacology (Utrecht, Netherlands, ISSN: 0014-2999)*, 2016 Jan 5;770:25-32. doi: 10.1016/j.ejphar.2015.11.047. **IF 2.730 (Cited by 11)**
25. **Kunjbihari Sulakhiya**, Prateek Gohil, Shubham Dwivedi, Satendra Gurjar, Nitin Munde, Ashok Jangra, Babul Bezbaruah, Mangala Lahkar, Ranadeep Gogoi. Lipopolysaccharide induced anxiety-and depressive-like behaviour in mice is prevented by chronic pre-treatment of esculetin. *Neuroscience Letters (New Haven, Connecticut, USA, ISSN: 0304-3940)*, 2016 Jan 12;611:106-11. doi: 10.1016/j.neulet.2015.11.031. **IF 2.107 (Cited by 15)**
26. **Kunjbihari Sulakhiya**, Vikas Patel, Rahul Saxena, Jagrati Dashore, Amit K Shrivastava, Manoj Rathore. Effect of Beta vulgaris Linn leaves extract on anxiety- and depressive-like behavior and oxidative stress in mice after acute restraint stress. *Pharmacognosy Research (Bengaluru, India, ISSN: 0974-8490)*, 2016 Jan-Mar;8(1):1-7. doi: 10.4103/0974-8490.171100. **IF 1.256 (Cited by 7)**
27. Ashok Jangra, Prajapati Kasbe, Surya Narayan Pandey, Shubham Dwivedi, Satendra S. Gurjar, Mohit Kwatra, Murli Mishra, Athira K. Venu, **Kunjbihari Sulakhiya**, Ranadeep Gogoi, Nitul Sarma, Babul K. Bezbaruah, Mangala Lahkar. Hesperidin and Silibinin ameliorates aluminium-induced neurotoxicity: Modulation of antioxidants and inflammatory cytokines level in mice hippocampus. *Biol Trace Elem Res.* (San Diego, CA, USA, ISSN: 15590720), 2015 Dec;168(2):462-71. doi: 10.1007/s12011-015-0375-7. **IF 1.798 (Cited by 25)**
28. **Kunjbihari Sulakhiya**, Parveen Kumar, Satendra S Gurjar, Chandana C. Barua, Naba K Hazarika. Beneficial effect of honokiol on lipopolysaccharide induced anxiety-like behaviour and liver damage in mice. *Pharmacology, Biochemistry and Behavior (Chilly-Mazarin, France, ISSN: 0091-3057)*, 2015 Feb 26;132:79-87. doi: 10.1016/j.pbb.2015.02.015. **IF 2.82. (Cited by 10)**
29. **Kunjbihari Sulakhiya**, Parveen Kumar, Ashok Jangra, Naba K Hazarika, Chandana C. Barua, Mangala Lahkar. Honokiol abrogates lipopolysaccharide-induced depressive like behavior by impeding neuroinflammation and oxido-nitrosative stress in Mice. *European Journal of Pharmacology (Utrecht, Netherlands, ISSN: 0014-2999)*, 2014 Dec 5;744:124-31. doi: 10.1016/j.ejphar.2014.09.049. **IF 2.730 (Cited by 26)**
30. Ashok Jangra, Manish Lukhi, **Kunjbihari Sulakhiya**, Mangala Lahkar, Chandna C Barua. Protective Effects of Mangiferin against Lipopolysaccharide-Induced Depressive and Anxiety-like Behaviour in Mice. *European Journal of Pharmacology (Utrecht, Netherlands, ISSN: 0014-2999)*, 2014 Oct 5;740:337-45. doi: 10.1016/j.ejphar.2014.07.031. **IF 2.730 (Cited by 31)**

31. Rahul Saxena, **Kunjbihari Sulakhiya**, Manoj Rathore. Cichorium intybus Linn: a review of pharmacological profile. *Int J Curr Pharm Res (Bhopal, India, ISSN- 0975-7066)*, Oct-Dec 2014; 6(4): 11-5. **IF 4.237 (Cited by 3)**
32. Sanwar Mal, **Kunjbihari Sulakhiya**, Parveen Kumar, Mangala Lahkar, Babul Bezbaruah. Anti-diabetic, hypolipidemic and antioxidant activities of hydroethanolic root extract of *Rhus Mysurensis* Heyne in streptozotocin-induced diabetes in male Wistar rats. *Phcog J (Bangaluru, India, ISSN: 0975-3575)*, May/Jun 2014; 6(3): 62-71. **IF 1.25 (Cited by 1)**
33. Sathish Pitta, Bibin Baby Augustine, Eshvendar Reddy Kasala, **Kunjbihari Sulakhiya**, Vijay Ravindranath, Mangala Lahkar. Honokiol reverses depressive-like behavior and decrease in brain BDNF levels induced by chronic corticosterone injections in mice. *Pharmacognosy Journal (Bangaluru, India, ISSN: 0975-3575)*, September–October 2013 2013; 5: 211-5 <http://dx.doi.org/10.1016/j.phcgj.2013.08.004>. **IF 1.25 (Cited by 4)**
34. Santosh P, Venugopal R, Nilakash A S, **Kunjbihari S**, Dr. Mangala L. Antidepressant activity of methanolic extract of *passiflora foetida* leaves in mice. *Int J Pharm Pharm Sci (Bhopal, India, ISSN- 0975-1491)*, Nov 2011; 3(1): 112-5. **IF 1.59 (Cited by 39)**

#### CONFERENCE/SEMINAR/ORIENTATION & REFRESHER COURSES ATTENDED

- **Organized** an International Conference on “Nanopharmaceuticals and Neurological Disorders (ICNAND2023)” organized by the Department of Pharmacy, IGNTU, Amarkantak from February 2-4, 2023.
- **Attended FDP** on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE), New Delhi, October 18-22, 2021
- **Attended One-week ONLINE AICTE-RGPV Joint TTP** on the theme “Artificial Intelligence in Pharmaceuticals: Contemporary Status & Impending Prospects” organized by Chameli Devi Institute of Pharmacy, Indore from February 15-20, 2021.
- **National level e-Faculty Development Programme** on “Covid-19 Outbreak: Challenges and Opportunities in Higher Education” jointly organized by B. R. Nahata College of Pharmacy, Mandsaur and MPCST, Bhopal, M.P.
- **Attended an Online Two-Week Faculty Development Programme** on “Applications of Digital Technology and Tools in Teaching and Learning” organized by the Faculty of Social Science, IGNTU, Amarkantak from June 16-29, 2020.
- **Attended Brain Awareness Week (Competitions & Webinars)** organized by Gujrat Forensic Sciences and Centre for Cognitive and Brain Sciences (IIT Gandhinagar), funded by IBRO and Dana Foundation from May 22-28, 2020.
- **Attended the Online Faculty Development Programme** “Redefining the Role of Educator in Covid-19 Outbreak Era” through the online portal of Gujrat Technical University, Ahmedabad from May 11-16, 2020.
- **Attended an Online Refresher Course** in Pharmacy conducted by IIT BHU, Varanasi, through the online portal SWAYAM from November 2019 to February 2020.
- **Attended the Orientation Programme** at UGC-HRDC, Guru Ghasidas University, Bilaspur from 06/01/2020 to 25/01/2020.
- **Attended the ISN-APSN Neuroscience School 2018** (Macau) at Macau University of Science and Technology (MUST), Macau, SAR, China, from August 22-26, 2018
- **Joint-Organizing Secretary and Coordinator of Hospitality & Sightseeing Committee for National Seminar** on Emerging Trends in Drug Discovery, Pharmaceutical Science and Biomedical Research held on 17th - 18th March 2018, organized by the Department of Pharmacy, IGNTU, Amarkantak, M.P.

- **Attended the 14th ISN Advanced School of Neurochemistry** “The Energetic Brain” in Varennes Jarcy, France, from August 16-20, 2017

#### CONFERENCE/SYMPOSIUM/WORKSHOP ATTENDED

- **Resource Person** in an International Conference on “Approach to Pharmaceutical Insight through Interdisciplinary Research” organized by the School of Pharmacy, G H Rasoni University, Chhindwara, MP, India from October 27-28, 2023.
- **Resource Person** in the Brain Awareness Week 2023 organized by the Department of Pharmaceutical Sciences, Central University of Haryana from April 4-6, 2023.
- Attended NPTEL E-Awareness Workshop organized by IIT Madras on August 27, 2021.
- Attended 3 days “R & D Project Management” workshop organized by IGNTU, Amarkantak, September 1-3, 2021.
- Attended “Global Engagement Workshop 2021 on Neurodegenerative Diseases, supported by the International Brain Research Organization (IBRO) & and organized by the Department of Biomedical Engineering, School of Technology, North-Eastern Hill University (NEHU), Shillong, INDIA, October 1-5, 2021
- Attended IBRO-APRC Short Term Course on “Depression, Anxiety, Mental Stress, and Its Remedies in Light of Covid-19”, supported by International Brain Research Organization (IBRO) organized by the Department of Biomedical Engineering, School of Technology, North-Eastern Hill University (NEHU), Shillong, INDIA, December 14-16, 2021
- Attended 29th Annual Meeting of Indian Academy of Neurosciences (IAN), Theme: "NeuroGlia in Health and Disease" organized by Indian Institute of Science Education and Research Kolkata, Netaji Subhas Open University & CSIR-Indian Institute of Chemical Biology from December 16-19, 2021.
- Attended one day International Webinar on “Challenges and Opportunities for Pharmacist in the Present Epidemic COVID-19” organized by the Association of Registered Pharmacists in association with Divine International Pharmacy, Gwalior, India on May 2-3, 2020
- Attended IPGA Conclave 2020: Next Generation Pharmacist on “Digitalization, Future Jobs, Regulatory Mechanisms & Research Directions” organized by Amity University Uttar Pradesh, Noida and Indian Pharmacy Graduates Association, Delhi, India on May 10, 2020.
- Attended Webinar on “Reflections of Teaching Experiences with Google Classroom and G Suite for Online Teaching Learning in Pharmacy” organized by Kharvel Subharti College of Pharmacy, Swami Vivekanand Subharti University, Meerut, UP, India on May 15, 2020.
- Attended the National Conference on “Green Intellectual Property (Green IP) for Health Care Innovation Globally” organized by the School of Pharmacy and Research, People’s University, Bhopal (M.P.), India on May 16-17, 2020.
- Attended the National Webinar on “Academic Ethics and Plagiarism” organized by the Association of Pharmacy Teachers of India (APTI), India on May 19, 2020.
- Attended ISFCO 2020; International Conference on “COVID-19: Challenges in Testing, Prophylaxis and Management” organized by ISF College of Pharmacy, Moga, Punjab in association with All India Council for Technical Education, New Delhi (AICTE), Society of Pharmaceutical Education and Research (SPER), International Society for Pharmacoeconomics & Outcome Research on May 22-23, 2020.
- Workshop on “**Regional Workshop on Research-based pedagogy tools**” from 26-28 June 2019 organized by **IISER Pune, DBT and Newton Bhabha Fund** at Oriental University, Indore
- National Seminar on “**Importance of Intellectual Property Rights in Innovation Management**” organized by PHD Chamber of Commerce and Industry and IGNTU on July 26, 2018

- **Co-chaired** a technical session at the National Seminar on “**Indian Tribal Medicinal Plants Research: Challenges and Prospects**” organized by the **Department of Pharmacy, Indira Gandhi National Tribal University, Amarkantak (M.P.), India** on April 28-29, 2018.
- National seminar on “**Tribal Health Research: Opportunities and Challenges**” organized by **NIRTH-ICMR Jabalpur and IGNTU** at IGNTU Amarkantak.
- **82nd Annual Meeting of Indian Academy Sciences (IASc)** held at **Indian Institute of Science Education and Research (IISER), Bhopal** from **4th–6th November 2016**.
- National workshop on **Research Methodology and Basic Molecular Biology Techniques in Biomedical Research** organized by **NIPER Guwahati** on 14<sup>th</sup> and 15<sup>th</sup> June 2013
- Workshop on **Analysis of Biological Networks** held at **IIT Guwahati** during 6<sup>th</sup> -7<sup>th</sup> Nov 2012
- National symposium on **Pharmacovigilance** organized by Gauhati Medical College & Hospital and NIPER Guwahati, Guwahati on March 17, 2010
- Workshop on **Basics of Immunopharmacology and Pharmaco-genomic techniques** organized by Institute of Postgraduate Medical Education & Research (IPMER), Kolkata on Dec.9, 2009
- International Conference on “**Integrative and Personalized Medicine**” and 42<sup>nd</sup> Annual Conference of **Indian Pharmacological Society (IPSCON-09)**, Kolkata on Dec 10-12, 2009
- Workshop on **Scientific paper writing and research methodology** organized by **IAMM and ICMR** held at Gauhati Medical College & Hospital, Guwahati on April 24, 2009

#### ORAL/POSTER PRESENTATION/INVITED LECTURE

1. **Resource person** and given invited talk on “Value Based Education: Role of A Teacher” and “Journey of Inner: Self Exploration through Spirituality” in the **Faculty Induction Program** organized by MMTTC-IGNTU, Amarkantak from February 12 to March 9, 2024.
2. **Keynote Speaker (on Basics and Applications of Western Blotting in Pharmaceutical Research)** in the **DST-SERB Sponsored Karyashala (High-End Workshop) on “Flow Cytometry, qRT-PCR, Western Blotting and its Applications in Pharmaceutical Research”** organized by the **Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar (BBAU), Lucknow, India** from **March 7-13, 2024**.
3. **Resource Person (Poster Judge)** in Brain Awareness Week 2023, organized by Department of Pharmaceutical Sciences, Central University of Haryana, Mahendragarh, Haryana from April 3-5, 2024.
4. **Resource Person** “Vishwa mein Hindi ka badhta prabhav”
5. **Resource person** “Principles and Application of Behavioral Research” in the DST-STUTI Sponsored Training Program on “Biomedical Research Tools and Techniques” organized by the Department of Zoology, IGNTU, Amarkantak from February 6-12, 2023.
6. **Invited talk on** “The role of small-scale enterprises in solving unemployment problems” under SAGE Talk Series organized by SIRTS-P, Bhopal, January 20, 2022
7. **Resource Person** “Animal Models of Depression: Utilities and limitations in developing new molecules” in IBRO-APRC Associate School on “Animal Models of Neurobiology Research: Models to Molecules” organized by Department of Zoology, Indira Gandhi National Tribal University, Amarkantak, India from September 20-24, 2021
8. **Oral Presentation** on “Esculetin ameliorates anxiety-and depressive-like behaviour following lipopolysaccharide administration in mice” in Young Pharmacologist Symposium, organized by NIPER Raebareli & Indian Pharmacological Society from May 27-28, 2021.
9. **Invited talk** (as Resource person) in National Webinar on Ethnobotany on “Medicinal Plants and Drug Development” organized by Government Autonomous PG College Chhindwara (MP), on February 15, 2021.
10. **Poster Presentation on** “Esculetin attenuates restraint stress-induced anxiety-like and depressive-like behaviours and cognitive impairments in mice by impeding neuroinflammation and upregulation of BDNF level” in 5th HBP Student Conference on Interdisciplinary Brain Research (Virtual Conference) from 1–4 February 2021

11. **Talk** on “Covid-19 Migration and Public Health” in National Webinar on “Covid-19 and Population Migration: Socio-Economic Impact” organized by NSS Cell of IGNTU, Amarkantak, MP on July 11, 2020
12. **Invited talk** on “Pharmacy Profession and Entrepreneurship Development: A way forward post COVID-19 pandemic” at Sagar Institute of Pharmacy and Technology Gandhi Nagar, Bhopal on 31 May 2020.
13. **Talk** on “Enriched Environment and Mental Health during Covid-19” in “National webinar on “COVID-19 Crisis, Public Awareness and NSS”, organized by the National Service Scheme Cell, IGNTU, Amarkantak on May 29, 2020.
14. **Invited talk** on “4Es of Success: Enriched Environment, Enlightenment, Energy and Efficiency” at Arka Jain University, Jamshedpur on 21 May 2020.
15. **Invited talk** on “Health, Hygiene and Sanitation” in NCC Camp organized by 7 MP (I) Coy NCC, Shahdol from November 4-13, 2019 at IGNTU, Amarkantak on November 11, 2019.
16. **Invited talk** on “Natural anti-inflammatory agents as potential therapeutic drugs in neuropsychiatric disorders modulating BDNF signaling” in **IBRO Associate School from 3-9 March 2019 organized by Department of Zoology, IGNTU, Amarkantak**
17. **Poster Presentation** on “Esculetin ameliorates PolyI:C-Induced Autism Spectrum Disorder in Mice by Impeding Neuroinflammation and Improving BDNF Signaling” in ISN-ASN 2019 Meeting, August 04-08, 2019.
18. **Poster Presentation** on “Attenuation of sleep deprivation-induced depressive-like behavior and memory impairments in mice by esculetin: Modulation of neuroinflammation and BDNF-TrkB signaling pathway” in **ISN-APSN Advanced School of Neurochemistry, Macau, SAR, China, August 22-29, 2018.**
19. **Poster Presentation on** “An Overview on Drug Discovery and Drug Development” on World Pharmacist Day 25th September 2017, Organized by the Department of Pharmacy, IGNTU, Amarkantak (MP).
20. **Poster Presentation** on “Mangiferin alleviates sleep deprivation-induced anxiety-and depressive-like behaviors, and memory deficits in mice” in **14th ISN Advanced School of Neurochemistry taking place in Varennes, France, August 16-20, 2017.**
21. **Poster Presentation** on “Esculetin abrogates sleep deprivation-induced neurobehavioural and neurochemical changes in mice” in **CDB Symposium 2017, Kobe, Japan, March 27-29, 2017.**
22. **Oral Presentation on** “Ethnomedicinal Practices among Bharia tribes of Chhindwara District, Madhya Pradesh, India” in National Conference on Tribal Literature and Performance, in **Indira Gandhi National Tribal University, Amarkantak (M.P.), India, February 3-5, 2017.**
23. **Poster Presentation** on “Esculetin attenuates sleep deprivation-induced cognitive dysfunction by modulating neuroinflammation and TrkB-BDNF signalling pathway in mice” in **International Conference - Society for Neuroscience (SfN), Neuroscience 2016, San Diego, CA, USA, November 12-16, 2016.**
24. **Oral Presentation** on “Honokiol attenuates acute restraint stress-induced depressive-like behaviour in mice: Role of TrkB-BDNF signalling pathway” in **IPSCON-2016, PGIMER Chandigarh, India 20-23<sup>rd</sup> October 2016.**
25. **Oral Presentation** on “Quality education in tune with the changing educational paradigm” in **International Seminar on New Education Policy and NAMODI Framework, in Indira Gandhi National Tribal University, Amarkantak (M.P.), July 12-14, 2016.**
26. **Poster Presentation** on “Esculetin attenuates cyclophosphamide-induced cardiac damage in rats” in **International Conference on Innovations in Pharmaceutical Sciences in Sri Aurobindo Institute of Pharmacy, Indore (M.P.), Feb 27-28, 2016.**
27. **Young Innovative Mind Award (YIMA)** in National Conference on “Recent Advances in Biotechnologically Derived Drugs: From Discovery to Development” in Ravishankar College of Pharmacy, Bhopal (M.P.), March 21-22, 2015.

28. **Oral Presentation** on “Protective effect of Beta vulgaris leaves extract on acute restraint stress-induced depressive-like behavior in mice” in **National workshop cum Seminar in Indira Gandhi National Tribal University (IGNTU), Amarkantak (M.P.), March 9-11, 2015.**
29. **Poster Presentation- Kunjbihari Sulakhiya**, Ashok Jangra, Manish Lukhi, Mangala Lahkar, Chandana C. Barua: Mangiferin attenuates lipopolysaccharide induced depressive like behavior in mice. **1<sup>st</sup> IBRO/APRC Chandigarh Neuroscience School, Chandigarh, Nov 2-8, 2014.**
30. **Poster Presentation - Kunjbihari Sulakhiya**, Naba K. Hazarika. Honokiol reverses depressive like behaviour and reduces hippocampal BDNF level after LPS administration in mice. **International Conference on Neuroscience: Brain Plasticity and Neurological Disorders, Cuttack. PP- 22, 2013.**
31. **Poster Presentation - Shubham Dwivedi, Kunjbihari Sulakhiya.** Esculetin ameliorates LPS induced sickness behaviour and neuroinflammation in mice. **International Conference on Neuroscience: Brain Plasticity and Neurological Disorders, Cuttack. PP-21, 2013.**

#### REFERENCES

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