

Curriculum vitae (CV)

1. **Basic information**

Violina Kakoty
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2. **Education**

2014-2016: M.Pharm, School of Pharmaceutical Sciences, Shoolini University, Solan, Himachal Pradesh

2010-2014: B.Pharm, Department of Pharmacy, Dibrugarh University, Dibrugarh, Assam

2010: AISSCE, Kendriya Vidyalaya CRPF Amerigog, Guwahati, Assam

2008: AISSE, Maharishi Vidya Mandir Public School, Silpukhuri, Guwahati, Assam

3. **Current Position**

PhD Research scholar, Neuropsychopharmacology Division, Department of Pharmacy, BITS-Pilani, Pilani campus, Junjhunu, Rajasthan,

Principal Investigator Supervisor: Prof. Rajeev Taliyan,

Co-supervisor: Dr. Sunil Kumar Dubey and Dr. Chih Hao Yang

4. **Previous position**

Pharmacology lecturer at PEWS group of institute, Bonda, Guwahati, Assam.

5. **Research interest**

1. Neurobehavioral pharmacology, mainly targeting diseases such as Alzheimer and Parkinson disease. Currently working on positive modulation of autophagy and epigenetics for the effective treatment of Alzheimer and Parkinson disease induced by metabolic dysfunction.
2. Lentivirus mediated fibroblast growth factor-21 (FGF21) gene delivery system intended for neuroprotection in Alzheimer's type of dementia and also Parkinson disease.

6. **List of publications**

1. Taliyan R, Chandran SK, Kakoty V. Therapeutic approaches to Alzheimer's type of dementia: A focus on FGF21 mediated neuroprotection. Current pharmaceutical design. 2019 Jun 1;25(23):2555-68.

2. Kakoty V, Sarathlal KC, Tang RD, Yang CH, Dubey SK, Taliyan R. Fibroblast growth factor 21 and autophagy: A complex interplay in Parkinson disease. *Biomedicine & Pharmacotherapy*. 2020 Jul 1;127:110145.
3. Sarathlal KC, Kakoty V, Marathe S, Chitkara D, Taliyan R. Exploring the Neuroprotective Potential of Rosiglitazone Embedded Nanocarrier System on Streptozotocin Induced Mice Model of Alzheimer's Disease. *Neurotoxicity Research*. 2020 Jul 18:1-6.
4. Kakoty V, Sarathlal KC, Dubey SK, Yang CH, Kesharwani P, Taliyan R. Lentiviral mediated gene delivery as an effective therapeutic approach for Parkinson disease. *Neuroscience letters*. 2021 Feb 23:135769.
5. KC S, Kakoty V, Krishna KV, Dubey SK, Chitkara D, Taliyan R. Neuroprotective Efficacy of Co-Encapsulated Rosiglitazone and Vorinostat Nanoparticle on Streptozotocin Induced Mice Model of Alzheimer Disease. *ACS Chemical Neuroscience*. 2021 Apr 16;12(9):1528-41.
6. Kakoty V, Sarathlal KC, Dubey SK, Yang CH, Kesharwani P, Taliyan R. The gut-brain connection in the pathogenicity of Parkinson disease: Putative role of autophagy. *Neuroscience Letters*. 2021 Apr 1:135865.
7. Kakoty V, KC S, Dubey SK, Yang CH, Taliyan R. Neuroprotective Effects of Trehalose and Sodium Butyrate on Preformed Fibrillar Form of α -Synuclein-Induced Rat Model of Parkinson's Disease. *ACS Chemical Neuroscience*. 2021 Jul 1;12(14):2643-60.

Book chapters

1. Bhargava L, Kakoty V, Sarathlal KC, Dubey SK, Taliyan R. Diabetic Foot Ulcer: Pathogenies and Treatment Strategies. In: Dahiya RS, Gurjeet ST, eds. *Diabetes and Diabetic Complications: Current Status and Future Perspectives*. 1st ed. Nova Science Publishers; 2021:173-195.
2. Kakoty V, Sarathlal KC, Pandey M, Dubey SK, Kesharwani P, Taliyan R. Biological toxicity of nanoparticles. In: *Nanoparticle Therapeutics*. 1st ed. Elsevier; 2021:1-27.

7. Conferences attended

1. Annual conference of Indian Pharmacological Society (IPSCON-2017), February 2018, Presented paper entitled - Neuroprotective potential of resveratrol against recurrent stroke: Putative role of oxidative stress and sirtuin-1.
2. 69th Indian Pharmaceutical congress (IPC-2017), December 2017, presented paper entitled- Implication of HDAC and GSK3-beta in insulin resistance induced neurodegeneration.

3. National Conference on Recent Advancement in Herbal Medicine and Herbal Drug Technology, April-2016, Presented paper entitled - Facts of emerging diseases; Cirrhotic cardiomyopathy.
4. International Conference on Molecular Pharmacology, Drug Discovery and Nano-Pharmaceuticals, March 2015, Presented paper entitled - Neuronal signals modulating obesity (**Second prize**).
5. 18th World Congress of Basic and Clinical Pharmacology, (WCP2018 Kyoto), July 2018, Presented paper entitled - Improved memory cognition and retention by ghrelin in intra-cerebroventricular streptozotocin model in rat.
6. National workshop cum training program on standardization of medicinal plants and their products organized by Indian Council of Medical Research, March 2015.
7. Awarded the best oral research presentation under the heading “Autophagy Modulation and Histone Deacetylase Inhibition Ameliorates Alpha-Synuclein Induced Parkinson Disease in Rats” and a cash prize of Rs 2,000/- in Young Pharmacologist Symposium jointly organized by National Institute of Pharmaceutical Education and Research Raebareli (NIPER-R) and Indian Pharmacological society (IPS) on 27th-28 May, 2021.

8. Conference proceedings

1. Possible role of ghrelin in neuronal conduction in improved memory cognition. RG V. kakoty, R. Kumar. World congress of neurology (WCN19-1342), 1.
2. Improved memory cognition and retention by Ghrelin in intra-cerebroventricular streptozotocin model in rat. IK Bajwa, V Kakoty, R Goyal. Proceedings for Annual Meeting of The Japanese Pharmacological Society.

9. Internships and projects done

1. Industrial training at Ozone Pharmaceuticals limited, Guwahati for 1 month.
2. Industrial visit at Emami Pharmaceuticals, Kolkatta for 1 month.
3. Completed research project during M.Pharm entitled - Possible role of ghrelin in neuronal conduction in improved memory cognition.
4. Completed an industrial project entitled - To examine the efficacy of herbal formulation for cardio-renal protection and its molecular mechanism(s) (NO/cGMP pathway) in L-NAME treated rats.

5. Completed an industrial project entitled - Gene expression study on fatty acid (FA) metabolism via assessing SREBPs 1 & 2, MTP and PPAR gamma in-vitro by RT- PCR.

10. International training program

Completed a 6month training program at Taipei Medical University, Taiwan under my co-supervisor, Dr.Chih Hao Yang.

11. Academic distinction attained

First rank holder in M.Pharm, specialization in pharmacology from Department of Pharmacy, Shoolini University.