

**CURRICULUM VITAE**  
**DR BHAGYA V, M. Pharm (Pharmacology), PhD (NIMHANS)**  
**Department of Pharmacology**  
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**ACADEMIC PROFILE**

<b>Degree</b>	<b>Field (s)-University</b>	<b>Year</b>	<b>Class/Percentage</b>
<b>PhD</b>	Neurophysiology NIMHANS, Bangalore, Karnataka, India	06/2009	
<b>M. Pharmacy (Pharmacology)</b>	Government College of Pharmacy, Bangalore Karnataka, India	03/2001- 03/2003	73.5%
<b>B. Pharmacy</b>	Government College of Pharmacy, Bangalore Karnataka, India	11/1996- 10/2000	71.07%

**Teaching Experience**

1. Worked as Lecturer in Dayananda College of Pharmacy - 01/10/2003-30/11/2003
2. Worked as Lecturer in MS Ramaiah College of Pharmacy - 01/12/2003-30/04/2005
3. More than 10 years of teaching experience in pharmacy colleges and in NIMHANS. Actively involved in the teaching programs of the Department of Neurophysiology, NIMHANS, for M Phil, MS Neuroscience, Nursing and PhD students.
4. Worked as Professor in Nargund College of Pharmacy, Bangalore - 17/08/2016-30/06/2017
5. Working as Assistant Professor and recognised **PhD guide** in The University of Trans-Disciplinary Health Sciences and Technology (TDU), Bangalore - 01/07/2017- 29/02/2020

6. Currently, working as an Associate Professor at KLE College of Pharmacy, KAHER, Bengaluru.
7. **Guided** 2 MSc students from Bangalore University (2015-2016) and 2 M Pharm students from Nargund College of Pharmacy (2016-2017) for their dissertation work. Also, supervised graduate students and undergraduate researchers in the Professor BS Shankaranarayana Rao's lab in the Department of Neurophysiology, NIMHANS.
8. **Resource person** and **Mentor** for 2 workshops, the 5<sup>th</sup> SERC School in Neuroscience Learning and Memory and the pre-conference workshop of APPICON-2013.
9. **Resource person** for ICMR National Workshops for Advancement of Physiological Sciences in India (ICAPS) Mentor - Mentee Workshop.
10. **Resource person** for National Symposium on future of Functional Genomics, October 2017.
11. Preparation of curriculum for **MSc Ayurveda Biology** in The University of Trans-Disciplinary Health Sciences and Technology (TDU) during 2017-2018.
12. Served as an **Organizing Secretary**, for the International Symposium on **"Traditional Health Knowledge Inspired Nutraceuticals"** held on March 6, 2018 in Bengaluru and published Proceedings of the symposium "Perspectives in translating insights from global traditional medicines through modern sciences".
13. Member, Institutional Animal Ethics Committee, Nargund College of Pharmacy, Bengaluru
14. Head, Animal House Facility, Nargund College of Pharmacy, Bengaluru

### Invited talks

1. International Symposium on Cellular and Molecular Basis of Brain Plasticity and Repair Mechanisms & Annual meeting of Society for Neuroscience (SfN)-Bangalore Chapter. DIHAR, DRDO, Leh. 3-5<sup>th</sup> September 2010.
2. 5<sup>th</sup> Congress of Federation of Asian-Oceanian Neuroscience Societies (FAONS) and XXVII Annual meeting of Indian Academy of Neurosciences (IAN), Lucknow, India. 25-28<sup>th</sup> November 2010.
3. The International symposium on recent trends in neurosciences and XXIX Annual conference of Indian Academy of Neurosciences, Defense Institute of Physiology and Allied Sciences, New Delhi. 30<sup>th</sup> October- 1<sup>st</sup> November, 2011.
4. First 'National Conference' of Association of Physiologists of India (ASSOPI), December 15 – 19, 2014, JIPMER, Puducherry.

## Research experience

From - To	Name of the Post	Detail about work
Under review	DBT extramural research grant submitted: Principal Investigator	Neuroprotective effect of <i>Celastrus paniculatus</i> in chronically stressed rats: Role of glutamatergic and glucocorticoid signaling (Total cost of the project Rs 53,00,000)
Sanctioned	<b>Principal Investigator:</b> Amway India clinical trial project	Physiological responses to Poly-herbal Rasayana preparation in sub-optimally healthy volunteers Fund: INR 40,00,000/-
04/2018 – 10/2019	<b>Co-Investigator:</b> Amway-Nutriline, USA project	Rasayana project (Total cost USD. 93,000)
07/2013-07/2016	<b>DST- Fast Track Young Scientist,</b> Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences, Bangalore, INDIA	Effect of <i>Celastrus paniculatus</i> on cognitive deficits in chronically stressed rats: A behavioral, neurochemical, structural and electrophysiological approach (Total cost of the project INR 27,00,000/)
05/2010-04/2013	<b>CSIR-Senior Research Associate</b> (Scientific Pool Officer), Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences, Bangalore, INDIA	Role of escitalopram and reboxetine antidepressants on hippocampal neurogenesis and structural plasticity in endogenous animal model of depression (INR 19,00,000)
10/2008-03/2010	CSIR-Senior Research Fellow, Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences, Bangalore, INDIA	Neural basis of cognitive deficits in depressed-like rats
05/2005-04/2008	PhD Research scholar, Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences, Bangalore, INDIA	Neural plasticity in neonatal clomipramine induced endogenous depression in adult rats
03/2001-03/2003	Junior Research Fellow, Department of Pharmacology, Government College of Pharmacy, Bangalore, INDIA	Neuropharmacological evaluation of polyherbal formulation SED-HD-01

## Publications

1. **V Bhagya**, BN Srikumar, TR Raju and BS Shankaranarayana Rao (2008) Neonatal clomipramine induced endogenous depression in rats is associated with learning impairment in adulthood. *Behavioural Brain Research* 187: 190–194
2. Veena J, Srikumar BN, Mahati K, **Bhagya V**, Raju TR and Shankaranarayana Rao BS (2009) Enriched environment restores hippocampal cell proliferation and ameliorates cognitive deficits in chronically stressed rats. *Journal of Neuroscience Research* 87: 831–843
3. George Lekha, **Bhagya P Kumar**, Shankar Narayana Rao, Irudaya Arockiasamy and Karthik Mohan (2010) Cognitive enhancement and Neuroprotective effect of *Celastrus paniculatus* Willd. seed oil (Jyothismati oil) on male Wistar rats. *Journal of Pharmaceutical Science and Technology* 2(2): 130-138
4. **Bhagya V**, Srikumar BN, Raju TR, Shankaranarayana Rao BS (2011) Chronic escitalopram treatment restores spatial learning, monoamine Levels and hippocampal long term potentiation in an animal model of depression. *Psychopharmacology (Berl)* 214:477–494
5. **Bhagya V**, Srikumar BN, Raju TR, Shankaranarayana Rao BS (2015) Selective noradrenergic reuptake inhibitor reboxetine restores spatial learning deficits, biochemical changes and hippocampal synaptic plasticity in an animal model of depression. *Journal of Neuroscience Research* 93: 104-120
6. **Bhagya V\***, Christofer T, Shankaranarayana Rao BS (2016) Neuroprotective effect of *Celastrus paniculatus* on chronic stress-induced cognitive impairment. *Indian J Pharmacol* 48(6): 687-693 (\* corresponding author).
7. Mahati K, **Bhagya V\***, Christofer T, Sneha A, Shankaranarayana Rao BS (2016) Enriched environment ameliorates depression-induced cognitive deficits and restores abnormal hippocampal synaptic plasticity. *Neurobiology of Learning and Memory*. 134: 379-391 (\* equal authorship)
8. **Bhagya V\***, Srikumar BN, Veena J, Shankaranarayana Rao BS (2016) Short term exposure to enriched environment rescues chronic stress-induced impaired hippocampal synaptic plasticity, anxiety and memory deficits. *J Neuroscience Res*. 95: 1602-1610. (\* corresponding author)

9. Shilpa BM, **Bhagya V\***, Harish G, Bharath MM, Shankaranarayana Rao BS (2017) Environmental enrichment ameliorates chronic immobilisation stress-induced spatial learning deficits and restores the expression of BDNF, VEGF, GFAP and glucocorticoid receptors. *Progress in Neuropsychiatry and Biological psychiatry*. 76: 88-100. (\* equal authorship)

10. Abhijit S, Tripathi SJ, **Bhagya V**, Shankaranarayana Rao BS, Subramanyam MV, Asha Devi S (2018) Antioxidant action of grape seed polyphenols and aerobic exercise in improving neuronal number in the hippocampus is associated with decrease in lipid peroxidation and hydrogen peroxide in adult and middle-aged rats. *Exp Gerontol*. 101:101-112.

11. Shilpa BM, **Bhagya V\***, Shankaranarayana Rao BS (2020) Chronic escitalopram treatment reverses depression-induced impaired spatial memory and restores BDNF, VEGF, GFAP expression in the hippocampus, frontal cortex and amygdala. *J Neurosci Research*, **Under revision**. (\* equal authorship)

#### **Professional Affiliations**

- Society for Neuroscience (SfN)
- International Brain Research Organisation (IBRO)
- Indian Academy of Neurosciences (IANs)
- Society for Neurochemistry India (SNCI)
- Molecular and Cellular Cognition Society (MCCS)
- Association of Physiologists and Pharmacologists of India (APPI)