

Name : Dr.P.R.Balasubramanian

Designation : Associate Professor and Head, Department of Zoology

Date of Birth : 10.06.1959

Residential Address : Adhithya Avenue
Kinathukadavu,

E-mail ID : prbaalu@gmail.com

Contact Number : 9677740401

Educational Qualification : M.Sc.,M.Phil.,M.A., B.Ed., PGDCA.,Ph.D

Teaching Experience : 21 years, Assistant Professor of Zoology, NGM College

Other Experience : Junior Research Fellow, Dept. of Science and Technology,
Govt.
of India, New Delhi (1983-1984).
: Junior Research Fellow & Senior Research Fellow,
Department
of Non-Conventional Energy Sources, Govt. of India, New
Delhi
(1986-1989).
: Research Associate, Council of Scientific and Industrial
Research, Govt. of India, New Delhi

Area of Specialization : Aquaculture, Waste Recycling Technology, Bio-energy.

Area of Interest : Teaching, Research and Administration

Academic activities : Chief Examiner, Question paper setter, Paper evaluator.

Awards and Recognition :

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| 1. | Research Associate | CSIR – RA | Post Doctoral Fellowship |
| 2. | Enhanced Research Associate | CSIR – RA | Post Doctoral Fellowship |
| 3. | Invited to membership 1996 | Newyork Academy of sciences, 2 East 63 rd Street, Ny 10021, USA | Interest in Science and Technology |
| 4. | 180 th Anniversary invitation to membership | Newyork Academy of sciences, 2 East 63 rd Street, Ny 10021, USA | Interest in Science and Technology |
| 5. | Biography published: WHO's WHO in science and Engineering – 4 th Edition | Marquis WHO's WHO, 121,Chablon Road, New Providence, NJ 07974, USA. | Research Publications |

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| 6. | Biography Published: WHO'S WHO in the world – 2000, 17 th Edition | MARQUIS WHO'S WHO, 121, Chanlon Road, New Providence, NJ 07974, USA | Research Publications |
| 7. | Invitee: The AISA 500- Leaders for the New Century, Barons WHOS WHO(USA) | BARONS WHO'S WHO, 11, Petria Ste. 100-110 Irvine, CA 926 06 USA. | Research Publications |
| 8. | The 20 th Century award for achievement 1998 and 2000 | International Biographical Centre, Cambridge CB2 3QP, England | Research Publications |
| 9. | WHO'S WHO IN AISA-2006 – 1 st Edition | Marquis WHO'S WHO, 890, Mountain Ave., Suit 4, New Providence NJ 97974, USA | Reference valve |
| 10. | 2000 Outstanding intellectuals of the 21 st Century (2007) | International Biographical Centre, St.Thomas Place, ELY CBT 4GG, Great Britain | Research Publications |
| 11. | International Scientist of the year for 2007 | International Biographical Centre, St.Thomas Place, ELY CBT 4GG, Great Britain | Research Publications |
| 12. | Leading Educators of the world - 2007 | International Biographical Centre, St.Thomas Place, ELY CBT 4GG, Great Britain | Educator |
| 13. | Treasurer (1999-2001) | Association of University Teachers (AUT) Regd – NGM College Unit. | Treasurer |
| 14. | Secretary (2007-2009) | Association of University Teachers (AUT) Regd – NGM College Unit. | Secretary |
| 15. | Joint Secretary (2007- 2009) | Association of University Teachers (AUT) Regd – TamilNadu | Joint Secretary |
| 16. | Vice Chariman (2009- 2011) | Association of University Teachers (AUT) Regd – NGM College Unit. | Vice Chariman |
| 17. | Vice Chariman (2011 - 2013) | Association of University Teachers (AUT) Regd – NGM College Unit. | Vice Chariman |
| 18. | Chariman (2015 - 2017) | Association of University Teachers (AUT) Regd – NGM College Unit. | Chariman |

Research Guidance

BHARATHIDASAN UNIVERSITY (BIOTECHNOLOGY)

- Zeenath.V.M.H, Biodiversity of Bees (Honey Bees) In Palakkad District of Kerala (India) Bharathidasan University, Thiruchirapalli, December, 2006.
- Radhamani. K, Evaluation of blood parameters of workers engaged in dyeing industry, Bharathidasan University, Thiruchirapalli, February, 2007.
- Yoosuf.C, Environment impact and biodegradation of spent automotive oil, Bharathidasan University, Thiruchirapalli, April 2007.

ANNAMALAI UNIVERSITY (ZOOLOGY)

- Mamtha.P. Evaluation of physico-chemical parameters and zooplankton population in Ooty lake during summer. Annamalai University, August 2007.

ALAGAPPA UNIVERSITY (ZOOLOGY)

- Evaluation of physico-chemical character of water of Cauvery river near Karur, Alagappa University, October 2007.

PERIYAR UNIVERSITY (ZOOLOGY)

- Prema.L, Evaluation on the blood parameters of a fresh water fish, *Cyprinus carpio* var. communities exposed to dimethoate. Periyar University January 2008.
- Shenbakavalli.S, A study on composition of aquatic insects and assessment of ecological health of three tropical hill streams of Tamil nadu. Periyar University, Salem. November 2008.
- Muthulakshmi, Water pollution hazards on quality of water and fish in selected places of Noyyal river basin, Tamil nadu, Periyar University, Salem. November 2008.
- Devimanohari. G, Biodiversity of Ants in various Agro Ecosystems and its uses as Bioindicator. Periyar University, Salem. December 2008.

BHARATHIYAR UNIVERSITY (ZOOLOGY)

- Vidhyalakshmi. M, Evaluation of the efficiency of *Lemna minor* L. in the phyto-remediation of textile dyeing effluent. Bharathiyar University, Coimbatore. November 2015.

Mini project/Major project

Paper Publication

1. Lakshmanan KK, Ganapathy.A and Balasubramanian.P.R. (1984), Mangrove Phytosociology in Tamilnadu. J.Swamy. Bot,1(1): 35-48 MKU Press, India.
2. Balasubramanian.P.R. and Kasthuri Bai .R (1988), Integrated system of Biogas technology using cattle dung. Proc. Of X All seminar in Tamil on Biology and Biotechnology (Eds.Anandavalli.M) MKU Press, India.249-254.
3. Balasubramanian.P.R. and Kasthuri Bai .R (1992). Biogas plant slurry recycling aquatic plant culture, *Wolffia sp.* Environment and Ecology, 10 (2) 247-251.
4. Balasubramanian.P.R. and Kasthuri Bai .R (1992). A study on the utilization of digested biogas plant slurry for aquatic plant biomass production. Pollution Research, 11(1),1-11. Environ.Media.Kaead, India
5. Balasubramanian.P.R. and Kasthuri Bai .R (1992). Recycling of biogas plant slurry grown *Lemna sp.* Plants for biogas production. In the proceedings of 31st Annual Conference, Association of Microbiologists of India, (Eds.S.Kannaiyan.K.Ramasamy.K, Illamurugu and Kumar.K) TNAU, Coimbatore, 154-158.
6. Balasubramanian.P.R. and Kasthuri Bai .R (1992). Biogas plant slurry recycling aquatic plant culture, *Lemna sp.* J.Bioresource Technology, 41(3), 213 -216, Elsevier applied science, oxford, UK.
7. Balasubramanian.P.R. Kasthuri Bai .R (1992), Evaluation of nutrient recovery after anaerobic digestion of cattle dung in family size biogas plant. J.Biomass & Bioenergy 3(5), 377 -380. Pergamon press, Oxford, New York, Frankfurt, Sydney, Tokyo.
8. Balasubramanian.P.R. Kasthuri Bai .R (1993). Recycling of biodigested slurry for integrated aquaculture. In.Biogas slurry utilization. CORT (Consortium on rural technology: publisher) New Delhi, pp 116-125.
9. Balasubramanian.P.R. Kasthuri Bai .R (1994). Utilisation of anaerobically digested cattle dung slurry for the culture of Zooplankton *Daphnia similis* (Crustacea: Cladocera) Asian Fisheries Sciences. 7, 67-76. Society of Asian Fisheries Science, Manila, Phillipines.
10. Balasubramanian.P.R. Kasthuri Bai .R (1994). Biogas plant effluent as an organic fertilizer in fish polyculture. J. Bioresource Technology, 50(3): 189 -192. Elsevier Applied Science, Oxford, UK.
11. Balasubramanian.P.R. Kasthuri Bai .R (1995). Recycling of cattle dung, biogas plant effluent and water hyacinth in Vermiculture. J. Bioresource Technology, 52(1), 85-87. Elsevier Applied Science, Oxford, UK.
12. Balasubramanian.P.R. Kasthuri Bai .R (1995). Evaluation on the effect of aeration on nutrient pattern in diluted biogas plant effluent treatment. Pollution Research.14(3): 357 – 264 Enviro media, Karad, India.

13. Balasubramanian.P.R. Kasthuri Bai .R (1996). Biogas plant effluent as an organic fertilizer in all male culture of *Oreochromis mossambicus*. J.Bioresource Technology. 55(2), 119-124. Elsevier Applied Science, Oxford, UK.
14. Gopal.V., Prabakaran,S. and Balasubramanian,P.R. (1996). Effect of a biogas plant effluent based pelleted diet on the growth of *Oreochromis mossambicus* fingerlings. Bioresource Technology, 58(3): 315-317. Elsevier Science, UK.
15. Balasubramanian,P.R. and Gopal,V. (1997). Preliminary simple biological techniques for extending survival duration of fish in lethal medium of different types of environmental pollutants – A Review. Environment, Ecology and Conservation, 3(1):27-34, Enviro Media, Karad, India.
16. Babu,R., Balasubramanian.P.R. and Gopal,V (1997). Studies on the respiratory physiology of teleost fish *Labeo porecellus* during recovery after exposure to tannery effluent 1997, Indian J.Environmental Protection, 17(2):115-118.
17. Umamaheswari,M., Indira, C.V.R., Balasubramanian,P.R., Prabakaran,S., Babu,R and Gopal.V (1997). Impact of ambient air quality due to cement making. A case study of the A.C.C Ltd., Madukkarai, Coimbatore. Pollution Research, 16(2): 103-104, Enviro Media, Karad, India.
18. Babu,R.,Balasubramanian.P.R. and Gopal.V(1997). Assessment of ambient air quality monitoring in and around the Hindustan Photo Film Manufacturing Company, Ooty. J. Environmental Protection 511-512.
19. Gopal.V., Umamaheswari,M and Balasubramanian.P.R. (1997). Effect of cement dust on ambient air quality and on blood cytogenetic change in human – A case study of cement industry workers. J. of Ecotoxicology and Environmental monitoring 7(1):017-021. Palani Paramount Publications, Palani, India.
20. Gopal.V., Sujatha,S., Prabakaran and Balasubramanian,P.R.(1997). Effect of dietary inclusion of low cost ingredient, biogas- plant effluent in the muscle, brain and liver tissue composition of rohu (*Labeo rohita*) fingerlings. Proceedings of the National Academy of Sciences, 67 (B)-II, 121-126.
21. Gopal,V., Parvathy and Balasubramanian,P.R.(1997). Effect of heavy metals on the blood protein biochemistry of the fish *Cyprinus carpio* and its use as a bio-indicator or pollution stress. Environmental monitoring and assessment, 48(2) : 117-124. (Kluwer Academic Publishers, The Netherlands).
22. Evaluation of the efficiency of *lemna minor l.* in the phytoremediation of textile dyeing effluent. Vidhyalakshmi, M and Balasubramanian, P.R. (2016). In National level seminar on Eco-Waste Management and NanoBiology organized by Department of Zoology, Sri. G.V.G. Vishalakshi College for Women, Udumalpet. pp. 15-21.Published by BONFRING publishers, Coimbatore. ISBN 9789386176363.

Papers presented in National and International Level Seminar/ Conference/ Symposia:

1. Balasubramanian.P.R. and Gopal.V (1986), Influence of storage period and light on the production of Biogas by animal dung. IN: National Solar Energy Convention, Madurai,p.51
2. Seminar on Energy, Environment and Natural Resources (1987), Madurai, p.8(Publication No.9)
3. Balasubramanian.P.R. and Gopal.V (1987), Influence of sewage grown water Hyacinth and gobalt on the production of Biogas, Seminar on Energy, Environment and Natural Resources, Madurai.p.14
4. Seminar on Energy, Environment and Natural Resources (1988), Madurai, p.11 (Publication No.11)
5. All India Seminars in Tamil on Biology and Biotechnology (1988) M.K.University, Madurai, India. (Publication No.2).
6. National Seminar on Agro-Technology and Bio Energy for sustained Crops and Agro-Industrial Productivity, (1990) May 10-11, Pune, p.66 (Publication No.3).
7. World Aquaculture 90 Conference, (1990) June 10-14, Halifax, Canada.p.108. (Publication No.6).
8. Balasubramanian,P.R. and Kasthuri Bai, R (1990). Biogas plant waste recycling through aquatic plant culture. In: National Symposium on Current Trends in Biotechnology, Nov.28-30, Kochi, India.p.112.
9. 31st Annual Conference, Association of Microbiologists of India (1990), Jan.23-25, TNAU, Coimbatore, India. (Publication No.5).
10. National Seminar on The Role of Renewable Energy in Plantation,(1991). March1-2, Madurai. (Publication No.7).
11. International Conference on feed resources, production and processing technology, (1991) Dec.28-30, Artemia Research Station Muttom, India. (Publication No.9& 14).
12. National Workshop on Biogas Slurry Utilization, (1992) Oct.29-31, New Delhi (Publication No.8).
13. National Symposium on Aquaculture for 2000 AD, (1994) Nov.26-27 Madurai. (Publication No.14).
14. Gopal.V, Parvathy.S and Balasubramanian.P.R (1995). Heavy Metal Toxic Induction of Globulin and Fish Health in National Seminar on Aquatic Animal Health, Trivandrum, March 1995.
15. Gopal.V, Lakshmi.D. and Balasubramanian.P.R (1995) Pyrethroid induced immune response and fish health, in National Seminar on Aquatic animal health, Trivandrum, March 1995.
16. Gopal.V, Lakshmi.D. Parvathy.S and Balasubramanian.P.R(1995), Acetylcholine Esterase activity as a biomonitoring tool of water pollution in National seminar on Man, Industry and Environment. April 5-7, MIE -46,p 65-63

17. Gopal.V, Rani.V and Balasubramanian,P.R (1995), Effect of digested biogas plant effluent based pelleted diet on growth of *Cyprinus carpio* fingerlings. In: Annual Convention of food scientists and technologists(India), Food process engineering – Recent trends and developments – CFTRI, Mysore, September 7-9, c17,p71.
18. Gopal.V, Sujatha.S, and Balasubramanian,P.R. (1995), Biogas plant effluent as a supplementary feed for growing *Labeo rohita* fingerlings. In: Annual Convention of food scientists and technologists(India), Food process engineering – Recent trends and developments – CFTRI, Mysore, September 7-9, c17,p71.
19. Umamaheshwari.M, Balasubramanian,P.R. and Gopal.V, (1995), Effect of cement dust on ambient air quality and on blood cytogenetic change in human. In: National Conference on Environment, health and Genetic risk, 5-6th November, Institute of Genetics, Osmania University, Hyderabad, India.
20. Gopal.V,Prabakaran.S,Ramesh.N, Umamaheshwari.M, Balasubramanian,P.R. (1995), Studies on the utilization of silkworm excreta for vermiculture (*Megascolex* sp.) and on germination and growth of plant *Vigna sinensis* (cowpea). In.: Second Congress on Traditional Sciences and Technologies of India, Dec.27-31, 1995, Anna Univeristy, Madras.
21. Gopal.V, Srinivasan.R, Bagiyam.V, Parvathy.S, and Balasubramanian,P.R. (1995), Studies on appropriate timing of the release of industrial effluents around river basins and a biological depollution technique. Seminar on the Bhavani River Basin, Salim Ali Centre for Ornithology and Natural History.9, Coimbatore.
22. Gopal.V, , Umamaheshwari.M, Balasubramanian,P.R. (1997), Cultivation of hydrocarbon yielding plant *Euphorbia tirucalli* – A new source of biofuel energy, National Symposium on Natural Resources Management System, St.Joseph's College, Tiruchi, Feb.26-28,p75-76.
23. Umamaheshwari.M, Balasubramanian,P.R. (1995), and Gopal.V (1997), Seasonal variation of Hydrocarbon content and its relationship with chlorophyll in *Euphorbia hirta* and *Ricinus communis*. National Conference on Energy Crisis and Environment, Loyola Institute of Frontier Energy, Chennai, E.C.9, March 7-8, 1997, p-23.
24. Gopal.V, Prabakaran.S, and Balasubramanian.P.R (1999), Recycling of mushroom compost waste through fish. Proceedings of the 86th Indian Science Congress, Part IV: Forum on Environmental sciences, Jan 3-7, 1999, p.193, Chennai.
25. Gopal.V, Prabakaran.S, and Balasubramanian.P.R (1999), Recycling of mushroom compost waste through broiler. Proceedings of the 86th Indian Science Congress, Part IV: Forum on Environmental sciences, Jan 3-7, 1999, p.193, Chennai.
26. Babu.R, Gopal.V, Balasubramanian.P.R and Ravi.S (1999). Utilization of biomass (*Calotropis* sp.) as a fossil fuel substitute biofuel, Biomethanation. Seminar on Modern trends in plant science at AVC College, Manampandal, Mayiladuthurai, Tamil nadu, March 4-6, pp.84.

27. Renuka.R, Praba.R , Prabakaran.S, Babu.R, Gopal.V and Balasubramanian.P.R(1999), Sustainable high quality food production through integrated aquaculture contributing to biodiversity. Seminar on Modern trends in plant science at AVC College, Manampandal, Mayiladuthurai, Tamil nadu, March 4-6, pp.95.
28. Praba.R,Renuka.R,Prabakaran.S,Babu.R,Gopal.Vand Balasubramanian.P.R(1999),Supplementary feeding trials (*Cirrhinus mrigala*) sustainable aquaculture for freshwater ecosystem stability. Seminar on Modern trends in plant science at AVC College, Manampandal, Mayiladuthurai, Tamil nadu, March 4-6, pp.95-96.
29. National level conference on Advancements in Biomedical Instrumentation sponsored by University (UGC) organized by SNR Sons College, Coimbatore, 20-2. March 1999.
30. Renuka.R, Praba.R , Prabakaran.S, Babu.R, Gopal.V and Balasubramanian.P.R(1999), Hollistic approach to mushroom compost waste recycling – Dietary supplementation in integrated aquaculture system. Conference on Current Environmental Status of Coimbatore District, PSG College of Arts and Sciences, pp24-25.
31. Balasubramanian.P.R, 2005, National Conference on Medical Plant Chemistry, held at N.G.M College, Pollachi, September, 23-24.
32. Balasubramanian.P.R, 2008, AIFUCTO-26th Academic Conference-2008 on inclusive education and inclusive development at Bangalore University, Bangalore, October, 17-19.
33. Balasubramanian.P.R, 2009, Seminar cum Exhibition on Herbal Resource and Remedies, N.G.M College, Pollachi. September, 3-4.
34. Balasubramanian.P.R, 2012, AIFUCTO,XXVIII National seminar on Higher Education in 12th five year plan: Agenda, Role of teachers and teacher's movements by M.G.Kasi vidyapith affiliated college teachers association, December,15-17, held at Sampurnanand Sanskrit University, Varanasi.

Courses underwent

1. **Refresher course** in Environmental Science (Interdisciplinary) at Academic Staff College, Bharathiar University, Coimbatore (21.10.2003 – 10.11.2003).
2. **Orientation course** at Academic Staff College, Pondicherry University, Pondicherry (03.06.1998 – 30.06.1998).
3. **Refresher course** on recent trends in Biological Research and extension for the development of Rural Women at Department of Biology, Gandhigram Rural Institute – Deemed University, Gandhigram (5.09.2001-25.09.2001).
4. **Short course** on 'Recent Advances in Freshwater Aquaculture, Kausalya ganga, Bhubaneshwar (30.05.1995 – 08.06.1995).

5. **Short term course** on 'Programming in Basic' at computer centre Madurai Kamraj University, Palkalinagar (25.08.1988 – 24.09.1988).
6. **“UGC – Question Bank Workshop in Zoology – Phase III”** at department of zoology, St.Xavier's College (Autonomous), Palayamkottai from 20.01.1999 – 23.01.1999.

National Level Seminar/Conference & Workshop Participated

- On 3rd September 2009, participated in the “State level seminar cum Exhibition on Herbal Resources and Remedies”, NGM College, Pollachi.
- On 18th and 19th February 2010, participated in the National Conference on “Green Technology-Green Tech 09” NGM College, Pollachi.
- On 14th August 2014, Participated in one day State level Workshop cum Hands on Training on Vermitech'14 held at NGM College, Pollachi.
- On 10th March 2016, participated in the workshop on “In-House Workshop and Hands on Training in Plant Biotechnology” NGM College, Pollachi.
- 4th October 2016, participated one day Workshop on “SPSS – Applications in Biostatistics” conducted by PG and Research department of Botany, NGM College, Pollachi.
- On 23rd December 2016, Chaired a session in the UGC sponsored One day National Level Workshop on “Recent Trends and Advances in Bio-Compositing” organized by Department of Zoology, NGM College, Pollachi.
- On 21st February 2017, Chaired a session in the one day National Level Thematic Workshop on “Biodiversity conservation Issues and Challenges” organized by Department of Zoology, NGM College, Pollachi.
- On 24th February 2017, participated in the Workshop on “Hands-on Training in UV-Visible Spectrophotometer” organized by Department of Chemistry, NGM College, Pollachi.
- On 15th March 2017, participated in Training cum Workshop on “Basic Techniques in Botany” conducted by PG and Research department of Botany, NGM College, Pollachi.
- 07.09.17 & 08.09.17 chaired a session two days Science Academies Lecture Workshop on “Prospects and Challenges in the Animal Science” *Sponsored by IASc, INSA, NASI* organized by Zoology department. NGM College, Pollachi.