Dr. C.B. Ganesh
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Dr. C.B. Ganesh obtained his M.Sc. degree in 1997 from the Department of Studies in Zoology, University of Mysore, Mysuru, and qualified in KSET for lectureship in 1998. Subsequently, he obtained his B.Ed. and Ph.D. degrees from the same university. He joined Karnatak Science College, Dharwad, as a Lecturer in Zoology in 2003. Dr. Ganesh was later appointed as an Associate professor in the Department of Zoology at Karnatak University, Dharwad (KUD), in 2012, promoted to Professor in 2015, and then to Senior Professor in 2025. He has published about 86 papers in National and International journals of repute and presented about 60 papers at National and International conferences. Besides, Dr. Ganesh has delivered about 27 invited lectures on various scientific platforms and published four popular science articles. His area of research is 'Neuroendocrinology & Reproductive Biology of Vertebrates.' He has successfully guided nine students for the Ph.D. degree. His seven research papers have been recognized as the 'Best research paper in science for the years 2015, 2016, 2017, 2020, 2021, 2023 and 2024' by KUD. Some of the images from his research papers have also appeared as cover pages in journals like *Journal of Neuroendocrinology (Wiley, USA)*, *Journal of Chemical Neuroanatomy (Elsevier, USA),* and *General and Comparative Endocrinology (Elsevier, USA)*.

Research Projects handled:

- "Studies on influence of stress and stress related peptides on ovarian functions in the fish, *Oreochromis mossambicus*" granted by DST, New Delhi (Rs. 23.46 lakhs) 2007-2011– **completed.**
- "Opioidergic regulation of reproductive stress response in the fish *Oreochromis mossambicus*" funded by SERB-DST, New Delhi (Rs. 27.83 lakhs)- 2013-2017 – **completed.**
- "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.**
- "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 – **completed.**
- **"**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.**

H-index: 17

Total Number of Research Publications: 86

Research Publications (Last five years)

1. Ganeyan A, **Ganesh CB** (2026). The influence of galanin receptor agonist during the seasonal recrudescence and nonbreeding phases of the ovarian cycle in the gekkonid lizard *Hemidactylus frenatus*. ***Neuropeptides***. 117, 102614. https://doi.org/10.1016/j.npep.2026.102614
2. Hotha A, **Ganesh CB** (2026). GABAergic neuronal ontogeny in the central nervous system of the viviparous teleost *Poecilia sphenops*. ***Neurochemistry International***. 196, 106155. https://doi.org/10.1016/j.neuint.2026.106155
3. Hotha A, **Ganesh CB** (2026). Reproductive stress response in male black molly *Poecilia sphenops*: Evidence for receptor specific regulation by GABA. ***Journal of Neuroendocrinology***. 38(2), e70140. https://doi.org/10.1111/jne.70140
4. Konkal P, **Ganesh CB** (2026). Melatonin-induced disruption of spermatogenesis and hypophyseal function in the Mozambique tilapia (*Oreochromis mossambicus*). ***The Journal of Basic and Applied Zoology****.* 87, 25. https://doi.org/10.1186/s41936-026-00561-x
5. Hotha A, **Ganesh CB** (2026). $GABA_A$ and $GABA_B$ receptor agonists differentially regulate the reproductive axis in the black molly *Poecilia sphenops.* ***Aquaculture and Fisheries****.* 11(1), 71-83. https://doi.org/10.1016/j.aaf.2025.06.004
6. Hotha A, **Ganesh CB** (2025). $GABA_A$ and $GABA_B$ receptor agonists promote the hypothalamic-pituitary-ovarian axis in the postfertilization model *Poecilia sphenops*. ***Molecular Reproduction and Development***. *92*(7), e70041. https://doi.org/10.1002/mrd.70041
7. Biradar A, **Ganesh CB** (2025). Involvement of galanin in reproduction of male tilapia, *Oreochromis mossambicus*. ***Fish Physiology and Biochemistry***. *51*(4), 117. https://doi.org/10.1007/s10695-025-01527-6
8. Ganeyan A, **Ganesh CB** (2025). Involvement of enkephalinergic system in the reproductive stress response of the gecko *Hemidactylus frenatus*. ***Psychoneuroendocrinology***.179, 107518. https://doi.org/10.1016/j.psyneuen.2025.107518
9. Gouda M, **Ganesh CB** (2025). Regulation of the gut-brain-pituitary-gonad axis in tilapia: Evidence for the involvement of orexin. ***Neuropeptides***. *111*, 102525. https://doi.org/10.1016/j.npep.2025.102525
10. Ganeyan A, **Ganesh CB** (2025). Dynorphin secreting neuronal system in the brain of the gecko: An immunocytochemical study. ***Brain Mechanisms***. 145-147, 202508. https://doi.org/10.1016/j.bramec.2025.202508
11. Ganeyan A, **Ganesh CB** (2025). The role of the opioid peptide dynorphin during the seasonal and gonadotropin-induced ovarian recrudescence in the gecko. ***General and Comparative Endocrinology***. 363, 114684. https://doi.org/10.1016/j.ygcen.2025.114684
12. Gouda M, **Ganesh CB** (2025). Food intake and the HPT axis in the cichlid fish: The implications of the gut-brain peptide cholecystokinin. ***Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology****.* 302, 111813. https://doi.org/10.1016/j.cbpa.2025.111813
13. Konkal P, Bhat SK, **Ganesh CB** (2025). Exposure to long or short photoperiod affects the pituitary-testicular axis in the Mozambique tilapia. ***Journal of Ichthyology***. DOI: 10.1134/S0032945224602513
14. Ganeyan A, **Ganesh CB** (2024). Exposure to chronic stress impedes seasonal and gonadotropin-induced ovarian recrudescence in the gecko *Hemidactylus frenatus*. ***Reproductive Biology***. 24 (4),100957, https://doi.org/10.1016/j.repbio.2024.100957
15. Gouda M, **Ganesh CB** (2024). The influence of ghrelin agonist ipamorelin acetate on the hypothalamic-pituitary-testicular axis in a cichlid fish, *Oreochromis mossambicus*. ***Animal Reproduction Science****.* 268, 107550. https://doi.org/10.1016/j.anireprosci.2024.107550

16. Ganeyan A, **Ganesh CB** (2024). Organization of enkephalinergic neuronal system in the central nervous system of the gecko *Hemidactylus frenatus*. ***Brain Structure and Function***. 229(6), 1365–1395. https://doi.org/10.1007/s00429-024-02805-4
17. Kumbar J, **Ganesh CB** (2024). Urotensin-I suppresses the hypothalamo-hypophyseal-ovarian axis in the Mozambique tilapia, *Oreochromis mossambicus.* ***Aquaculture and Fisheries***. 9(3), 339-346. https://doi.org/10.1016/j.aaf.2023.03.004
18. Biradar A, **Ganesh CB** (2024). Serotonin-immunoreactivity in the brain of the cichlid fish *Oreochromis mossambicus*. ***Anatomical Record (Hoboken, N.J.: 2007)*.** 307 (2), 320-344. https://doi.org/10.1002/ar.25204
19. Shinde D, Bhat SK, **Ganesh CB** (2024). The opioid peptide dynorphin interferes with testicular activity in Mozambique tilapia. ***Fisheries Science***. 90, 425–433. https://doi.org/10.1007/s12562-024-01766-1
20. Shinde D, Bhat SK, **Ganesh CB** (2024). The opioid peptide leucine enkephalin modulates hypothalamic-hypophysial axis in the cichlid fish *Oreochromis mossambicus*. ***Animal Reproduction Science***. 263, 107451. https://doi.org/10.1016/j.anireprosci.2024.107451
21. Shinde D, Bhat SK, **Ganesh CB** (2024). The opioid peptide β-endorphin interferes with the pituitary-testis axis in the Mozambique tilapia *Oreochromis mossambicus*. ***Fish Physiology and Biochemistry***. 50(2), 733–743. https://doi.org/10.1007/s10695-024-01302-z
22. Biradar A, **Ganesh CB** (2024). Histamine H2 receptor agonist dimaprit dihydrochloride stimulates the hypothalamo-hypophysial-testicular axis in the cichlid fish *Oreochromis mossambicus*. ***Aquaculture****.* 579, 740163. https://doi.org/10.1016/j.aquaculture.2023.740163
23. Ganeyan A, **Ganesh CB** (2023). The influence of the opioid pentapeptide methionine-enkephalin on seasonal and FSH-induced ovarian recrudescence in the gecko *Hemidactylus frenatus*. ***General and Comparative Endocrinology***. 342, 114353. https://doi.org/10.1016/j.ygcen.2023.114353
24. Hotha A, **Ganesh CB** (2023). GABA-immunoreactive neurons in the Central Nervous System of the viviparous teleost *Poecilia sphenops*. ***Journal of Chemical Neuroanatomy***. 133, 102339. https://doi.org/10.1016/j.jchemneu.2023.102339
25. Gouda M, **Ganesh CB** (2023). Chronic starvation-induced alterations in biochemical parameters and hypothalamic-pituitary-testicular axis in the Mozambique tilapia *Oreochromis mossambicus* (Cichlidae). ***Journal of Ichthyology***. 63, 1172–1187. https://doi.org/10.1134/S003294522306005X
26. Ganeyan A, **Ganesh CB** (2023). The opioid peptide leucine-enkephalin disrupts seasonal and gonadotropin-induced ovarian recrudescence in the gecko *Hemidactylus frenatus*. ***Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology***. 283, 111454. https://doi.org/10.1016/j.cbpa.2023.111454
27. Ganeyan A, **Ganesh CB** (2023). Organization of the galaninergic neuronal system in the brain of the gecko *Hemidactylus frenatus*. ***Neuropeptides***. 97, 102310. https://doi.org/10.1016/j.npep.2022.102310
28. Bhat SK, **Ganesh CB** (2023). Organization of serotonergic system in *Sphaerotheca breviceps* (Dicroglossidae) tadpole brain. ***Cell and Tissue Research***. 391(1), 67–86. https://doi.org/10.1007/s00441-022-03709-7
29. Kumbar J, **Ganesh CB** (2022). Organization of the Melanin concentrating hormone secreting neuronal system in the brain of the cichlid fish *Oreochromis mossambicus*. ***Journal of Chemical Neuroanatomy***. 124, 102141. https://doi.org/10.1016/j.jchemneu.2022.102141
30. Shinde D, **Ganesh CB** (2022). Chronic exposure to aquacultural stressors affects pituitary-testis axis in the Mozambique tilapia *Oreochromis mossambicus*. ***Fish Physiology and Biochemistry****.* 48, 437–448. https://doi.org/10.1007/s10695-022-01061-9
31. Vijayalaxmi, **Ganesh CB** (2022). The influence of Kappa opioid receptor antagonist 5'-Guanidinonaltrindole during reproductive stress response in the Mozambique tilapia. ***Journal of Ichthyology****.* 62, 977–986. https://doi.org/10.1134/S003294522205023X

32. 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. https://doi.org/10.1016/j.cbpa.2021.111122
33. **Ganesh CB** (2021). The stress - Reproductive axis in fish: The involvement of functional neuroanatomical systems in the brain. ***Journal of Chemical Neuroanatomy***. 112, 101904. https://doi.org/10.1016/j.jchemneu.2020.101904
34. 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. https://doi.org/10.1016/j.jchemneu.2021.102033
35. Kumbar J, **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. https://doi.org/10.1007/s10695-021-01005-9
36. Kumbar J, **Ganesh CB** (2021). Alpha-melanocyte stimulating hormone immunoreactivity in the brain of the cichlid fish *Oreochromis mossambicus*. ***Neuropeptides***. 87, 102128. https://doi.org/10.1016/j.npep.2021.102128
37. **Ganesh CB**, Vijayalaxmi (2021). Neuroanatomical organization of methionine-enkephalinergic system in the brain of the Mozambique tilapia *Oreochromis mossambicus*. ***Journal of Chemical Neuroanatomy***. 115, 101963. https://doi.org/10.1016/j.jchemneu.2021.101963

Academic responsibilities held:

- Chairman, Department of Zoology, KUD (2018 to 2020)
- Chairman, BOS, Department of Zoology, KUD (2018 to 2020) and Davangere University, Davangere (2019-2022)
- Chairman, BOE, Department of Zoology, KUD (2013-2015, 2017-18, 2023-24) and Davangere University, Davangere (2021)
- Member, BOA in Zoology for UG and PG, KUD (2018-20)
- Member, BOA in Zoology, Vice-chancellor's nominee for UG and PG, VSK University, Ballari (2018 and 2023)
- Member, BOA in Zoology, Governor Nominee for PG, University of Mysore, Mysuru (2021, 2022)
- Member, BOA in Zoology, RTM Nagpur University, Nagpur (2024-present)
- External Member, Academy of Science & Technology, Davangere University (2019-2021)
- Coordinator, UGC-SAP (DSA-1), Department of Zoology, KUD (2019-2020)
- Organizing secretary, National Symposium (NSRED-2018)
- Convener & Organizing secretary, National Seminar (NSCRDR-2020)
- DBT Nominee, IBSC, IIT, Dharwad (2019 to present)
- Member secretary, Institutional Animal Ethics Committee (IAEC), KUD
- Local observer, KSET examination, KUD (2020-2021)
- Member, Local Inquiry Committee, KUD (2019 to present)
- Executive council member, Indian Society for Comparative Endocrinology, New Delhi.
- Academic Reviewer for evaluation of research projects, ANRF (SERB-DST) and UGC, New Delhi.
- Academic Reviewer for evaluation of International Projects, Research Grants Council, Hong Kong.
- Organizing secretary, National Seminar (NSRAAS-2025) sponsored by PM-UShA Grant.
- Subject expert for Public Service Commission (2026 to present).

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