



PROFILE

Dedicated to promoting global peace through my research, I am a staunch advocate for environmental preservation. One of life's main goals should be to learn about and coexist with nature. Utilizing scientific understanding to protect and maintain natural areas. I hope to make a difference by sharing what I've learned about conservation, I'm a teacher by profession, and I've had the fantastic opportunity to inspire and direct a huge student body. I've finished several projects successfully because I have a strong dedication to the truth and a long-term perspective. Many people have read my works because they include genuine scientific information and present a novel challenge to popular misconceptions in the scientific community.

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HOBBIES

Nature Watching
Trekking
Reading
Writing

DR. R. SANIL

Associate Professor & the Head

Department of Zoology, Government Arts College, Udthagamandalam,
The Nilgiris- 643002, Tamil Nadu, India.

EDUCATION

Ph. D (Zoology)
2012 – 2019 (Part Time)

Ph. D (Biochemistry)
1995 - 2000

M.Sc (Zoology)
1992-1994

B.Sc (Zoology with Botany and Biochemistry as subsidiary)
1989-1992

WORK EXPERIENCE

Associate Professor
22nd October 2010 to till date

Reader
Redesignated as Reader from Date of Selection Grade

Selection Grade Lecturer
22nd October 2008 to 21st October 2010

Senior Grade Lecturer
20th October 2002 – 21st October 2008

Lecturer
20th October 1998 – 19th October 2002

Senior Research Fellow (CSIR-SRF)
1998 January -18th September 1998

Junior Research fellow (CSIR-JRF)
1995-1998

Name : Dr. Raveendranathanpillai Sanil
(Dr. R. Sanil)

Date of Birth; 23.05.1972

Residential Address 36A1, Colloege Road,
College Road, Coonoor 643102
The Nilgiris, Tamilnadu, India.

Qualifications: M.Sc., Zoology
(M.G. University, Kottayam, 1994)

Ph.D., Biochemistry
(M.G. University, Kottayam, 2000)

Ph.D., Zoology
(Bharathiar University, Coimbatore 2022)

Academic Qualifications CSIR(JRF),1995

CSIR(SRF), 1997

GATE, 1995

Present Designation:
Associate Professor
Molecular Biodiversity Lab
Department of Zoology & Wildlife Biology.
Government Arts College, Udhagamandalam -643 002

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Service/ Experience Details (Government of Tamilnadu):

1. Lecturer in Zoology at Government Arts College, Udhagamandalam 1998
2. Lecturer in Zoology (SS) at Government Arts College, Ooty 2002
3. Lecturer in zoology (SG) at Government Arts College, Ooty 2008
4. Reader in Zoology at Government Arts College, Ooty 2008
5. Associate Professor of Zoology 2010
6. Associate Professor in Charge of Molecular Biodiversity Lab 2010
7. Associate Professor and the Head of the Department 2022

Research Guidance

No of Ph.D Guided: 11
No of Scholars at Present: 6
No of M.Phil completed: 18

Academic Positions

1. Member of Board of Studies in Microbiology, Periyar university 2010-14
2. Member PG board of Zoology, Bharathiar University, Coimbatore 2014 - 17
3. Senate Member Bharathiar University, Coimbatore 2015-2017
4. Chariman, UG board of Zoology, Bharathiar University, Coimbatore 2014 - 17
5. Co-ordinator, State Integrated board of Zoology, Tamilnadu State Council for Higher Education 2017 onwards.
6. Member PG board of Zoology, Bharathiar University, Coimbatore 2017 onwards.
7. Member, Academic Council, Bharathiar University, Coimbatore 2017 onwards.
8. Special Invitee, Board of Research, Bharathiar University 2021-2022
9. Member of Senate, Bharathiar University, 2019 – 2022
10. Member, Governing Council, Tips College of Arts and Science, Coimbatore 2022 - 2025.
11. Bharathiar University Nominee, Pass Board, CMS college, Coimbatore 2022 – 2024.

Other academic duties performed

1. Evaluator of Ph. D thesis for the M.G. University, Kottayam; Calicut University, Kozhikode; BAMU, Aurangabad; Kannur University, Kannur; SCSVMV, Kanchipuram.
2. External examiner for PhD open Defense for M.G. University, Kottayam; Calicut University, Kozhikode; BAMU, Aurangabad; SCSVMV, Kanchipuram.
3. Subject Expert as Vice Chancellor Nominee for Doctoral committees of various colleges in Bharathiar University.
4. Member of Examination Squad of Bharathiar University.
5. Chairman for UG paper evaluation of Bharathiar University, Coimbatore.
6. Member of Pass board for Bharathiar University, Coimbatore.
7. Chief Examiner for UG paper evaluation of Bharathiar University, Coimbatore.
8. Examiner for theory and Practical of Bharathiar University, Government Arts College (Autonomous), Coimbatore, Konganadu Arts and Science College, Coimbatore.
9. External Academic Auditor, PSGRK, Coimbatore 2022

Abroad Trainings

1. Methods in population genetics assessment , University of Edinburg, UK, 2017
2. Molecular techniques in wildlife population Assessment, Denver USA, 2019.
3. Ivory identification and competency, US Fish and Wildlife, Ashland, OR, USA 2022.
4. Microsatellite Analysis, US Fish and Wildlife, Ashland, OR, USA 2022.

Abroad Conferences

1. Conference organized by University of Ruhuna, Sri Lanka
2. Biannual Meeting of society for Wildlife forensics at UK 2017
3. Biannual Meeting of society for Wildlife forensics at USA 2019
4. Biannual Meeting of society for Wildlife forensics at USA 2022

Papers in Peer Reviewed Journals

1. Nair R.H., Kesavachandran C., **Sanil R.** et al. Prediction equation for lung functions in south Indian Children. *Indian J Physiol Pharmacol.* 1997, 41(4) pp 390-6
2. Kesavachandran C., **Sanil R.**, etal. Pulmonary function studies in rowers. *Indian J Physiol Pharmacol.* 1997, 41(4) pp 29-34
3. Elizabeth S., Kesavachandran C., **Sanil R.**, and Shashidhar S., Effect of Cigarette smoking on lung function. *Poll Res.* 17(3)pp247-250
4. Jyothi M., **Sanil R.**, etal Antioxidant enzymes and peroxidation and galactogenic cataract. *Indian J Physiol Pharmacol.* 1997, 47(2) pp 1 91-196
5. Jyothi M., Sanil R., & Shashidhar S. HMP Shunt Pathway in Galactose Cataract *Indian J of Comp. Animal Physiol.* 2001(19) pp31-34
6. **Sanil R.**, Jyothi M., Shashidhar S. HMG Co A reductase and hepatocytic hyperlipidemia in various oil fed rats *IJBB* 2008 4(3).
7. **Sanil R.** & Charles Leo Prabhu Studies On The Impact Of Biotic Stress In Near Shore Coral Areas Of Palk Bay. *Journal of Basic and Applied Biology*, 3(1 & 2), 2009, pp. 87-92.
8. Premalatha S., **Sanil R.** Franklin C.J Shola trees in the upper Nilgiris of Western Ghats *Journal of Basic and Applied Biology*, 2009 3(3 &4)
9. Franklin C Jose, Sudheer Mohemmed M. **Sanil R.**, Dorai M.,& Madanan M.G. Analysis of phaseolin and total storage protein-based diversity in common bean landraces of Nilgiri using SDS-PAGE *The Indian Journal of Genetics & Plant breeding.* 2010 70(1)
10. Jyothi, M., **Sanil, R.**, & Shashidhar, S. (2011). Influence of galactose cataract on erythrocytic and lenticular glutathione metabolism in albino rats. *Indian journal of ophthalmology*, 59(4), 287
11. S.Vidya, S.Premalatha, **R.Sanil**, A.Jeyasankar Diversity Of High Altitude Insect Pests In Edible Crucifers *Environmental Science: An Indian Journal* Vol 6 Issue 5 2011
12. M. Jyothi, C. Priya,, **R. Sanil**, & Arun A. Rauf Hematological Disorder From The Kota Tribes Of The Nilgiris, India: Novel Research Report *Asian Journal of Biochemical and Pharmaceutical Research* Issue 4 (Vol. 2) 2012
13. R. Ravikumar, V. Ramasubramaniam and **R. Sanil** Characterization of chitinase enzyme from the gut content of mosquitofish, *Gambusia affinis* *Elixir Appl. Zoology* 63 (2013) 18369-183722013
14. **Sanil, R.**, Shameer, T. T., Mohan, G., & Ebanasar, J. Status Survey of Small Mammals in West Coastline tract of Southern Western Ghats, India. *International Journal Of Environmental Sciences* Volume 4, No 5, 2014
15. **Sanil, R.**, Shameer, T. T., and Easa P.S. Albinism in jungle cat andjackal along the coastline of the southern Western Ghats. *Cat News* 61: 23-25, 2014

16. Nazya A & **Sanil R.** Micro-arthropod Diversity with Special Emphasis to Collembolans in Eucalyptus Plantations of the Nilgiris, Tamil Nadu. *International Journal Of Environmental Sciences* 5(5):927-934 2015.
17. B.Sivaraj, C.Vidya, S.Nandini and **R.Sanil.** Antimicrobial Activity of *Cestrum aurantiacum* L *Int.J.Curr.Microbiol.App.Sci* (2015) 4(3): 830-834.
18. Bhavana, P.M., Nandhini, S., Vidya, S. and **Sanil, R** Avian Diversity And Dependency In The *Cestrum aurentiacum* Bushes, Nilgiris, India. *International Journal of Pure and Applied Zoology*. Volume 3, Issue 2, pp: 181-187, 2015.
19. Sivaraj, B., R. Radha, C. Vidya. and **R. Sanil** Prevalence of Glucose 6 Phosphate Dehydrogenase (G6PD) deficiency among the Badagas of the Nilgiris. *Asian Journal of Biochemical and Pharmaceutical Research*. Volume 5 Issue 1 295 – 299
20. A. Nazia, P. M. Bhavana, R. Radha, N. Sumithra, M. Jyothi and **R. Sanil** (2016) Soil Physico-Chemistry In Relation To Microarthropod Diversity In Wattle Plantations Of The Nilgiris. *CIBTech Journal of Zoology*. Vol. 5 (2) 16-19.
21. C. Vidya, R. Radha, B. Sivaraj, N. Sumithra, M. Jyothi & **R. Sanil** (2016) Population Structure of Indigenous Badagas Of The Nilgiris, Tamil Nadu Based On Polymorphic Blood Group Alleles. 6 (3) 1-7
22. Nandhini S. Mohan G. , Yogesh J. and **Sanil R.** (2017) Spatial Distribution And Resource Partitioning Of Sympatric Carnivores In The Mudumalai Tiger Reserve, Nilgiris, India *Cibtech Journal of Zoology*, 6 (1), pp.20-27
23. Ahmed, N., Sangale, D., Tiknaik, A., Prakash, B., Hange, R., **Sanil, R.**, Khan, S. and Khedkar, G., 2018. Authentication of origin of meat species processed under various Indian culinary procedures using DNA barcoding. *Food Control*, 90, pp.259-265.
24. Tiknaik, A., Kalyankar, A., Shingare, M., Suryawanshi, R., Prakash, B., Sontakke, T.A., Nalage, D., **Sanil, R.** and Khedkar, G., 2019. Refutation of media reports on introduction of the red bellied piranha and potential impacts on aquatic biodiversity in India. *Mitochondrial DNA Part A*, 30(4), pp.643-650.
25. Thunnisa, A.M. & **Sanil, R** (2019) A Review of Microarthropods and its dependency in mosses. *PARIPEX – Indian Journal of Research* 8(4) pp 197-168
26. Archana, R & **Sanil R** (2019) Recent trends in foetal haemoglobin research: A review. *International Journal of Basic and Applied Medical Sciences*, 9(1) pp13-23.
27. Raman, S., Shameer, T. T., **Sanil, R.**, Usha, P., & Kumar, S. Protrusive influence of climate change on the ecological niche of endemic brown mongoose (*Herpestes fuscus fuscus*): a MaxEnt approach from Western Ghats, India. *Modeling Earth Systems and Environment*, 1-12.
28. Raman, S., Shameer, T.T., Charles, B. and **Sanil, R.**, 2020. Habitat suitability model of endangered *Latidens salimalii* and the probable consequences of global warming. *Tropical ecology*, 61(4), pp.570-582.
29. Shankar, A., Salaria, N., **Sanil, R.**, Chackaravarthy, S.D. and Shameer, T.T., 2020. Spatio-temporal association of fishing cats with the mammalian assemblages in the East Godavari mangrove delta, India. *Mammal Study*, 45(4), pp.1-11.

30. Nittu, G., Bhavana, P.M., Shameer, T.T., Ramakrishnan, B., Archana, R., Kaushal, K.K., Khedkar, G.D., Mohan, G., Jyothi, M. and **Sanil, R.**, 2021. Simple Nested Allele-Specific approach with penultimate mismatch for precise species and sex identification of tiger and leopard. *Molecular Biology Reports*, pp.1-10.
31. Thunnisa, A.M., Sumithra, N., Narmatha, S., Jyothi, M. and **Sanil, R.**, 2021. New species of the genus *Bionychiurus* Pomorski, 1996 (Collembola: Onychiuridae) from India. *Biologia*, 76(11), pp.3399-3404. DOI: <https://doi.org/10.21203/rs.3.rs-156881/v1>
32. Shameer, T.T., Backer, S.J., Yogesh, J., Mujawar, A.N., Ali, S.Z., Raman, S., Kaushal, K.K., Reddy, S.R. and **Sanil, R.**, 2021. Phenotypic variations, habitat suitability, and diel activity of the endemic brown palm civets. *Geology, Ecology, and Landscapes*, pp.1-12
33. Nittu, G., Shameer, T.T., Nishanthini, N.K. and **Sanil, R.**, 2022. The tide of tiger poaching in India is rising! An investigation of the intertwined facts with a focus on conservation. *GeoJournal*, pp.1-14.
34. Shameer, T.T., Nittu, G., Mohan, G., Backer, S.J., Khedkar, G.D. and **Sanil, R.**, 2022. Consequences of climate change in allopatric speciation and endemism: modelling the biogeography of Dravidogecko. *Modeling Earth Systems and Environment*, 8(3), pp.3059-3072.
35. Shameer, T.T., Backer, S.J., Nandhini, S., Raman, S., Mujawar, A.N., Yogesh, J., Kaushal, K.K., Reddy, S.R., Nazia, A. and **Sanil, R.**, 2022. How do the sympatric forest mongooses coexist in the Western Ghats landscape? Insights from spatio-temporal approach. *Community Ecology*, 23(2), pp.231-245.
36. Thunnisa, A.M., Arbea, J.I., Sumithra, N., Mandal, G.P. and **Sanil, R.**, 2022. Two new species and two new records of Onychiurinae (Collembola, Onychiuridae) from the Nilgiris, India. *Zootaxa*, 5182(5), pp.448-464.
37. Archana, R., Vidya, C., Sumithra, N., Jyothi, M. and **Sanil, R.**, 2022. Arab-Indian– 530 β -distal promoter haplotype and sickle/Hb D heterozygosis in Badagas of Nilgiris: is it suggestive of Harappan origin?. *Journal of Genetics*, 101(1), pp.1-5.
38. Baskaran, N., Sundarraj, R.S. and **Sanil, R.**, 2022. Population, distribution and diet composition of Smooth-coated Otter *Lutrogale perspicillata* Geoffroy, 1826 in Hosur and Dharmapuri Forest Divisions, India. *Journal of Threatened Taxa*, 14(1), pp.20469-20477.
39. Shameer, T.T., Shankar, A., Salaria, N. and **Sanil, R.**, 2022. Blotched stripe patterns in fishing cats of Godavari delta region, India. *Mammal Research*, 67(4), pp.519-523.
40. Shameer, T.T., Bhavana, P.M., Mohan, G., Easa, P.S. and **Sanil, R.**, 2022. Camera traps reveal coat colour variation in an isolated population of golden jackals. *Current Science (00113891)*, 122(6).
41. Backer, S.J., Nittu G., Siddalingappa P.H., Yadav V.K., and **Sanil, R.**, 2022. Captive giraffes in Alipore Zoological Garden, Kolkata are Nubian!. *Proceedings of Zoological Society*, 75(4). <https://doi.org/10.1007/s12595-022-00457-y>
42. Koshy, E.A. & **Sanil, R** (2022) First record of *Milnesium Doyère*, 1840 (Tardigrada: Apochela) from the Western Ghats, India. *Jordan Journal of Natural History*, accepted for publication in December issue.

Papers in Proceedings

1. **Sanil R.** et al Conservation of lesser cats in the wetlands. Proceedings of National seminar on Conservation of wetlands.
2. Nandini S & **Sanil R.** Eco tourism in Mudumalai and interpretation programme: A case study. Proceedings of the National seminar on Eco tourism: issues and challenges 2009.
3. Jeyanthi M & **Sanil R.** Human animal conflict in the agricultural areas of the Nilgiris. Proceedings of the National conference on Endemic & Endangered Species of the Nilgiris. 2008
4. Jeyanthi M. & **Sanil R.** A Computer Programme for the spatial analysis of animal movement. Proceedings of the national conference in Biodiversity of natural shoals and its conservation. 2008
5. **Sanil R.** & Jyothi M. Animal movement models. Proceedings of the national conference in Biodiversity of natural shoals and its conservation.
6. Easwari E. S & **Sanil R.** Munitiacus muntjac (the barking deer) – A Species need urgent attention. Proceedings of the national conference in Biodiversity of natural shoals and its conservation. 2008

Details of books Published

1. **Sanil R.** Edited *Tribal development and Social Change in the Nilgiri District Since Independence.*(2008) HADP, The Nilgiris, Tamil Nadu
2. **Sanil R.** Edited *Endemic and endangered species of the Nilgiris.*(2008) HADP, The Nilgiris, Tamil Nadu

Seminars /Conferences as resource person/Chair person

1. National seminar on “*Life style changes*”, KKTM Govt College Kodungalur, Sponsored by the directorate of collegiate Education, Kerala, 2007
2. National Seminar on “*Biodiversity & Conservation*” Karpagam Arts & Science College, Sponsored by ministry of forest and Environment. 2007
3. National Seminar on “*Bioresources Conservaton and management*” at P.G.S.R. Krishnammal College for women. On 8th and 9th January 2010.
4. National Seminar on “*Implications of biodiversity in biotechnology*” Government Arts College, Udhamandalam.
5. National Seminar on “*Conservation of wetlands*” at St. Josephs college, Alleppey.
6. International conference on “*Emerging Trends In Environmental Research*” at St. Albers College, 2009.
7. International conference of KAAS “*Oxidative stress and diseases*” on December 5& 6, 2008.
8. State Level seminar on “*Eco tourism, Scope and Significance: the Nilgiri Perspective*” at Government Arts College, Ooty, 2007.

Profession related Training Courses

1. **Orientation course** (Multidisciplinary) at Kerala University from 02-01-2002 to 29-01-2002
2. **Refresher Course** in Life Science, at Kerala University from 26-12-2007 to 15-01-2007
3. **Refresher Course** in Life Science, at Bharathiar University 2009

Details of Research Projects Completed/Undertaken

1. ***Human Animal Conflicts in the Nilgiris, A study to suggest conservational strategies***(Status: Completed, Agency: UGC, 2002)
2. ***Microplanning for fringe village development around Mudumalai – A study of process of initiating Eco-Development in Mudumalai*** (Status: Completed, Agency: Forest Dept.2006)
3. ***Socio-economic and Forest dependence analysis among inhabitants of enclaves of Mudumalai*** (Status:Completed, Agency: Forest Department, 2006)
4. ***conflict***
5. ***Studies On The Impact Of Biotic Stress In Near Shore Coral Areas Of Palk Bay***(Status: Completed, Agency: TNSCST, 2008)
6. ***Phytochemistry & Drug Discovery from the Toda Medicinal Plants*** (Status: Completed, Agency: TNSCST &DBT 2009)
7. ***Prey Predator Relation ship at Mudumalai tiger reserve*** (Status: Completed, Agency: TNSCST & Project Tiger, Mudumalai TigerReserve2009)
8. ***Biodiversity and Ecosystem function of Soil fauna and its influence in various vegetation types in the Nilgiris*** (Status: Completed 2012, Agency: HADP (Autonomous body of Government of India)
9. ***Study of Status, Distribution and Ecology of Lesser Cats in Coastline tracts of Southern Western Ghats*** (Status: Completed -2013, Agency: University Grant Commission, New Delhi)
10. ***Genetic level variation of Haeomoglobinopathies and Glucose-6-Phosphate Dehydrogenase (G6PD among badagas of the Nilgiri hills*** (Status: Completed-2012, Tamilnadu State Council for Science and Technology, Chennai)
11. ***Synchronised monitoring of Camera trapping and barcoding of tigers of Mudumalai*** (Status: Completed-2012, Tamilnadu State Council for Science and Technology, Chennai)

Seminars/ Conferences / Workshops Organized

1. National conference on Endemic and Endangered species of the Nilgiris 2007
2. National workshop on Biodiversity assessment 2009
3. DST Inspire Programme 2017
4. DST Inspire Programme 2018
5. DST Inspire Programme 2019