

DR. C. B. GANESH

Professor in Zoology
Karnatak University, Dharwad - 580 003
Karnataka State, India
E-mail: cbganesh@kud.ac.in
Phone-Office: 0836-2215230; Fax: 0836-2446601
Mobile: (+91) 9845427168; 9731729933



CURRICULUM VITAE**Professional experience:**

M.Sc and Ph.D from Department of Zoology, University of Mysore, Mysore (Ph.D in 2004)
Assistant professor at Karnatak Science College, Dharwad (2003-2012)
Associate Professor at Karnatak University, Dharwad (2012-2015)
Professor at Karnatak University, Dharwad (2015 to present)

Area of Research : Neuroendocrinology & Reproductive Biology of Vertebrates

Research Publications:

1. **Ganesh CB** and Yajurvedi HN. (2002). Stress inhibits seasonal and FSH-induced ovarian recrudescence in the lizard *Mabuya carinata*. *Journal of Experimental Zoology Part A*. 292, 640-648. DOI: [10.1002/jez.10103](https://doi.org/10.1002/jez.10103)
2. **Ganesh CB** and Yajurvedi HN. (2002). Corticotrophin releasing factor antagonist attenuates stress-induced inhibition of seasonal ovarian recrudescence in the lizard *Mabuya carinata*. *General and Comparative Endocrinology*. 126, 144-152. DOI: [10.1006/gcen.2002.7785](https://doi.org/10.1006/gcen.2002.7785)
3. **Ganesh CB** and Yajurvedi HN. (2003). β -endorphin disrupts seasonal and FSH-induced ovarian recrudescence in the lizard *Mabuya carinata*. *General and Comparative Endocrinology*. 133, 305-313. DOI: [10.1016/S0016-6480\(03\)00186-2](https://doi.org/10.1016/S0016-6480(03)00186-2)
4. **Ganesh CB** and Yajurvedi HN. (2006). Corticosterone inhibits seasonal ovarian recrudescence in the lizard *Mabuya carinata*. *Journal of Advanced Zoology*. 27, 28-33
5. **Ganesh CB** and Yajurvedi HN (2007). Profile of serum sex-steroids during vitellogenic and oviductal egg-retention phases of the reproductive cycle in the oviparous lizard *Mabuya carinata* (Schnn.). *Journal of Advanced Zoology*. Vol. 28, p. 84-88
6. **Ganesh CB** and Mokashi VR. (2008). Photoperiod and temperature as Environmental cues for the spawning in the fish, *Oreochromis mossambicus*. *Journal of Advanced Zoology Part A*. Vol. 29. 148-150.
7. Chabbi A and **Ganesh CB**. (2012). Stress induced inhibition of recruitment of ovarian follicles for vitellogenic growth and interruption of spawning cycle in the fish *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*. 38, 1521 -1532. DOI: [10.1007/s10695-012-9643-z](https://doi.org/10.1007/s10695-012-9643-z)
8. Chabbi A and **Ganesh CB**. (2013). β -endorphin induced inhibition of vitellogenic follicular growth in the fish *Oreochromis mossambicus*: Evidence for opioidergic mediation of ovarian stress response. *Journal of Experimental Zoology, Part A, Ecological Genetics & Physiology*. 319, 156 -165. DOI: [10.1002/jez.1781](https://doi.org/10.1002/jez.1781)
9. **Ganesh C. B.** and Chabbi A. (2013). Naltrexone attenuates stress-induced suppression of LH secretion in the Pituitary gland in the Cichlid fish *Oreochromis mossambicus*: Evidence for the opioidergic mediation of reproductive stress response. *Fish Physiology and Biochemistry*. 39, 627-636. DOI: [10.1007/s10695-012-9725-y](https://doi.org/10.1007/s10695-012-9725-y)
10. **Ganesh CB**. (2014). Follicular development status and profile of 17β estradiol and cortisol levels during spawning cycle in *Oreochromis mossambicus* (Peters). *Indian Journal of*

- Fisheries*. 61, 45-51.
11. Chabbi A and **Ganesh CB** (2014). Glucocorticoid synthesis inhibitor metyrapone blocks stress-induced suppression along luteinizing hormone secreting cells-ovary axis in the fish *Oreochromis mossambicus*. *Journal of Experimental Zoology, Part A, Ecological Genetics & Physiology*. 321,125-134. DOI: [10.1002/jez.1842](https://doi.org/10.1002/jez.1842)
 12. Bhat RA and **Ganesh CB**. (2014). Bird diversity and status in western ghats of Katgal (Uttara Kannada Dist.), Karnataka State. *Ecology, Environment and Conservation*. 20 (1), 181-186
 13. Konkall P and **Ganesh CB**. (2014). Avifaunal diversity and status in Kurugodu, Bellary District, Karnataka State. *Ecology, Environment and Conservation*. 20 (4), 1777-1782.
 14. Patil VC and **Ganesh CB**. (2014). Status of Bird Diversity in Belagavi District, Karnataka State. *Indian Journal of Ecology*. 41 (1), 74-77.
 15. **Ganesh CB** and Mokashi VR. (2015). Chronic exposure to low intensity light blocks spawning in the fish *Oreochromis mossambicus*. *Journal of Basic and Applied Zoology*. 72, 145 –153. <https://doi.org/10.1016/j.jobaz.2015.09.005>
 16. **Ganesh CB**, Menage N, Pujari P, Olekar R, and Revankar S. (2015). Influence of Different Light Intensities on Growth, Survival and Hatchling Success in the Mosquitofish *Gambusia affinis*. *Journal of Ecophysiology and Occupational Health*. 15, 39-44. <https://doi.org/10.18311/jeoh/2015/1649>
 17. Chabbi A and **Ganesh CB** (2015). Evidence for the involvement of dopamine in stress induced suppression of reproduction in the cichlid fish *Oreochromis mossambicus*. *Journal of Neuroendocrinology*, 27, 343–356. <https://doi.org/10.1111/jne.12269>
 18. **Ganesh CB**, Shinde D, Hidkal PS, Gaikwad GB and Hegde P. (2015). Chronic Exposure to Moderate Hypoxia Impairs Reproductive Success in the Mosquitofish *Gambusia affinis*. *Research Journal of Animal, Veterinary and Fishery Sciences*. 3 (1), 10-14.
 19. Chabbi A and **Ganesh CB** (2016). Neuroanatomical evidence for the involvement of β -endorphin during reproductive stress response in the fish *Oreochromis mossambicus*. *Journal of Chemical Neuroanatomy*, 77, 161–168. doi: [10.1016/j.jchemneu.2016.07.002](https://doi.org/10.1016/j.jchemneu.2016.07.002).
 20. Nadaf RM and **Ganesh CB** (2016). A Study on Avifaunal Diversity Status in Lakes of Dharwad, Karnataka State. *Journal of Ecophysiology and Occupational Health*. 16 (1 & 2), 13–21. DOI : [10.15512/joeoh/2016/v16i1&2/15694](https://doi.org/10.15512/joeoh/2016/v16i1&2/15694)
 21. Pawar RG and **Ganesh CB** (2016). Spider faunal diversity status in Londa, Belagavi District, Karnataka state, India. *Ecology, Environment and Conservation*. 22 (3), 1203-1207
 22. Vijayalaxmi and **Ganesh CB** (2017). Distribution of Endomorphin-like-immunoreactive neurones in the brain of the cichlid fish *Oreochromis mossambicus*. *Journal of Neuroendocrinology*, 29 (3), 1-17. DOI: [10.1111/jne.12460](https://doi.org/10.1111/jne.12460)
 23. Vijayalaxmi and **Ganesh CB**. (2017). Influence of leucine-enkephalin on pituitary-ovary axis of the cichlid fish *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*. 49, 1253-1264. DOI: [10.1007/s10695-017-0369-9](https://doi.org/10.1007/s10695-017-0369-9)
 24. Bhat SK and **Ganesh CB** (2017). Distribution of tyrosine hydroxylase-immunoreactive neurons in the brain of the viviparous fish *Gambusia affinis*. *Journal of Chemical Neuroanatomy*, 85, 1-12. DOI: [10.1016/j.jchemneu.2017.05.004](https://doi.org/10.1016/j.jchemneu.2017.05.004)
 25. Chabbi A and **Ganesh CB** (2017). Influence of cortisol along the pituitary-ovary axis in the cichlid fish *Oreochromis mossambicus*, *Journal of Applied Ichthyology*. 33, 1071-1315. DOI: [10.1111/jai.13480](https://doi.org/10.1111/jai.13480)
 26. Pikle RP, Jatiger RM, and **Ganesh CB**. (2017). Food-deprivation-induced suppression of pituitary–testicular-axis in the tilapia *Oreochromis mossambicus*. *International Aquatic Research*. 9 (3), 203-213. DOI: [10.1007/s40071-017-0169-y](https://doi.org/10.1007/s40071-017-0169-y)

27. Konkall P, and **Ganesh CB**. (2018). Exposure to low or high light intensity affects pituitary-testicular activity in the fish *Oreochromis mossambicus*. *Aquaculture*. 497, 109-116. DOI: [10.1016/j.aquaculture.2018.07.043](https://doi.org/10.1016/j.aquaculture.2018.07.043)
28. Vijayalaxmi and **Ganesh CB**. (2019). Influence of Endomorphins along the pituitary-ovary axis in the Mozambique tilapia *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*. 46(1):429-438. DOI: [10.1007/s10695-019-00731-5](https://doi.org/10.1007/s10695-019-00731-5)
29. Bhat SK and **Ganesh CB**. (2019). Dopamine receptor agonist bromocriptine restrains the follicular development, hatchling success and puberty in *Gambusia affinis*. *Journal of Applied Ichthyology*. 35, 501-511. <https://doi.org/10.1111%2Fjai.13875>
30. Bhat SK and **Ganesh CB**. (2019). Domperidone treatment advances onset of puberty in the viviparous mosquitofish *Gambusia affinis*, *The Journal of Basic and Applied Zoology*, 80 (1), 1-7. DOI: [10.1186/s41936-019-0136-9](https://doi.org/10.1186/s41936-019-0136-9)
31. Vijayalaxmi, Shyamannavar B, Patil S, Khaji NP, and **Ganesh CB**. (2019). Effect of food deprivation on neuropeptide Y immunoreactivity and concurrent biochemical and gonadal responses in tilapia *Oreochromis mossambicus* (Peters, 1852). *Indian Journal of Fisheries*. 66 (3), 95-101. DOI: [10.21077/ijf.2019.66.3.81168-12](https://doi.org/10.21077/ijf.2019.66.3.81168-12)
32. Konkall P and **Ganesh CB**. (2020). Continuous Exposure to Light Suppresses the Testicular Activity in Mozambique Tilapia *Oreochromis mossambicus* (Cichlidae). *Journal of Ichthyology*. 60 (4): 660–667. DOI: [10.1134/S0032945220040074](https://doi.org/10.1134/S0032945220040074)
33. **Ganesh CB**, Bhat SK, Prathima MS and Hebbal SY. (2020). Tyrosine hydroxylase-immunoreactive neurons in the brain of tadpole of the narrow mouthed frog *Microhyla ornata*. *Journal of Chemical Neuroanatomy*. 103,101704. DOI: [10.1016/j.jchemneu.2019.101704](https://doi.org/10.1016/j.jchemneu.2019.101704)
34. Vijayalaxmi and **Ganesh CB**. (2020). The opioid peptide dynorphin suppresses pituitary-ovary axis in the tilapia *Oreochromis mossambicus*. *Journal of Fish Biology*. 96(3):747-754. DOI: [10.1111/jfb.14269](https://doi.org/10.1111/jfb.14269)
35. **Ganesh CB** and Vijayalaxmi (2020). Methionine-enkephalin-treatment suppresses the pituitary-ovary axis in the cichlid fish *Oreochromis mossambicus*. *Aquaculture Reports*.17: 100311. DOI: [10.1016/j.aqrep.2020.100311](https://doi.org/10.1016/j.aqrep.2020.100311)
36. Vijayalaxmi, Sakharkar AJ, and **Ganesh CB**. (2020). Leucine-enkephalin-immunoreactive neurons in the brain of the cichlid fish *Oreochromis mossambicus*. *Neuropeptides*. 81:101999. DOI: [10.1016/j.npep.2019.101999](https://doi.org/10.1016/j.npep.2019.101999)
37. Bhat SK and **Ganesh CB**. (2020). Domperidone treatment attenuates stress-induced suppression of reproduction in viviparous mosquitofish *Gambusia affinis*. *Journal of Fish Biology*. 96(1):37-48. DOI: [10.1111/jfb.14183](https://doi.org/10.1111/jfb.14183)
38. Konkall P and **Ganesh CB**. (2020). Exposure to hypoxia inhibits pituitary-testicular activity in the fish *Oreochromis mossambicus*. *Aquaculture*. 515, 734552. DOI: [10.1016/j.aquaculture.2019.734552](https://doi.org/10.1016/j.aquaculture.2019.734552)
39. Konkall P and Ganesh, CB. (2021). The effect of high or low temperature on testicular activity in the cichlid fish *Oreochromis mossambicus*. *Fisheries Science*. 87: 837–844. DOI: [10.1007/s12562-021-01559-w](https://doi.org/10.1007/s12562-021-01559-w)
40. **Ganesh CB** and Vijayalaxmi. (2021). Neuroanatomical organization of methionine-enkephalinergic system in the brain of the Mozambique tilapia *Oreochromis mossambicus*. *Journal of Chemical Neuroanatomy*. 115:101963. DOI: [10.1016/j.jchemneu.2021.101963](https://doi.org/10.1016/j.jchemneu.2021.101963)
41. Kumbar J and **Ganesh CB**. (2021). Alpha-melanocyte stimulating hormone immunoreactivity in the brain of the cichlid fish *Oreochromis mossambicus*. *Neuropeptides*. 87:102128. DOI: [10.1016/j.npep.2021.102128](https://doi.org/10.1016/j.npep.2021.102128)

42. Kumbar J and **Ganesh CB**. (2021). The effect of α -MSH treatment on the hypothalamic-pituitary-gonad axis in the cichlid fish *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*. 47(5):1659-1668. DOI: [10.1007/s10695-021-01005-9](https://doi.org/10.1007/s10695-021-01005-9)
43. Bhat SK, **Ganesh CB**. (2021). Serotonin (5-hydroxytryptamine)-immunoreactive neurons in the brain of the viviparous fish *Gambusia affinis*. *Journal of Chemical Neuroanatomy*. 118:102033. DOI: [10.1016/j.jchemneu.2021.102033](https://doi.org/10.1016/j.jchemneu.2021.102033)
44. **Ganesh CB**. (2021). The stress - Reproductive axis in fish: The involvement of functional neuroanatomical systems in the brain. *Journal of Chemical Neuroanatomy*, 112: 101904. DOI: [10.1016/j.jchemneu.2020.101904](https://doi.org/10.1016/j.jchemneu.2020.101904)
45. Kumbar J and **Ganesh CB**. (2022). Melanin-concentrating hormone interferes with the hypothalamic-pituitary-gonad axis in the Mozambique tilapia. *Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology*. 265: 111122. DOI: [10.1016/j.cbpa.2021.111122](https://doi.org/10.1016/j.cbpa.2021.111122)
46. Vijayalaxmi and **Ganesh CB**. (2022). The influence of Kappa opioid receptor antagonist 5'-Guanidinonaltrindole during reproductive stress response in the Mozambique tilapia. *Journal of Ichthyology* (Accepted).
47. Shinde D and **Ganesh CB**. (2022). Chronic exposure to aquacultural stressors affects pituitary-testis axis in the Mozambique tilapia *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*. DOI : [10.1007/s10695-022-01061-9](https://doi.org/10.1007/s10695-022-01061-9)

Popular Science Articles Published:

1. **Ganesh C. B.** (2002). Beating stress. *Science Reporter*, Aug. Vol. 39. p. 60-62.
2. **Ganesh C. B.** (2005). Fossils - The Lucky Accidents. *Science Reporter*, Sept. Vol. 42. p. 39-42.
3. **Ganesh C. B.** (2006). Thriving life in Deserts. *Science Reporter*, Dec. Vol. 43, p. 9-13.
4. **Ganesh C. B.** (2007). Incredible life in Deep Sea. *Science Reporter*, Oct. Vol. 44, p. 39-42.

Participation and presentation in National and International Conferences/symposia: 40

Ph.D guidance: Awarded: 04 Registered: 06

Research Projects:

1. “Studies on influence of stress and stress related peptides on ovarian functions in the fish, *Tilapia mossambicus*” granted by DST, New Delhi (Rs. 23.46 lakhs) 2007-2011– **completed**.
2. “Influence of Environmental factors on the spawning cycle of the fish *Oreochromis mossambicus*” granted by UGC, New Delhi (Rs. 10.55 lakhs) 2012– approved, but not implemented.
3. “Opioidergic regulation of reproductive stress response in the fish *Oreochromis mossambicus*” funded by SERB-DST, New Delhi (Rs. 27.83 lakhs)- 2012-2017 – **completed**.
4. “Elucidation of neuroendocrine effects of urotensin I, MCH, and α -MSH on pituitary-ovary axis in the fish *Oreochromis mossambicus*’ funded by SERB-DST, New Delhi (Rs. 42.03 lakhs) –2018-2021 – **completed**.
5. “Neuroendocrine regulation of enkephalins, dynorphin and galanin along the reproductive axis in the gecko *Hemidactylus frenatus*” funded by SERB-DST, New Delhi (Rs. 28.48 lakhs) - 2020-2023 – **ongoing**.

6. “Dopaminergic regulation of reproduction and hatchling success in the viviparous mosquitofish *Gambusia affinis*” - Departmental project funded by UGC-SAP-DSA-1, New Delhi (1.56 crores) 2015-2020 – **completed.**

Academic responsibilities held:

- Chairman, Department of Zoology, Karnatak University, Dharwad (KUD) (2018 to April 2020)
- Chairman, BOS, Department of Zoology, KUD (2018 to April 2020)
- Chairman, BOE, Department of Zoology, KUD (2013-2015, 2017-18)
- Chairman, BOS, Department of Zoology, Davangere University, Davangere (2019-2022)
- Chairman, BOE, Department of Zoology, Davangere University, Davangere (2021)
- Member, BOA in Zoology for UG and PG, KUD (2018-20)
- Member, BOA in Zoology of different Universities
- External Member, Academy of Science & Technology, Davangere University (2019-2021)
- Coordinator, UGC-SAP (DSA-1), Department of Zoology, KUD (2019-2020)
- Organizing secretary, UGC and DST sponsored National Symposium (NSRED-2018)
- Convener & organizing secretary, UGC sponsored National Seminar (NSCRDR-2020)
- DBT Nominee, IBSC, IIT, Dharwad (2019 to present)
- Local observer, KSET examination, KUD (2020-2021)
- Member, Local Inquiry Committee, KUD (2019-2021)
- Expert for evaluation of International Projects, Research Grants Council, Hongkong (2020-2022)

(C.B. GANESH)