



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

Department: Pharmacy

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Qualifications: M. Pharm. PhD

Area of Interest/Specialization: Neuro-ocular Pharmacology

Experience: 25 Years

Awards and Honors: GATE Qualified, FIC

Research Projects:

S.No.	Title	Role	Agency	Period	Amount Sanctioned	File no. and date	Status
1	UGC SAP 'Ehnopharmacological Studies of Traditional Medicinal Plants'	Deputy Coordinator	UGC	2011-2016	Rs. 68.75 lakh	F.3-60/2011 (SAP-II) Dated 05/04/2011	completed
2	A search for herbal anticataract drugs from Achanakmar forest area of Chhattisgarh state	Principal Investigator	CCOST Raipur	2015-2017	Rs. 1.40 Lakh	1094/CCOST/MRP/2015 Dated 04/09/2015	completed
3	Search for novel anticataract agents: Phytochemical and pharmacological investigation of unexplored medicinal plants of Chhattisgarh State	Principal Investigator	Ministry of Ayush, Extra Mural Research Scheme	2014-2019	Rs 25.70 Lakh	Z.28015/107/2014-HPC (EMR)-AYUSH-A Dated 12/01/2015	completed

International Collaboration/Consultancy: NIL

Patent Details:

⊕ US Patent on research work entitled “*A Novel Antifertility Agent*”, Agrawal S.S.,**Bodakhe S.H.**,Diwan Roma and DhamejaPooja.Publication No. US 2003/0212105 A1.

⊕ IndianDesignPatent on “*Vision Maze*”, ShivaniBehera.,Ashmita Das,**Dr S H.Bodakhe**,Nirdesh Kumar,Km Neha Sharma,Geeta Singh,NidhiKumari,Dr Amrita SinghandDr Jaya Shree. Publication No. 370401-001 dated 04/12/2022.

⊕ IndianDesignPatent on “*Central Vision Maze*”,Ashmita Das,ShivaniBehera, OnkarKashyap, Dr Amrita Singh, Dr Jaya Shree and **Dr S H.Bodakhe**. Publication No.372498-001dated 04/12/2022.

⊕ Indian Patent on research work entitled “*Hedychiumcoronararium:A Novel Therapeutic Remedy Against Glaucoma Progression*”,OnkarKashyap,Ashmita Das,DrVinod D Rangari, , **Dr S H.Bodakhe**, Kamta P Namdeo, Dr Amrita Singh and Dr Jaya Shree.Application No.20221049661A dated11/11/2022.

Best Peer Reviewed Publication:

1. Singh A and **Bodakhe S.H.**Resveratrol attenuates behavioural impairment associated with learning and memory in HFD-STZ induced diabetic rats. *British Journal of Pharmacology* (2022). 179(19):4673-4691. doi: 10.1111/bph [**Impact factor: 9.501**].
2. Choudhary R., **Bodakhe S.H.** Magnesium taurate prevents cataractogenesis via restoration of lenticular oxidative damage and ATPase function in cadmium chloride-induced hypertensive experimental animals. *Biomedicine and pharmacotherapy*.84, 836-844 (2016) [**Impact factor: 7.419**]
3. Choudhary R., **Bodakhe S.H.** Olmesartan, an angiotensin II receptor blocker inhibits the progression of cataract formation in cadmium chloride induced hypertensive albino rats. *Life sciences*. 167, 105-112 (2016) [**Impact factor: 6.78**]
4. Dutta B.J, Seksaria S., Bajwa S. S., Gupta G D, **Bodakhe S H** and Singh A, “Potential role of IP3/ Ca²⁺ signaling and phosphodiesterases : Relevance to neurodegeneration in

- Alzheimer disease and possible therapeutic strategies” *Biochemical Pharmacology*. 2022. 201, 115071. <https://doi.org/10.1016/j.bcp.2022.115071> [**Impact Factor: 5.858**]
5. Das A, Kashyap O., Singh A., Shree J., Namdeo K. P. and Bodakhe S.H. Oxymatrine Protects TGF β 1-Induced Retinal Fibrosis in an Animal Model of Glaucoma. *Frontiers In Medicine* (2022). 8:750342. DOI: 10.3389/fmed.2021.750342 [**Impact factor: 5.091**].
 6. Shrivastava P., Choudhary P.; Nirmalkar U; Singh A; Shree J; Vishwakarma, P. K.; **Bodakhe S.H.** Magnesium taurate attenuates progression of hypertension and cardiotoxicity against cadmium chloride-induced hypertensive albino rats. *Journal of Traditional and Complementary Medicine*(2018). [**Impact factor: 4.88**]
 7. Soni P., Choudhary R. and **Bodakhe S.H.** Effects of a novel isoflavonoid from the stem bark of *Alstoniascholaris* against fructose-induced experimental cataract. *Journal of Integrative Medicine*. 17, 374-382 (2019). [**Impact factor: 4.22**]
 8. Ahuja, M. & **Bodakhe, S. H.** *In vitro* lens protective and antimicrobial activity of *Buteafrondosa*. *Journal of Pharmacy and Pharmacology* 56, 63 (2004) [**Impact factor: 3.765**].
 9. Singh Amrita and **Bodakhe S. H.** Resveratrol delay the progression of cataract formation against naphthalene induced experimental cataract in the albino rats. *Journal of Biochemical and Molecular Toxicology*. e22420. <https://doi.org/10.1002/jbt.22420>. [**Impact factor: 3.642**]
 10. Choudhary R., Shree J., Singh Amrita and **Bodakhe S. H.** Role of the renin–angiotensin system in the development of cataract formation in angiotensin-II-induced experimental rats. *Biochemical and Molecular Toxicology*. 2021 DOI: 10.1002/jbt.22789 [**Impact factor: 3.642**].
 11. Shree J., Choudhary R., **Bodakhe S. H.** Losartan delays the progression of streptozotocin - induced diabetic cataracts in albino rats. *Journal of Biochemical and Molecular Toxicology*. 2019; e22342. [**Impact factor: 3.642**]
 12. Khan S B; Choudhary R; Vishwakarma P. K; Singh Amrita; Jaya Shree; **Bodakhe S. H.** Protective effect of alpha-lipoic acid on progression of cataract formation in fructose-induced experimental cataract. *PharmaNutrition*. 5, 127–132 (2017). [**Impact Factor: 3.512**]
 13. Shitlani D., Choudhary R., Pandey D.P., **Bodakhe S.H.** Ameliorative antimalarial effects of the combination of rutin and swertiamarin on malarial parasites. *Asian pacific journal of tropical disease*. 6 453-459 (2016) [**Impact factor: 3.041**].

14. Yadav A., Choudhary R., **Bodakhe S H.** Role of Nitric Oxide in the Development of Cataract Formation in CdCl₂-induced Hypertensive Animals. *Current Eye Research*. 43 (12):1454-1464(2018). [**Impact factor: 2.631**].
15. Singh Amrita and **Bodakhe S. H.** Biochemical evidence indicates the preventive effect of resveratrol and nicotinamide in the treatment of STZ-induced diabetic cataract *Current Eye Research*. DOI: 10.1080/02713683.2020.1782941 [**Impact factor: 2.631**]
16. Shree J., Singh A., Choudhary R., Pandey D. P and **Bodakhe S. H.** Topical Administration of ACE Inhibitor Interrupts the Progression of Cataract in Two Kidney One Clip Induced Hypertensive Cataract Model. *Current Eye Research*. 2021 DOI: 10.1080/02713683.2021.2002911 [**Impact factor: 2.631**].
17. Soni P. and **Bodakhe S.H.** Protective effect of *Coleus forskohlii* leaf-extract compound on progression of cataract against Fructose-Induced experimental cataract in rats. *Drug and Chemical Toxicology*. <https://doi.org/10.1080/01480545.2019.1668404>. [**Impact factor: 2.597**]
18. Shree J., Choudhary R., and **Bodakhe S. H.** Therapeutic effects of various renin angiotensin modulators on hyperglycemia-induced cataract formation in Sprague Dawley rats. *European Journal of Ophthalmology*. 2020 DOI: doi.org/10.1177/1120672120962401 [**Impact factor: 2.597**].
19. Rana, V. S., Juyal, J. P., Blazquez, M. A. & **Bodakhe, S. H.** Essential oil composition of *Artimisiaparviflora* aerial parts. *Flavor and Fragrance Journal* **18**, 342-344 (2003) [**Impact factor: 2.500**].
20. Gupta Sanjay; **Bodakhe S.H.** 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 (2018). [**Impact factor: 2.285**].
21. Kapoor M. S., Khan S. A., Gupta S., Choudhary R., **Bodakhe S.H.** Animal models of erectile dysfunction. *Journal of Pharmacological and Toxicological Methods*. 76, 43-54 (2015). [**Impact factor: 2.285**].
22. Khan S.A., Choudhary R., Singh A., **Bodakhe S.H.** Hypertension potentiates cataractogenesis in rat eye through modulation of oxidative stress and electrolyte homeostasis. *Journal of current ophthalmology*. 28, 1-8 (2016). [**Impact factor: 1.932**]

23. Singh A., Khan S.A., Choudhary R., **Bodakhe S.H.** Cinnamaldehyde attenuates cataractogenesis via restoration of hypertension and oxidative stress in fructose-fed hypertensive rats. *Journal of pharmacopuncture*. 19, 7-15 (2016). [**Impact factor: 1.643**]
24. Soni P., **Bodakhe S.H.** Anti venom potential of ethanolic extract of *Cordiamacleodi* bark against *Naja* venom. *Asian Pacific Journal of Tropical Biomedicine*. 4(Suppl 1), S449-S454 (2014). [**Impact Factor: 1.514**]
25. Choudhary Manoj., **Bodakhe S.H.** Gupta Sanjay. Assessment of antiulcer potential of *Moringaoleifera* root-bark extract in rats. *Journal of Acupuncture and Meridian Studies*. 6(4), 214-220 (2013). [**Impact factor: 1.463**]
26. Rishi, R. K., **Bodakhe, S. H.**, Tailang, M. & Akhtar, M. Patterns of use of Oral Rehydration Therapy in Srinagar (Garhwal). *Tropical Doctor* **33**, 143-145 (2003) [**Impact factor: 0.846**].
27. **Bodakhe, S. H.**, Dangi, J. S., Ram, A., Namdeo, K. P. & Bodakhe, K. S. Isolated Cock Ileum: A Tool For Pharmacology Experiments. *Indian Journal of Pharmaceutical Education and Research* **43(2)**, 199-202 (2009). [**Impact factor: 0.843**].
28. Gupta Neelu; Bhattacharya A., **Bodakhe S. H.**; Katare M. A case of melanosarcoma-in rat. *Indian Journal of Animal Research*. 51(3), 611-612 (2017) ISSN: 03676722. [**Impact Factor: 0.427**]
29. **Bodakhe, S. H.** & Ram, A. Hepatoprotective Properties of *Bauhinia variegata* Bark Extract. *Yakugaku Zasshi* **127**, 1503-1507 (2007) [**Impact factor: 0.302**].
30. **Bodakhe, S. H.**, Ram, A. & Pandey, D. P. A New Aromatic Glycoside from *Morinalongifolia* Wall. *Asian Journal of Chemistry* **22(4)**, 2789-2793 (2010). [**Impact factor: 0.535**].
31. **Bodakhe, S. H.**, Ram, A., Bodakhe, K. S. & Pandey, D. P. New polyphenolic aromatic glycoside from *Bauhinia variegata* L. stem bark. *Asian Journal of Chemistry* **22(5)**, 3549-3553 (2010). [**Impact factor: 0.535**].

Recent Books/Book Chapters/Monographs etc.

1. Gupta, S.; Juyal, V.; Ahuja, M.; **Bodakhe, S. H.**, *Career in Pharmacy*. Birla Publications: Delhi, 2006. ISBN: 8125600043
2. Ahuja, M.; **Bodakhe, S. H.**; Juyal, V.; Gupta, S., *Synopsis for GPAT*. Dwawan Publications: Delhi, 2016. ISBN: 81-86548440
3. **Bodakhe, S. H.**; Gupta, S., *A text book of Experimental Pharmacology*. Dhawan Publications: Delhi, 2016. ISBN: 81-86548904
4. **Bodakhe, S. H.**; Jain, Parag., Bhattacharya Arin; Shree Jaya and Singh Amrita., *Guidelines and Screening Methods of Pharmacology*, PharmaMed Press, Hyderabad 2021 ISBN : 97-89389354222

Research Supervision:

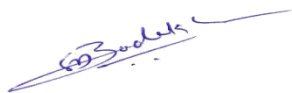
PhD Scholars

Sr No.	Name of the Candidate	Thesis Title	Date of PhD Degree award
1	Sanjay Kumar Gupta	Evaluation of effective mechanism for the maintenance of pulse pressure by antihypertensive agents	27/12/2017
2	Rajesh Choudhary	Effects of angiotensin receptor blockers and magnesium taurate in hypertension induced ocular disorders and lenticular alterations.	31/01/2019
3	Pranay Soni	Study of some medicinal plants with reference to cardiovascular and lenticular alteration on experimental animal	26/11/2019
4	Jaya Shree	Investigation of role of renin angiotensin system in modulation and management of cataract formation	12/11/2020
5	Amrita Singh	Preclinical evaluation of polyphenolic . Bioactive in animal models of age related disorders	11/06/2021
6	Arin Bhattacharya	Role of vanadium – NSAID complex in nicotine exacerbated diabetic cataract	14/06/2021

Administrative Responsibilities: As assigned by Vishwavidyalaya from time to time

International Research presentations:

1. XIII International Congress of Pharmacology, Munchen, Germany Naunyn-Schmiedeberg's Archives of Pharmacology) July 26th – 31st, 1998, **Munchen, Germany.**
2. British Pharmaceutical Conference, "Medicines: From cell to society", held at Manchester (UK) organized by Royal Pharmaceutical Society of Great Britain **Manchester (UK).**
3. Phytopharm 2008, 12th International Congress, 2-4 July, 2008, **Saint Petersburg, Russia.**
4. 2nd International Conference on Drug Discovery and Therapy' held at **Dubai, UAE**
5. International Conference of Personalized medicine and targeted therapies in cancer. Sharjah Int of Medical Research, **Sharjah, UAE.**
6. International Conference on Medical, Biological and Pharmaceutical Sciences, International Academy of Science, Technology, Engineering and Management, **Bangkok, Thailand.**
7. 7th International Science Congress, International Science Community Association and College of Science and Technology, Royal University of **Bhutan, Bhutan.**



Signature with date

Date: 22/12/2022