**Centre/School/Special Centre:** School of Natural Resources

**Department:** Pharmacy

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Prof. (Dr.) Surendra H. Bodakhe

M. Pharm, PhD, A.I.C

Neuro-ocular pharmacology

Metabolic-ocular pharmacology

Total academic experience: 27 years

Research experience: 20 years

**Affiliation: Guru Ghasidas Vishwavidyalaya (A Central University)**

**Associate Professor:** till 17/8/2013

**Professor: Since** 18/8/2013

UGC Fellowship for M. Pharm, 1995

**Role:** Deputy Coordinator. UGC-SAP

**Title:** Ethnopharmacological Studies of Traditional Medicinal Plants

**Duration:** 2011-2016, Completed

**Grant amount:** Rs. 68.75 lakh

**Role:** Principal investigator, CCOST, Raipur

**Title:** A search for herbal anticataract drugs from Achanakmar forest area of Chhattisgarh State

**Duration:** 2015- 2017, Completed

**Grant amount:** 1.40 lakhs

**Role:** Principal investigator. Ministry of Ayush, EMR

**Title:** Search for novel anticataract agents: Phytochemical and pharmacological investigation of unexplored medicinal plants of Chhattisgarh State

**Duration:** 2014-2019, Completed

**Grant amount:** Rs 25.70 Lakh

**Name:**

**Qualifications:**

**Area of interest/Specialization:**

**Experience:**

**Awards and Honors:**

**Research projects:**

**Peer-reviewed publications:** 63

**Google scholar citations:** 1033  **h-index:** 14 **i10 index:** 21

1. Chowdhury, D., Das, A., Mishra, M., Das, A., & Bodakhe, S. H. (2025). OLFACTORY DYSFUNCTION: AN EARLY INDICATOR OF PARKINSON'S DISEASE. *Brain Disorders*, 100209.
2. Das, A., Chowdhury, D., Sharma, D., Manna, R., & Bodakhe, S. H. (2025). A high cholesterol diet accelerates Alzheimer's progression by promoting fibrotic damage in rats. *Brain Disorders*, 100206.
3. Chowdhury, D., Das, A., Mishra, M., Khutere, T., & Bodakhe, S. H. (2024). Physiological markers for immunotherapeutics: a review. *Journal of Chemotherapy*, 1-24. [IF: 1.9]
4. Das, A., Rajput, V., Chowdhury, D., Choudhary, R., & Bodakhe, S. H. (2024). Boron: An intriguing factor in retarding Alzheimer's progression. *Neurochemistry International*, *181*, 105897. [IF: 4.4]
5. Dhurandhar, Y., Tomar, S., Namdeo, K. P., & Bodakhe, S. H. (2024). Excitatory amino acids as therapeutic agents: Reversing neurodegenerative trajectory by tackling excitotoxicity. *Neurological Sciences*, 1-12. [IF: 3.307]
6. Dhurandhar, Y., Tomar, S., Das, A., Singh, A. P., Prajapati, J. L., Bodakhe, S. H., & Namdeo, K. P. (2024). Unlocking the Potential of Oxymatrine: A Comprehensive Review of Its Neuroprotective Mechanisms and Therapeutic Prospects in Neurological Disorders. *ACS Chemical Neuroscience*, *15*(23), 4245-4257. [IF: 4.2]
7. Seksaria, S., Dutta, B. J., Kaur, M., Gupta, G. D., Bodakhe, S. H., & Singh, A. (2024). Role of GLP-1 receptor agonist in diabetic cardio-renal disorder: Recent updates of clinical and pre-clinical evidence. *Current Diabetes Reviews*, *20*(6), 44-57. [IF: 2.4]
8. Behera, S., Das, A., Shree, J., Soni, P., Pandey, D. P., & Bodakhe, S. H. (2024). The visual field-testing maze and vision maze: Feasible techniques to evaluate visual field loss in animals. *Journal of Pharmacological and Toxicological Methods*, *126*, 107495. [IF- 1.3]
9. Kumar, N., Das, A., Kumari, N., Singh, G., Jain, U., Singh, A., & Bodakhe, S. H. (2024). Intermittent Fasting and Vitamin E Supplementation Attenuates Hypothyroidism‐Associated Ophthalmopathy. *Molecular Nutrition & Food Research*, *68*(5), 2300589. [IF-4.6]
10. Das, A., Kashyap, O., Pandey, D. P., & Bodakhe, S. H. (2024). Oxymatrine impedes the progression of endotoxin‐induced glaucoma via redox system modulations. *Journal of Biochemical and Molecular Toxicology*, *38*(1), e23631. [IF- 3.2]
11. Singh, A., & Bodakhe, S. H. (2022). Resveratrol attenuates behavioural impairment associated with learning and memory in rats with diabetes induced by a high‐fat diet and streptozotocin. *British Journal of Pharmacology*, *179*(19), 4673-4691. [IF- 6.8]
12. Dutta, B. J., Singh, S., Seksaria, S., Gupta, G. D., Bodakhe, S. H., & Singh, A. (2022). Potential role of IP3/Ca2+ signaling and phosphodiesterases: Relevance to neurodegeneration in Alzheimer’s disease and possible therapeutic strategies. *Biochemical Pharmacology*, *201*, 115071. [IF- 5.3]
13. Shree, J., Singh, A., Choudhary, R., Pandey, D. P., & Bodakhe, S. H. (2022). Topical administration of ACE inhibitor interrupts the progression of cataract in two kidney one clip induced hypertensive cataract model. *Current Eye Research*, *47*(3), 399-408. [IF- 2.2]
14. Das, A., Kashyap, O., Singh, A., Shree, J., Namdeo, K. P., & Bodakhe, S. H. (2022). Oxymatrine protects TGFβ1-induced retinal fibrosis in an animal model of glaucoma. *Frontiers in Medicine*, *8*, 750342. [IF- 3.1]
15. Soni, P., & Bodakhe, S. H. (2022). Protective effect of Coleus forskohlii leaf-extract compound on progression of cataract against Fructose-Induced experimental cataract in rats. *Drug and Chemical Toxicology*, *45*(1), 170-179. [IF- 2.1]
16. Shree, J., Choudhary, R., & Bodakhe, S. H. (2021). Therapeutic effects of various renin angiotensin modulators on hyperglycemia-induced cataract formation in Sprague Dawley rats. *European Journal of Ophthalmology*, *31*(5), 2360-2369. [IF- 1.5]
17. Choudhary, R., Shree, J., Singh, A., & Bodakhe, S. H. (2021). Role of the renin–angiotensin system in the development of cataract formation in angiotensin‐II‐induced experimental rats. *Journal of Biochemical and Molecular Toxicology*, *35*(7), e22789. [IF- 3.2]
18. Singh, A., & Bodakhe, S. H. (2021). Biochemical evidence indicates the preventive effect of resveratrol and nicotinamide in the treatment of STZ-induced diabetic cataract. *Current Eye Research*, *46*(1), 52-63. [IF- 2.2]
19. Singh, A., & Bodakhe, S. H. (2021). Biochemical evidence indicates the preventive effect of resveratrol and nicotinamide in the treatment of STZ-induced diabetic cataract. *Current Eye Research*, *46*(1), 52-63. [IF- 2.2]
20. Soni, P., Choudhary, R., & Bodakhe, S. H. (2019). Effects of a novel isoflavonoid from the stem bark of Alstonia scholaris against fructose-induced experimental cataract. *Journal of Integrative Medicine*, *17*(5), 374-382. [IF- 4.2]
21. Shree, J., Choudhary, R., & Bodakhe, S. H. (2019). Losartan delays the progression of streptozotocin‐induced diabetic cataracts in albino rats. *Journal of Biochemical and Molecular Toxicology*, *33*(8), e22342. [IF- 3.2]
22. Shrivastava, P., Choudhary, R., Nirmalkar, U., Singh, A., Shree, J., Vishwakarma, P. K., & Bodakhe, S. H. (2019). Magnesium taurate attenuates progression of hypertension and cardiotoxicity against cadmium chloride-induced hypertensive albino rats. *Journal of traditional and complementary medicine*, *9*(2), 119-123. [IF- 3.3]
23. Yadav, A., Choudhary, R., & Bodakhe, S. H. (2018). Role of nitric oxide in the development of cataract formation in CdCl2-induced hypertensive animals. *Current Eye Research*, *43*(12), 1454-1464. [IF- 2.2]
24. Gupta, S. K., & Bodakhe, S. H. (2018). Development of pharmacological screening method for evaluation of effect of drug on elevated pulse pressure and arterial stiffness. *Journal of Pharmacological and Toxicological Methods*, *91*, 59-65. [IF- 1.3]
25. Khan, S. B., Choudhary, R., Vishwakarma, P. K., Singh, A., Shree, J., & Bodakhe, S. H. (2017). Protective effect of alpha-lipoic acid on progression of cataract formation in fructose-induced experimental cataract. *PharmaNutrition*, *5*(4), 127-132. [IF- 2.4]
26. Choudhary, R., Kapoor, M. S., Singh, A., & Bodakhe, S. H. (2017). Therapeutic targets of renin-angiotensin system in ocular disorders. *Journal of current ophthalmology*, *29*(1), 7-16. [IF- 1.2]
27. Gupta, N., Bhattacharya, A., & Katare, S. H. (2017). A case of melanosarcoma-in rat. *Indian Journal of Animal Research*, *51*(3), 611-312. [IF- 0.4]
28. Choudhary, R., & Bodakhe, S. H. (2016). Olmesartan, an angiotensin II receptor blocker inhibits the progression of cataract formation in cadmium chloride induced hypertensive albino rats. *Life Sciences*, *167*, 105-112. [IF- 5.2]
29. Choudhary, R., & Bodakhe, S. H. (2016). Magnesium taurate prevents cataractogenesis via restoration of lenticular oxidative damage and ATPase function in cadmium chloride-induced hypertensive experimental animals. *Biomedicine & Pharmacotherapy*, *84*, 836-844. [IF- 6.9]
30. Khan, S. A., Choudhary, R., Singh, A., & Bodakhe, S. H. (2016). Hypertension potentiates cataractogenesis in rat eye through modulation of oxidative stress and electrolyte homeostasis. *Journal of Current Ophthalmology*, *28*(3), 123-130. [IF- 1.2]
31. Shitlani, D., Choudhary, R., Pandey, D. P., & Bodakhe, S. H. (2016). Ameliorative antimalarial effects of the combination of rutin and swertiamarin on malarial parasites. *Asian Pacific Journal of Tropical Disease*, *6*(6), 453-459. [IF- 1.9]
32. Singh, A., Khan, S. A., Choudhary, R., & Bodakhe, S. H. (2016). Cinnamaldehyde attenuates cataractogenesis via restoration of hypertension and oxidative stress in fructose-fed hypertensive rats. *Journal of pharmacopuncture*, *19*(2), 137. [IF- 0.829]
33. Choudhary, R., & Bodakhe, S. H. (2016). Magnesium taurate prevents cataractogenesis via restoration of lenticular oxidative damage and ATPase function in cadmium chloride-induced hypertensive experimental animals. *Biomedicine & Pharmacotherapy*, *84*, 836-844. [IF- 6.9]
34. Bodakhe, S. H., & Gupta, S. K. (2015). Diagnostic methods for non-alcoholic fatty liver diseases alternative to liver biopsy: a review. *Asian J Pharm Clin Res*, *8*(2), 54-59. [IF- 1.3]
35. Choudhary, R., Shitlani, D., & Bodakhe, S. H. (2014). Assessment of antimalarial effects of rutin by in vitro experimental model. *Indian journal of pharmacology* (Vol. 46, pp. S87-S87). [IF- 1.3]
36. Bodakhe, S. H., Ram, A., Verma, S., & Pandey, D. P. (2012). Anticataract activity of rhamnocitrin isolated from Bauhinia variegata stem bark. *Oriental pharmacy and experimental medicine*, *12*(3), 227-232. [IF- 1.3]

**Patents applied/granted:**

1. Received an Indian patent on Vision maze: An animal model for central vision detection (359856-001).

2. Received an Indian patent on Peripheral visual field testing maze in laboratory use (370401-001).

3. Received an Indian patent on Cognitive visual maze for laboratory use (394917-001).

4. Published an Indian patent on Hedychium coronarium: A novel therapeutic remedy against glaucoma progression (202221049661).

5. Received an Indian patent on Rapid observational and analytical multifaceted maze for laboratory use (436920-001).

**Books/ Book Chapters**

1. Published a chapter on ‘Midlife cholesterol: A pertinent contributor to late life dementia and Alzheimer’s disease’ in Ramifications of Environmental Change on Human Health, ABS books.

2. Published and co-edited a book on ‘Recent advances in pharmaceutical sciences’, Veer Bahadur publications.

3. Published a chapter on ‘Exploring Traditional Knowledge of Himalayan Medicinal Plants’ in Ayurvedic Approach to Holistic Wellness, ABS books.

**Research supervision:**

**PhD students:**

**PhD awarded:**

1. Sanjay Kumar Gupta

2. Rajesh Choudhary

7. Ashmita Das

5. Amrita Singh

6. Arin Bhattacharya

3. Pranay Soni

4. Jaya Shree

**PhD Students currently working:**

3. Geeta Singh

4. Durlav Chowdhury

5. Arijit Das

6. Mrityunjay Mishra

1. Nidhi Kumari

2. Nirdesh Kumar

**M. Pharm students:** 60

**Administrative responsibilities:** HOD, Department of Pharmacy (From Dec, 2024).