



## Curriculum vitae



### **Personal Information**

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| <b>Name</b>   | <b>Dr Muniswamy David</b>  |
| <b>Designation,</b><br><b>Department, and</b><br><b>Address</b> | Professor<br>Department of Zoology<br>Karnatak University, Pavate Nagar, Dharwad-580 003<br>Karnataka, India |
| <b>Contact Number</b>   | +91-9845709815   |
| <b>E-mail</b>   | davidkcd@gmail.com, <a href="mailto:mdavid.kud@gmail.com">mdavid.kud@gmail.com</a>                           |
| <b>Date of Birth</b>  | 09/04/1964   |

### **Educational Qualification**

M.Sc., M.Ed., M.Phil., Ph.D., Post Doc (UGC)

### **Professional Experience**

|                               |   |              |
|-------------------------------|---|--------------|
| Professor                     | Department of Zoology, Karnatak University, Dharwad                 | 2013-present |
| Associate Professor           | Department of Zoology, Karnatak University, Dharwad                 | 2012-2013    |
| Associate Professor           | Department of Zoology, Karnatak University Science College, Dharwad | 2010-2012    |
| Assistant Professor           | Department of Zoology, Karnatak University Science College, Dharwad | 1998-2010    |
| Fisheries Development Officer | Karnataka State Fisheries Department                                | 1993-1998    |

## Additional Responsibilities held

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| Director                                     | Planning, Monitoring and Evaluation Board (PMEB), Karnatak Univeristy, Dharwad          | 27 <sup>th</sup> September 2020- Present |
| Member                                       | Academic Council, Karnatak University, Dharwad  | Present                                  |
| Member                                       | Advisory Board, Internal Quality Assurance Cell, Karnatak University, Dharwad           | Present                                  |
| Member                                       | Big Purchase Committee, Karnatak University, Dharwad                                    | Present                                  |
| Chairman                                     | Department of Zoology, Karnatak University, Dharwad                                     | April 2016 -2018                         |
| Coordinator                                  | Department of Applied Genetics, Karnatak University, Dharwad                            | April 2016 -2018                         |
| Visiting Professor                           | Dept. of Environmental Science, Sri Venkateswara University, Tirupathi, Andhra Pradesh. | June 2015 to July 2017                   |
| Principle Investigator                       | DST-PURSE-PHASE-II<br>Karnatak University, Dharwad                                      | October 2016 to till date                |
| Principle Investigator                       | UGC SAP DSA -I<br>Karnatak University, Dharwad  | October 2016 to till date                |
| Nodal Officer                                | Bharath Scouts & Guides<br>Karnatak University, Dharwad                                 | June 2016 to till date                   |
| Core Committee Member                        | Innovation and Incubation Center<br>Karnatak University, Dharwad                        | April 2016 to till date                  |
| Co-Ordinator                                 | Scholarship Committee, Karnatak University, Dharwad                                     | 22.04.2014 to to date                    |
| University Affiliation Committee Member      | University Affiliated College Enquiry Committee, Karnatak University, Dharwad           | 16.12.2013 to till date                  |
| Special Officer (Controller of Examinations) | Examination Section<br>Karnatak University, Dharwad                                     | Feb 2013 to Feb 2014                     |
| Deputy Co-ordinator                          | UGC-UPE:An Integrated Approach<br>Karnatak University, Dharwad                          | May 2012 to till date                    |
| Co-Ordinator                                 | Industrial Fisheries and Fishes<br>Karnatak College, Dharwad                            | July 2002 to July 2011                   |

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|---|---|------------------------|
| Associate NCC Officer                     | Karnatak College, Dharwad   | July 2005 to July 2011 |
| Co-Ordinator                              | Central Evaluation (Science)<br>Karnatak Science College, KU, Dharwad     | 1999 to 2006           |
| Chairperson, Guard of Honour & Procession | Karnatak University, Dharwad  | 2010 to 2012           |
| Resource person                           | <b>Regularly attending the invited talks as a subject resource person</b> |                        |

## Research specialization

Environmental Biology and Molecular Toxicology  
Environmental Monitoring and Assessment  
Remediation of Xenobiotic Compounds by using microbial sources  
Molecular Microbial Ecology  
Fishery Biology (Marine and Freshwater Fisheries)  
Nanotechnology

## Membership of Academic Committees

### 1. Board of Appointments (BOA)

- Sri Venkateswara University, Tirupati, Andhra Pradesh
- Indira Gandhi National Tribal Central University, Amarakantak, Madya Pradesh
- University of Calicut, Trishur, Kerala
- Tumkur University, Tumkur, Karnataka
- Vijayanagara Sri Krishnadeveraya University, Ballari, Karnataka
- Shivaji University, Kolhapur, Maharashtra
- Kuvempu University, Shivamogga

### 2. Board of Studies (BOS), Board of Examinations (BOE) & Board of Appointment of Examiners (BOAE)

- Kuvempu University, Shankargatta, Shivamogga, Karnataka
- Rani Channamma University, Belagavi
- Tumkur University, Tumkur, Karnataka
- Gulbarga University, Gulbarga, Karnataka
- Davangere University, Davangere, Karnataka

- Akka Mahadevi University (Mahila University), Vijayapur, Karnataka, India.
- Mysore University, Mysore, Karnataka, India.
- Vijayanagara Sri Krishnadeveraya University, Bellary, Karnataka, India.
- Bharatidasan University, Tiruchirapalli, Tamilnadu
- Yogi Vemana University, Kadapa, Andhra Pradesh
- Kerala University, Thiruvananthapuramu, Kerala
- Bharathiyar University, Coimbatthoor, Tamilnadu
- Acharya Nagarjuna University, Guntur, Andhra Pradesh
- Sri Venkateswara University, Tirupati, Andhra Pradesh
- Osmania University, Hyderabad, Telangana
- Shivaji University, Kolhapur, Maharashtra
- Sri Krishnadevaraya University, Anantapuramu, Andhra Pradesh
- Indhira Gandhi National Tribal Central University, Amarkantak, Madya Pradesh
- Swami Ramananda Teerth Marathwada University, Nanded, Maharashtra
- Sardar Patel University, Gujarat
- University of Agricultural Science, GKVK, Bangalore
- Subject Expert, Karnataka Public Service Commission and Karnataka Administrative Services, Bangalore
- Subject Advisor, Union Public Service Commission, New Delhi
- Subject Expert, UGC Research Project Evaluator, University Grants Commission, New Delhi
- Nodal Officer – Bharat Scouts and Guides, Dharwad zone, Karnataka

## Research Projects handled as Principal Investigator

| Title of Project  | Duration      | Remarks   |
|---|---------------|-----------|
| Effect of gold ore mine effluents on freshwater fishes  | 2006-2007     | Completed |
| Impact of paper mill effluent on Fishery Biodiversity of River Kali   |               | Completed |
| Toxicological endpoints of sodium cyanide on freshwater fish <i>Cyprinus carpio</i> , under sublethal exposures                           | 2012-2015     | Completed |
| A low cost approach for the bioremediation of cadmium and arsenic from gold and copper ore tailings using indigenous bacterial consortium | 2013-2015     | Completed |
| UGC-UPE-FAR-I   | 2013-to date  | Ongoing   |
| DST-PURSE-PHASE II  | 2016- to date | Ongoing   |
| UGC-SAP-DSA-I   | 2015- to date | Ongoing   |

## Research Paper Reviewer for International Journals

| SL. No. | Name of the Journal                                       |
|---------|---|
| 1       | African Journal of Pharmacy and Pharmacology (AJPP)       |
| 2       | African Journal of Agriculture Research (AJAR)            |
| 3       | International Journal of Pure and Applied Zoology (IJPAZ) |
| 4       | Journal of metabolomics and Systems Biology               |
| 5       | Journal of Toxicology and Environmental Health Science    |
| 6       | Pesticide Biochemistry and Physiology                     |
| 7       | Medical Practice and Review                               |
| 8       | Journal of Agriculture and Biological Science             |
| 9       | Environmental Toxicology                                  |
| 10      | Archives of Environmental Contamination and Toxicology    |
| 11      | International Journal of Environment and Pollution        |

## Research Guided

| Degree  | No. of Students  |
|---|------------------|
| Post Doctorate  | 2 (Two)          |
| Ph. D. (Awarded)  | 21 (Twenty one)  |
| Ph. D. (Pursuing)   | 8 (Eight)        |
| M. Phil. (Awarded)  | 5 (Five)         |
| Ph.D. Co-Guide  | 2 (Two)          |
| No. of Ph.D. Theses adjudicated and awarded as external referee | 72 (Seventy two) |
| M.Sc. projects guided   | 64 (Sixty four)  |

## Membership of Professional Bodies

| S. No. | Organizations   |
|--------|---|
| 1      | Life member to Down to Earth                            |
| 2      | Life member to Indian Ecological Society                |
| 3      | Journal of Ecotoxicology & Environmental Monitoring     |
| 4      | Indian Journal of Environment & Toxicology              |
| 5      | Life Member to National Environmental Science Academy   |
| 6      | Life member to Academy of Environmental Biology         |
| 7      | Life member to Association of Zoologists, India         |
| 8      | Life member to Indian Nuclear Society                   |
| 9      | Life member to Journal of Current Science               |
| 10     | Life member to Indian Science of Congress Association   |
| 11     | Life member to Indian Life Science Congress Association |

## Publications

### Research Papers

|    |   |
|----|---|
| 1. | Jarnain R. Naik and M. David (2022) Green synthesis of silver nanoparticles using <i>Caesalpinia bonducella</i> leaf extract: characterization and evaluation of <i>in vitro</i> anti-inflammatory and anti-cancer activities, Inorganic and Nano-Metal Chemistry, DOI: <a href="https://doi.org/10.1080/24701556.2021.2025093">10.1080/24701556.2021.2025093</a> . |
| 2. | Zabin Begum Khoje, Shyam kumarVootla & Muniswamy David (2022) Brain DNA damage analysis in pesticide exposed wistar albino rats ( <i>Rattus norvegicus</i> ): a chemometric approach, Journal of Biomolecular Structure and Dynamics, DOI: <a href="https://doi.org/10.1080/07391102.2022.2029566">10.1080/07391102.2022.2029566</a>                                |
| 3. | S. B. Neglur, M. David and R. D. Sanakal (2021) Studies on Fenaxoprop-p-ethyl induced antioxidant response in <i>Cyprinus carpio</i> L. Research Journal of Agricultural Sciences; 12: 2185-2192.   |
| 4. | Srinivas B. Neglur and M. David (2021) Investigation of acute toxicity and the effect of Fenaxoprop-p-ethyl herbicide on the behavior and respiratory dysfunction of the common carp ( <i>Cyprinus carpio</i> L.). Indian Journal of Natural Sciences; 12(69): 83-93.   |
| 5. | Srinivas B Neglur, R D Sanakal, M David, Lokeshkumar P (2021) Studies on haematological and histopathological alterations induced by sublethal concentration of fenoxaprop-p-ethyl on freshwater fish <i>Cyprinus carpio</i> . Exploratory animal and medical research; 11(1): 55-66.   |

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| 6.  | Suraj S. Dabire, M. David (2021) Potential of <i>Gloriosa superba</i> extract as a novel oral contraceptive for males: <i>in vivo</i> study on Wistar albino rats. Karnatak University Journal of Science, 52: 91-99.  |
| 7.  | Jarnain R. Naik, M. David (2021) Biosynthesis of Nano-silver using <i>Withania coagulans</i> and analysis of physical and therapeutic properties. Karnatak University Journal of Science, 52: 50-63.   |
| 8.  | Lokeshkumar P., M. David (2021) Ameliorative effect of <i>Cissus quadrangularis</i> extract on carbosulfan induced splenic damage and hematological alterations in male albino rats ( <i>Rattus norvegicus</i> ). Karnatak University Journal of Science, 52: 32-43. |
| 9.  | Pattar R. M., M. David (2021) Studies on triazophos induced oxidative stress and genotoxicity in freshwater fish <i>Cyprinus carpio</i> following sublethal exposures. Veterinarski arhiv.   |
| 10. | Vidya R. Naik and M. David (2020). Toxic effect of carbohydrate metabolism changes on carp ( <i>Cirrhinus mrigala</i> ) exposed to deltamethrin (synthetic pyrethroid). International Journal of Fisheries and Aquatic Studies, 8(3): 98-105.                        |
| 11. | M. David, Lokeshkumar P., and Suraj S. Dabire (2020). Covid-19 (coronavirus): a global emergency outbreak and its implications in India. International Journal of Zoology and Applied Biosciences, 5(2): 89-98.  |
| 12. | Srinivas B. Neglur, R. D. Sanakal, M. David (2020). Studies on toxicological endpoints of fenoxaprop-p-ethyl on behavioural changes in freshwater exotic carp <i>Cyprinus carpio</i> (Linnaeus). Journal of Advanced Scientific Research; 11(3): 1-7.                |
| 13. | Pattar R. M. and David M. (2019). Studies on Acute and Behavioural toxicity of triazophos on freshwater fish <i>Cyprinus carpio</i> . Indian Journal of Applied Research. 9(7), 2249-555x  |
| 14. | R. M. Kartheek, M. David, G. P. Manjunath, P. Lokeshkumar, D. Mahantesh (2019). Assessment of malathion induced toxicity in <i>Dattaphrynus melanostictus</i> tadpoles: a biochemical investigation. International Journal of Pharmacognosy; 6(6): 216-223.          |
| 15. | M. David, R. M. Kartheek and G. P. Manjunath (2018). Acute and sublethal toxicity of chlorpyrifos on developmental stages of <i>Dattaphrynus melanostictus</i> . Journal of Applied Pharmaceutical Science. 8(6): 87-93.   |
| 16. | David M., Manjunath G. P., Kartheek R. M. (2018). Ameliorative Effect of <i>Mentha spicata</i> on dichlorvos-induced oxidative stress in the rat brain. Saudi Journal of Medical and Pharmaceutical Sciences. 4(4); 468-476.   |
| 17. | Kartheek R. M., David M. (2018). Assessment of fipronil toxicity on Wistar rats: a   |

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|     | hepatotoxic perspective. Toxicology reports. 5, 448-456.  |
| 18. | Zabin S. B., Kartheek R. M. and David M. (2018). Studies on effect of fipronil on behavioral aspects and protein metabolism of freshwater fish <i>Oreochromis mossambicus</i> . Indian Journal of Aquaculture and Fisheries Science. 6(3), 221-226.                             |
| 19. | Gururaja K., David M. (2018). Bio-nanofabrication and characterization of gold nanoparticles using <i>Tabernaemontana heyneana</i> leaf extract. International Research Journal of Nanoscience and Nanotechnology. 2; 17-23   |
| 20. | Gururaja K., David M. (2018). Optimization of green synthesis of silver nanoparticles from leaf extracts of <i>Tabernaemontana heyneana</i> and evaluation of their catalytic activity on reduction of methylene blue. Haya: The Saudi Journal of Life Sciences. 3; 248-254.    |
| 21. | Shrinivas S. Jadhav, M. David (2017). Effect of flubendiamide on morphology, avoidance behaviour and acetylcholinesterase activity in earthworm <i>Eudrilus eugeniae</i> . International Journal of Pharmacy and Pharmaceutical Sciences, 9: 233-238.                           |
| 22. | Harish E. R., David M. (2017) Physico-chemical characterization and heavy metal persistence of abandoned gold mine ore tailing of Kennedy line dump, Kolar gold field, Kolar, Karnataka. International Journal of Environmental Science. 7(5):50-59. <b>PAPER NOT PUBLISHED</b> |
| 23. | Kartheek R. M., David M. (2017). Modulations in haematological aspects of Wistar rats exposed to sublethal doses of fipronil under subchronic duration. Journal of Pharmaceutical and Biological Sciences. 5; 177-194.  |
| 24. | Harish E. R., David M. (2017). Spatial distribution of heavy metals around the gold mine of Hatti, Karnataka State, India. Landscape and Environment. 11(4); 80-88  |
| 25. | Kartheek R. M., David M. (2017). Assessment of renal toxicity in rats exposed to commercial formulations of fipronil. International journal of pharmaceutical, chemical and biological sciences. 7(3):296-303.  |
| 26. | Kartheek R. M., David M. (2016). Fipronil induced modulations in biochemical and histopathological aspects of male Wistar albino rat: a sub-chronic study. World Journal of Environmental Biosciences. 5(2): 26-32.   |
| 27. | Shivanoor S. M., David M. (2016). Reversal of deltamethrin-induced oxidative damage in rat neural tissues by turmeric-diet: Fourier transform-infrared and biochemical investigation. Journal of Basic and Applied Zoology. 77:56-58.   |
| 28. | M. David, Srinivas Jadhav, Kartheek Malwade (2016). Biochemical modulations in <i>Duttaphrynus melanostictus</i> tadpole, following exposure to commercial formulation of cypermethrin: an overlooked impact of extensive cypermethrin use. Journal of Applied                  |



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|     | Biology and Biotechnology. 4(6):32-37.  |
| 29. | Shivanoor S. M. and David M. (2016). Fourier transform infrared (FT-IR) study on cyanide induced biochemical and structural changes in rat sperm. Toxicology Reports. 2:1347-1356.  |
| 30. | David M., Gururaja K. (2016). Spectroscopic signature antibacterial and anticancer properties of <i>Calotropis gigantea</i> sp. International Journal of Pharmaceutical Sciences and Research. 7(4): 1686-1693.                                   |
| 31. | Shrinivas J., David M. (2016). Oxidative stress as a biomarker of flubendiamide toxicity in two soil bacteria isolated from cultivated lands. International Journal of Research in Pure and Applied Microbiology. 2(1): 27-32.                    |
| 32. | Umme Habeeba, David M. (2016). Studies on acute and behavioral toxicity of $\lambda$ -cyhalothrin on freshwater fish <i>Cyprinus carpio</i> . International Journal of Toxicology and Applied Pharmacology. 6(1): 1-6.                            |
| 33. | Shrinivas Jadhav and M. David (2016). Biodegradation of Flubendimide by newly isolated <i>Chryseobacterium</i> sp. Strain SSJ1. 3Biotech. 6:31.   |
| 34. | M. David, P. Muralikrishna and J. Sangeetha (2016). Elucidation of impact of heavy metal pollution on soil bacterial growth and extracellular polymeric substances flexibility. 3Biotech. 6:172.  |
| 35. | M. David and R. M. Kartheek (2015). Malathion acute toxicity in tadpoles of <i>Duttaphrynus melanostictus</i> ; morphological and behavioral study. The Journal of Basic and Applied Zoology. 72; 1-7.  |
| 36. | Shrinivas S. J. and David M. (2015). Modulatory impact of flubendiamide on enzyme activities in tropical black and red agriculture soils of Dharwad (North Karnataka), India. International Journal of Agricultural and Food Science. 5(2): 43-49 |
| 37. | M. David and R. M. Kartheek (2015). In vivo studies on hepato-renal impairments in freshwater fish <i>Cyprinus carpio</i> following exposure to sublethal concentrations of sodium cyanide. Environmental Science & Pollution Research.           |
| 38. | M. David and R. M. Kartheek (2015). Histopathological alterations in spleen of freshwater fish <i>Cyprinus carpio</i> exposed to sublethal concentration of sodium cyanide. Open Veterinary Journal. 5(1): 1-5                                    |
| 39. | M. David and Gururaja K. (2015). Strectographic analysis and <i>in-vitro</i> studies of antibacterial, anticancer activity of aqueous ethanolic fruit extract of <i>Carissa carandas</i> . L. Journal of Advance Scientific Research. 6(3): 10-13 |
| 40. | E. R. Harish and M. David (2015) Assessment of potentially toxic cyanide from the gold and copper mine ore tailings of Karnataka, India. The International Journal of Science and Technology, 3(7); 171-179.                                      |

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| 41. | David M., Sangeetha J., Harish E. R., Shrinivas J. and Naik V. R. (2015) Effects of deltamethrin on haematological indices of Indian major carp, <i>Cirrhinus mrigala</i> (Hamilton). International Journal of Pure and applied Zoology. 3(1); 37-43.  |
| 42. | David M., Sangeetha J., Harish E. R. (2015) Sodium cyanide induced alteration in the whole animal oxygen consumption and behavioural pattern of freshwater fish <i>Labeo rohita</i> . Journal of Environmental Biology. 36(2); 405-408.  |
| 43. | S. M. Shivanoor, M. David (2014) Subchronic cyanide toxicity on male reproductive system of albino rat. Toxicological Research. 3, 1-8.  |
| 44. | S. M. Shivanoor, M. David (2014) Protective role of turmeric against deltamethrin induced renal oxidative damage in rats. Biomedicine and Preventive Nutrition.  |
| 45. | S. M. Shivanoor, M. David (2014). Toxic potentials of sodium cyanide in rats upon subchronic exposure. International Journal of Toxicology and Applied Pharmacology. 4(3): 51-58.  |
| 46. | M. David and R. M. Kartheek (2014). Sodium cyanide induced biochemical and histopathological changes in freshwater fish <i>Cyprinus carpio</i> under sublethal exposure. International Journal of Toxicology and Applied Pharmacology, 4(4): 64-69.  |
| 47. | M. David and R. M. Kartheek (2014). Biochemical changes in liver of freshwater fish <i>Cyprinus carpio</i> exposed to sublethal concentration of sodium cyanide. Indo-American Journal of Pharmaceutical Research. 4(9): 3669-3675.  |
| 48. | M. David and R. M. Kartheek (2014). Sodium cyanide induced histopathological changes in kidney of freshwater fish <i>Cyprinus carpio</i> under sublethal exposure. International Journal of Pharmaceutical, Chemical and Biological Sciences. 4(3), 634-639.   |
| 49. | M. David, J. Sangeetha, E. R. Haish, J. Shrinivas, V. R. Naik (2014). Alteration in the levels of ACh and associated AChE in the tissues of freshwater fish <i>Cirrhinus mrigala</i> exposed to deltamethrin. International Journal of Pharmacy and Biological Sciences Archives. 4(6), 1237-1241.                   |
| 50. | M. David, J. Sangeetha, J. Shrinivas, E. R. Haish, V. R. Naik (2014). Alterations in the levels of ions in tissues of freshwater fish <i>Cirrhinus mrigala</i> exposed to deltamethrin. International Journal of Pharmacy and Biological Sciences Archives. 5(1), 36-40.   |
| 51. | M. David, J. Sangeetha, E. R. Haish, J. Shrinivas, V. R. Naik (2014). Deltamethrin induced alteration in $\text{Na}^+\text{-K}^+$ , $\text{Mg}^{2+}$ , $\text{Ca}^{2+}$ associated ATPases activity in the freshwater fish <i>Cirrhinus mrigala</i> . International Journal of Pure and Applied Zoology. 2: 175-181. |
| 52. | L. D. Rajesh, M. David (2014). Hepatotoxic potentials of profenofos on Wistar albino rats: a histopathological study. International Journal of Pharmacy and Biological Sciences Archives. 5(1), 70-75.   |

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| 53. | M. Muthukumaran, A. Vijaya Bhaskara Rao, and M. David (2014). Report of <i>Dryocalamus nymphea</i> (Daudin, 1803) from Pondicherry University campus, Puducherry and conservation. International Journal of Pure and Applied Zoology, 2(4); 360-364.   |
| 54. | VK Patil, <b>M David</b> , (2013) Oxidative stress in freshwater fish, <i>Labeo rohita</i> as a biomarker of Malathion exposure. Environmental monitoring and assessment, 185:10191–10199  |
| 55. | SR Marigoudar, RN Ahmed, <b>M David</b> , (2013) Ultrastructural responses and oxidative stress induced by Cypermethrin in the liver of <i>Labeo rohita</i> . Chemistry and Ecology 29 , (4), 296-308  |
| 56. | RA Maniyar, RN Ahmed, <b>M David</b> (2012) Hematological responses of <i>Cyprinus carpio</i> L. exposed to sub-lethal concentrations of Monocrotophos. Elixir Aquaculture 43 (2012) 6946-6951   |
| 57. | <b>M David</b> , SR Marigoudar, VK Patil, R Halappa, (2012) Behavioral, morphological deformities and biomarkers of oxidative damage as indicators of sublethal Cypermethrin intoxication on the tadpoles of <i>Duttaphrynus melanostictus</i> , (Schneider, 1799). Pesticide Biochemistry and Physiology 103. (2), 127-134. |
| 58. | Sameer G. Chebbi, <b>M David</b> , (2011) Modulation in the protein metabolism under sublethal concentration of Quinalphos intoxication in the freshwater common carp, <i>Cyprinus carpio</i> (Linnaeus, 1758). International Journal of Pharmaceutical & Biological Archive 2, (4).   |
| 59. | Shivaraj, <b>M. David</b> and K. Ravi. (2011) Spermatotoxicity evaluation of Deltamethrin 1% + Chlorpyrifos 35% EC by oral gavage in wistar rats. International Journal of Pharma and Bio Sciences. 2(4); 261-268.   |
| 60. | Krishnamurthy G and <b>David M</b> (2011) Effect of dicofol on toxicity and oxygen consumption of the freshwater fish, <i>Labeo rohita</i> . Journal of ecotoxicology & environmental monitoring., 21(3):257-262.  |
| 61. | VK Patil, <b>M David</b> (2010) Behavioral and morphological endpoints: as an early response to sublethal malathion intoxication in the freshwater fish, <i>Labeo rohita</i> . Drug and Chemical Toxicology 33 , (2), 160-165  |
| 62. | MS Prashanth, <b>M David</b> , (2010) Impact of Cypermethrin on Na <sup>+</sup> –K <sup>+</sup> , Ca <sup>2+</sup> and Mg <sup>2+</sup> ATPases in Indian Major Carp, <i>Cirrhinus mrigala</i> , (Hamilton) Bulletin of Environmental Contamination and Toxicology. 84 , (1), 80-84.   |
| 63. | <b>M David</b> , H Ramesh, VK Patil, SR Marigoudar, SG Chebbi (2010) Sodium Cyanide-induced modulations in the activities of some oxidative enzymes and metabolites in the fingerlings of <i>Cyprinus carpio</i> (Linnaeus). Toxicological and Environ Chemistry. 92 , (10), 1841-1849                                       |
| 64. | SG Chebbi, <b>M David</b> , (2010) Quinalphos Induced Alterations in the Levels of Ions and Whole Animal Oxygen Consumption of Freshwater Fish, <i>Cyprinus Carpio</i> , (Linnaeus,  |

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|     | 1758). Journal of Veterinar Science Technology. 1: 101. doi: 10.4172/2157-7579.1000102  |
| 65. | <b>M David</b> , Shivakumar B Haragi, Vineetkumar K Patil, Ramesh Halappa, Jagadeesh B Chittargi, Shambangouda R Marigoudar, Sameer G Chebbi (2010) Assessment of Sodium Cyanide Toxicity on fresh water Teleosts. Recent Research in Science and Technology, 2(2): 20-24.          |
| 66. | V Munivswamy, <b>M David</b> (2010) <i>In vivo</i> concentration response on the effect of Cadmium on the activity of ATPases in the functionally different tissues of Indian major carp, <i>Labeo rohita</i> . J. Ecotoxicol. Environ. Monit. 20 (1), 1-10.                        |
| 67. | G Krishnamurthy, M David (2010) Impact of Dicofol on toxicity and behavioural responses of the freshwater fish <i>Labeo rohita</i> . Journal of Ecobiology. 26(3) 293-299   |
| 68. | <b>M David</b> , RA Maniyar, RN Ahmed, (2010) Monocrotophos: toxicity evaluation and respiratory responses of <i>Cyprinus carpio</i> (Linnaeus) Recent Research in Science and Technology. 3(1): 51-54  |
| 69. | Chebbi SG, David M (2010) Respiratory responses and behavioural anomalies of the carp <i>Cyprinus carpio</i> under quinalphos intoxication in sublethal doses. Science Asia 36:12-17. Doi.10.2306/scienceasia1513-1874.2010.36.012.   |
| 70. | R Halappa, <b>M David</b> (2009) Behavioral Responses of the Freshwater Fish, <i>Cyprinus carpio</i> (Linnaeus) Following Sublethal Exposure to Chlorpyrifos. Turkish Journal of Fisheries and Aquatic Sciences 9 , (2), 233-238  |
| 71. | SR Marigoudar, RN Ahmed, <b>M David</b> (2009) Cypermethrin induced respiratory and behavioural responses of the freshwater teleost, <i>Labeo rohita</i> , (Hamilton) Veterinarski Arhiv 79 , (6), 583-590.   |
| 72. | SR Marigoudar, RN Ahmed, <b>M David</b> (2009) Impact of Cypermethrin on behavioural responses in the freshwater teleost, <i>Labeo rohita</i> , (Hamilton). World Journal of Zoology 4 , (1), 19-23.  |
| 73. | SR Marigoudar, RN Ahmed, <b>M David</b> (2009) Cypermethrin induced: in vivo inhibition of the acetylcholinesterase activity in functionally different tissues of the freshwater teleost, <i>Labeo rohita</i> , (Hamilton). Toxicological and Environ Chemistry 91 , (6), 1175-1182 |
| 74. | Vineetkumar K Patil, <b>M David</b> (2009) Hepatotoxic potential of Malathion in the freshwater teleost, <i>Labeo rohita</i> , (Hamilton). Veterinarski Arhiv 79 , (2), 179-188   |
| 75. | H Ramesh, <b>M David</b> (2009) Respiratory performance and behavioral responses of the freshwater fish, <i>Cyprinus carpio</i> (Linnaeus) under sublethal exposure to Chlorpyrifos. Journal of Basic and Clinical Physiology and Pharmacology 20 , (2), 127-140                    |
| 76. | SG Chebbi, <b>M David</b> (2009) Neurobehavioral responses of the freshwater teleost, <i>Cyprinus carpio</i> (Linnaeus.) under Quinalphos intoxication. Biotechnology in Animal Husbandry 25,   |

|     |  |
|-----|--|
|     | (3-4), 241-249.  |
| 77. | <b>M David</b> , VK Patil, SG Chebbi, SR Marigoudar, JB Chittaragi, R Halappa , (2009) Gas-liquid chromatography for Fenvalerate residue analysis: In vivo alterations in the acetylcholinesterase activity and acetylcholine in different tissues of the fish, <i>Labeo rohita</i> , (Hamilton) Toxicology Mechanisms and Methods 19 , (6-7), 410-415 |
| 78. | <b>M David</b> , H Ramesh, SP Deshpande, SG Chebbi, G Krishnamurth (2009) Respiratory distress and behavioral changes induced by Sodium Cyanide in the fresh water teleost, <i>Cyprinus carpio</i> , (Linnaeus) Journal of basic and clinical physiology and pharmacology 20 , (1), 55-66  |
| 79. | SG Chebbi, <b>M David</b> , (2009) Behavioural and respiratory responses of the freshwater fish, <i>Cyprinus carpio</i> (Linnaeus) under Quinalphos intoxication in sublethal tenures. Online. Journal of Veterinary Research 13 , (1), 15-25.   |
| 80. | R Halappa, <b>M David</b> , (2009) In Vivo Inhibition of Acetylcholinesterase Activity in Functionally Different Tissues of the Freshwater Fish, <i>Cyprinus carpio</i> , Under Chlorpyrifos Exposure. Drug metabolism and drug interactions 24 , (2-4), 123-136   |
| 81. | V Munaswamy, <b>M David</b> (2009) Static renewal bioassay test of Cadmium on the freshwater fish, <i>Labeo rohita</i> . Journal of Ecobiology 25 , (3), 221-228   |
| 82. | HB Shivakumar, <b>M David</b> (2008) Effect of Dimethoate on toxicity and oxygen consumption of the freshwater teleost, <i>Cyprinus carpio</i> . Journal of Ecotoxicology. Environ. Monitor 18, 319-324.   |
| 83. | K. Kotresha, T.C. Taranath, <b>M. David</b> (2008) Plant diversity and ecology of river varahi basin and its environments. Forest Biodiversity, 1, 126-1390  |
| 84. | <b>M David</b> , V Munaswamy, R Halappa, SR Marigoudar, (2008) Impact of Sodium Cyanide on catalase activity in the freshwater exotic carp, <i>Cyprinus carpio</i> , (Linnaeus) Pesticide Biochemistry and Physiology 92 , (1), 15-18  |
| 85. | VK Patil, <b>M David</b> , (2008) Behavioural and respiratory dysfunction in the freshwater fish, <i>Labeo rohita</i> (Hamilton) under Malathion intoxication. Journal of Basic and Clinical Physiology and Pharmacology 19 , (2), 167-176   |
| 86. | VK Patill, <b>M David</b> , (2008) Behaviour and Respiratory Dysfunction as an Index of Malathion Toxicity in the Freshwater Fish, <i>Labeo rohita</i> (Hamilton). Turkish Journal of Fisheries and Aquatic Sciences 8 , (2), 233-237  |
| 87. | R Shivakumar, <b>M David</b> (2007) Toxicity of Endosulfan and its impact on the rate of oxygen uptake in the freshwater fish, <i>Catla catla</i> . Journal of Ecobiology 20 , (1), 79   |
| 88. | HB Shivakumar, <b>M David</b> (2007) Static renewal bioassay test of Dimethoate on the freshwater fish <i>Cyprinus carpio</i> . Environmental Protection, 175-178.   |

|      |   |
|------|---|
| 89.  | <b>M David</b> , HB Shivakumar, H Ramesh, SR Marigoudar, VR Naik, (2007) Hepatotoxic potential of Malathion in the freshwater teleost, <i>Cirrhinus mrigala</i> , (Hamilton). Journal of Basic and Clinical Physiology and Pharmacology 18 , (4), 307-314                               |
| 90.  | R Shivakumar, SB Mushigeri, <b>M David</b> (2006) Toxicity of endosulfan, cypermethrin and fenvalerate to freshwater fish. <i>Cyprinus carpio</i> . Journal of Ecobiology 19 , (4), 313   |
| 91.  | R Shivakumar, <b>M David</b> (2006) Influence of Endosulfan on the Behaviour Response of Freshwater Fish, <i>Catla Catla</i> . Pollution Research 25 , (2), 375   |
| 92.  | H Ramesh, <b>M David</b> (2006), Behavioural and respiratory responses of freshwater exotic carp, <i>Cyprinus carpio</i> (Linn.) exposed to chloropyrifos. Indian J. Environ. Toxicol. 16(2): 55-59   |
| 93.  | MS Prashanth, <b>M David</b> , (2006) Changes in nitrogen metabolism of the freshwater fish <i>Cirrhinus mrigala</i> following exposure to Cypermethrin. Journal of Basic and Clinical Physiology and Pharmacology 17 , (1), 63-70.   |
| 94.  | SB Mushigeri, <b>M David</b> , (2006) Gas-liquid chromatography for Fenvalerate residue analysis: alterations in the ionic concentration and associated adenosine triphosphatases in fish, <i>Cirrhinus mrigala</i> , (Hamilton). Toxicological and Environ Chemistry 88 , (3), 469-478 |
| 95.  | SB Mushigeri, <b>M David</b> , (2005) Fenvalerate induced changes in the Ach and associated AchE activity in different tissues of fish <i>Cirrhinus mrigala</i> , (Hamilton) under lethal and sub-lethal exposure period. Environmental Toxicology and Pharmacology 20 , (1), 65-72.    |
| 96.  | MS Prashanth, <b>M David</b> , SG Mathed, (2005) Behavioural changes in freshwater fish, <i>Cirrhinus mrigala</i> , (Hamilton) exposed to Cypermethrin. Journal of environmental biology, Jan;26(1):141-4   |
| 97.  | <b>M David</b> , RS Kumar, SB Mushigeri, RC Kuri, (2005) Blood glucose and glycogen levels as indicators of stress in the freshwater fish, <i>Labeo rohita</i> under Fenvalerate intoxication Journal of Ecotoxicology & Environmental Monitoring 15 , (1), 1-5                         |
| 98.  | R Shivakumar, RC Kuri, SB Mushigeri, <b>M David</b> , (2005) Effect of Endosulfan to freshwater fish, <i>Ctenopharyngodon idellus</i> . Journal of Ecotoxicology & Environmental Monitoring 15 , (2), 113-116   |
| 99.  | <b>M David</b> , H Ramesh, HB Shivakumar, (2005) Evaluation of Sodium Cyanide toxicity on the freshwater fish, <i>Cyprinus carpio</i> (Linn). Indian Journal of Environment and Toxicology 15 , (2), 36   |
| 100. | <b>M David</b> , SB Mushigeri, R Shivakumar, GH Philip , (2004) Response of <i>Cyprinus carpio</i> , (Linn) to sublethal concentration of Cypermethrin: alterations in protein metabolic profiles. Chemosphere 56 , (4), 347-352.   |
| 101. | SB Mushigeri, <b>M David</b> , (2004) Accumulation of fenvalerate and related changes in lactate  |

|      |  |
|------|--|
|      | and succinate dehydrogenases activity in functionally different tissues of the freshwater fish, <i>Cirrhinus mrigala</i> , (Hamilton). Journal of Basic and Clinical Physiology and Pharmacology 15 , (3-4), 143-152.  |
| 102. | R Shivakumar, <b>M David</b> , (2004) Toxicity of Endosulfan to the freshwater fish, <i>Cyprinus carpio</i> . Indian Journal of Ecology 31 , (1), 27-29  |
| 103. | SB Mushigeri, <b>M David</b> , (2004) Toxicity of synthetic Pyrethroid insecticide Fenvalerate to the freshwater fish <i>Cirrhinus mrigala</i> . Journal of Ecobiology 16 , (3), 169-174.  |
| 104. | R Shivakumar, <b>M David</b> , (2004) Endosulfan induced behavioural changes in the freshwater fish, <i>Cyprinus carpio</i> . Journal of Ecotoxicology & Environmental Monitoring 14 , (1), 65-69  |
| 105. | <b>M David</b> , S B Mushigeri, R C Kuri, R Shivakumar, S G Mathad (2004) Impact of Fenvalerate on the behavioural responses of the freshwater fish, <i>Labeo rohita</i> (Hamilton). Eco. Env. & Cons. 10(3): 369-372  |
| 106. | SB Mushigiri, M David (2004) Residue analysis of Fenvalerate by gas liquid chromatography (GLC) in functionally different tissue of freshwater fish, <i>Cirrhinus mrigal</i> (Hamilton). Aquaculture 5(2): 207-213   |
| 107. | <b>M David</b> , GH Philip, (2004) Accumulation of Fenvalerate and induced changes in Lactate and Succinate dehydrogenases activity in selected tissues of freshwater fish, <i>Labeo rohita</i> , (Hamilton) Journal of Ecophysiology and Occupational Health 5 , (3/4), 207 |
| 108. | HB Shivakumar, <b>M David</b> , (2004) Dimethoate induced alterations in the levels of ions and whole animal oxygen consumption of freshwater fish, <i>Cyprinus carpio</i> . (Linn) Journal of Ecophysiology and Occupational Health 5 , (3/4), 217                          |
| 109. | <b>M David</b> , HB Shivakumar, R Shivakumar, SB Mushigeri, BH Ganti (2003) Toxicity evaluation of Cypermethrin and its effect on oxygen consumption of the freshwater fish, <i>Oreochromis mossambica</i> Indian J. Environ. Toxicol 13 , (2), 99-102, 2003                 |
| 110. | <b>M David</b> , S.B. Mushigeri, GH Philip (2003) Alterations in the levels of ions in tissues of freshwater fish <i>Labeo rohita</i> exposed to Fenvalerate. Pollution Research 22 , (3), 359-363,  |
| 111. | S.B. Mushigeri, <b>M David</b> (2003) Assessment of Fenvalerate toxicity on oxygen consumption and ammonia excretion in the freshwater fish, <i>Cirrhinus mrigala</i> . Journal of Ecotoxicology & Environmental Monitoring 13 , (3), 191-195,                               |
| 112. | <b>M David</b> , SB Mushigeri, MS Prashanth (2003) Nickel induced changes on some aspects of protein metabolism in the tissues of <i>Pila globosa</i> . Journal of Environmental Biology, 24(1), 69-75.  |
| 113. | <b>M David</b> , SB Mushigeri, MS Prashant, SG Mathad (2003) Role of Phosphatases During Transport and Energy Metabolism in Freshwater Fish, <i>Cyprinus carpio</i> Exposed to   |

|      |   |
|------|---|
|      | Cpermethrin. Pollution Research 22 , (2), 277-281.  |
| 114. | MS Prashanth, <b>M David</b> , RC Kuri (2003) Effects of Cypermethrin on toxicity and oxygen consumption in the freshwater fish, <i>Cirrhinus mrigala</i> . Journal of Ecotoxicology & Environmental Monitoring 13 , (4), 271-277,  |
| 115. | <b>M David</b> , SB Mushigeri, MS Prashant, SG Mathad (2003) Hepato toxicity of Malathion on the protein metabolism in <i>Catla catla</i> . Advances in Biosciences 22 , (1), 115-120.  |
| 116. | SB Mushigeri, R Shivakumar, <b>M David</b> (2003) Impact of paper mill effluent on the aquatic ecosystem and fishery potential of river kali. Ecology Environment and Conservation 9, 177-179.  |
| 117. | <b>M David</b> , SB Mushigeri, GH Philip (2003) Changes in oxidative metabolism in selected tissues of <i>Labeo rohita</i> exposed to Fenvalerate toxicity. Geobios 30 , 2(3), 129-132.   |
| 118. | <b>M David</b> , SB Mushigeri, GH Philip (2003) Alterations in G-6-PDH Activity in Freshwater Fish, <i>Labeo rohita</i> Under Fenvalerate Stress. Ecology Environment and Conservation 9, 127-129.  |
| 119. | <b>M David</b> , SB Mushigeri, MS Prahsanth (2001). Toxicity of Fenvalerate to the freshwater fish, <i>Labeo rohita</i> , (Hamilton) Geobios 29 , (1), 25-28.   |
|      | <b>Publications in Conference Proceedings</b>   |
| 120. | Harish ER, <b>David M</b> and Kartheek RM (2015). Studies of haematological and histopathological alteration induced by environmental relevant concentration of Chlorpyrifos on indigenous hybrid fowl Giriraja. In: Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College, Haveri, Karnataka, India 84-89. |
| 121. | <b>David M</b> and Harish ER (2015). Cyanide in Mining Soil: Microbial Diversity and Remediation, Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 50-66.   |
| 122. | <b>M David</b> , Shrinivas J and Harish ER (2015). In vivo studies on fenvalerate induced changes in protein metabolism of fresh water fish, <i>Tilapia mossambica</i> . Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.   |
| 123. | <b>David M</b> and Kartheek RM (2015) In vivo studies on toxic potentials of Malathion on ions and associated ATPases in Indian major carp <i>Labeo rohita</i> . Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.   |
| 124. | Rajesh LD and <b>David M</b> (2015) Studies on DNA damage in hepatocytes of female wistar   |



|      |  |
|------|--|
|      | albino rats following exposure to commercial grade profenofos: An in vivo study. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.  |
| 125. | Sangeetha J and <b>David M</b> (2015) Microbial remediation of sulfur from the sump water effluents of Nyveli coal mines 1 & 1A. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.  |
| 126. | <b>David M</b> , Murali Krishna P and Sangeetha J(2015) Spectroscopic characterisation of Arsenic remediation of heavy metal contaminated soil by using isolated bacteria, Bacillus spp. strain MDPMK-02. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.   |
| 127. | Kartheek RM and <b>David M</b> (2015) Profenofos induced changes in cholinergic activities of freshwater edible fish Cyprinus carpio under sublethal exposure. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.  |
| 128. | Shrinivas J and <b>David M</b> (2015) Alterations in the levels of soil fertility enzymes in Dharwad district as a biomarker to flubendiamide stress. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.   |
| 129. | Shrinivas Jadhav and <b>M David</b> (2015) Effect of temperature and additional carbon source on biodegradation of flubendiamide by Chryseobacterium stain SSJ1. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112.  |
| 130. | <b>Muniswamy David</b> , Murali Krishna P and Manjunath Nimbikai (2015) In vitro Studies on evaluation of Cadmium toxicity on Soil Bacterial growth and its Extracellular Polymeric Substances flexibility. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-112. |
| 131. | <b>M David</b> , Shrinivas J and Kartheek RM (2015) Biochemical responses in Dattaphrynus melanostictus exposed to sublethal concentration of Cypermethrin: Alterations in protein metabolic profiles. Proceedings of UGC sponsored National Seminar on “Recent trends in Environmental Waste Management” held in KLE Society’s Gudleppa Hallikeri College Haveri, Karnataka, India 99-11.       |

## Book Chapters

### International Publishers

|      |  |
|------|--|
| 132. | Thangadurai D., Suraj S. Dabire, Sangeetha J., <b>M. David</b> et al. (2021) Greener Composites from Plant Fibers: Preparation, Structure, and Properties. In: Kharissova O.V., Martínez L.M.T., Kharisov B.I. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-11155-7_21-1">https://doi.org/10.1007/978-3-030-11155-7_21-1</a> |
| 133. | Thangadurai D., Jarnain Naik, J. Sangeetha, <b>M. David</b> et al. (2021) Nanomaterials from Agrowastes: Past, Present, and the Future. In: Kharissova O.V., Martínez L.M.T., Kharisov B.I. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-11155-7_43-1">https://doi.org/10.1007/978-3-030-11155-7_43-1</a>                    |
| 134. | Thangadurai D., Ahuja V., Sangeetha J., Naik J., Hospet R., David M. et al. (2021) Mesoporous nanomaterials: properties and applications in environmental sector. In: Kharissova O.V., Martínez L.M.T., Kharisov B.I. (eds) Handbook of nanomaterials and nanocomposites for energy and environmental applications. Springer, Cham.  |
| 135. | D. Thangadurai, Lokeshkumar P., J. Sangeetha, A. R. M. Said Al-Tawaha, M. David, S. Islam, C. O. Adetunji, J. B. Adetunji (2021) Sustainable Synthesis of Greener Nanomaterials: Principles, Processes, and Products. In: Kharissova O., Martínez L., Kharisov B. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham.  |
| 136. | <b>David M.</b> , Prakash L., Sangeetha J., Naik J., Thangadurai D., Thimmappa S.C. (2020) Degradation of Plastics Using Nanomaterials. In: Kharissova O., Martínez L., Kharisov B. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-11155-7_74-1">https://doi.org/10.1007/978-3-030-11155-7_74-1</a>                            |
| 137. | Sangeetha J., <b>David M.</b> , Naik J., Thangadurai D., Dabire S. S., Thimmappa S.C. (2020) Removal of Radioactive Wastes Using Nanomaterials. In: Kharissova O., Martínez L., Kharisov B. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham.  |
| 138. | Thangadurai D., <b>David M.</b> , Dabire S. S., Sangeetha J., Prakash L. (2020) Nanotechnology and the Sustainability: Toxicological Assessments and Environmental Risks of Nanomaterials Under Climate Change. In: Kharissova O., Martínez L., Kharisov B. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and  |

|      |  |
|------|--|
|      | Environmental Applications. Springer, Cham.  |
| 139. | Sangeetha J, Thangadurai D, Ravichandra H, Prathima P, Kartheek RM, Mujeeb MA, Abhishek CM, Jogaiah S, <b>David M</b> , Thimmappa SC, Ram Prasad, Harish ER (2017) Production of bionanomaterials from agricultural wastes. In: Ram Prasad, Manoj Kumar Vivek Kumar (Ed.). Nanotechnology: An agricultural Paradigm. Springer, Singapore. 33-58.   |
| 140. | Sangeetha J, Thangadurai D, Ravichandra H, Harish ER, Prathima P, Mujeeb MA, Shrinivas J, <b>David M</b> , Abhishek CM, Thimmappa SC, Arakera SB, Ram Prasad (2017) Nanoagrotechnology for Soil Improvement, Crop Productivity and Environmental Management. In: Ram Prasad, Manoj Kumar Vivek Kumar (Ed.). Nanotechnology: An agricultural Paradigm. Springer, Singapore. 73-97.  |
| 141. | Sangeetha J, Thangadurai D, Ravichandra H, Prathima P, Gururaja K, Abhishek CM, <b>David M</b> , Shinge MR, Thimmappa SC, Ram Prasad, Harish ER (2017) Agricultural Nanotechnology: Concepts, Benefits and Risks. In: Ram Prasad, Manoj Kumar Vivek Kumar (Ed.). Nanotechnology: An agricultural Paradigm. Springer, Singapore. 1-17.  |
| 142. | Jeyabalan Sangeetha, <b>Muniswamy David</b> , Devarajan Thangadurai, Etigemane Ramappa Harish, Jadhav Shrinivas, Prathima Purushotham, and Kartheek Rajendra Malowade (2016) Environmental Impact of Pesticide Use on Microbial Communities and Soil Bioprocesses: A Physiological, Biochemical and Molecular Perspective. In: J. Sangeetha, D. Thangadurai, M. David, M.A. Abdullah (eds). Environmental Biotechnology: Biodegradation, Bioremediation, and Bioconversion of Xenobiotic for Sustainable Development. Apple Academy Press, USA pp. 67-96.  |
| 143. | Jeyabalan Sangeetha, Devarajan Thangadurai, <b>Muniswamy David</b> , Jadhav Shrinivas, Abhishek Channayya Mundaragi, Paidi Murali Krishna, Etigemane Ramappa Harish, Prathima Purushotham, and Swapna Kishor Deshpande (2016) Soil Remediation and Ecological Restoration from Heavy Metal Pollution and Radioactive Waste Materials using Fungal Genetic and Genomic Resources. In: J. Sangeetha, D. Thangadurai, M. David, M.A. Abdullah (eds). Environmental Biotechnology: Biodegradation, Bioremediation, and Bioconversion of Xenobiotic for Sustainable Development. Apple Academy Press, USA |
| 144. | Jeyabalan Sangeetha, Devarajan Thangadurai, <b>Muniswamy David</b> , Roopa T. Somanath, Abhishek C. Mundaragi, and Digambarappa P. Biradar. (2015). Environmental Genomics: The Impact of Transgenic Crops on Soil Quality, Microbial Diversity and Plant Associated Communities. In: Genomics and Proteomics; Principles, Technologies, and Application., Apple Academy Press, Canada, USA.   |
| 145. | Jeyabalan Sangeetha, Devarajan Thangadurai, <b>Muniswamy David</b> , and Jadhav Shrinivas. (2015). Molecular and Genomic Approaches for Microbial Remediation of Petroleum   |

|                            |  |
|----------------------------|--|
|                            | Contaminated Soils. In Genomics and Proteomics; Principles, Technologies, and Application. Apple Academy Press, Canada, USA.   |
| <b>National Publishers</b> |  |
| 146.                       | Sangeetha J, Prathima P, Thangadurai D, <b>David M</b> , Abhishek M, Jadhav SS (2017) Exploring Microbes from Extreme Environments for Crop Productivity and Environmental Sustainability In: Microbes for Plant Stress Management, Chapter: Exploring Microbes from Extreme Environments for Crop Productivity and Environmental Sustainability, Publisher: New India Publishing Agency, New Delhi, India, Editors: D.J. Bagyaraj, Jamaluddin, pp.1-24. |
| 147.                       | Sangeetha J, Prathima P, Thangadurai D, David M, Abhishek M, Jadhav SS (2017). In: Engineered Microbes for Remediation of Toxic Pollutants and Restoration of Contaminated Environments. New India Publishing Agency, New Delhi, India, Editors: D.J. Bagyaraj, Jamaluddin.  |
| 148.                       | <b>Muniswamy David</b> , Jeyabalan Sangeetha, Etigemane Ramappa Harish (2016) Diversity of fishes and conservation strategies for sustainable development. In: B.B. Hosetti and S. Ramakrishna (eds.) Biodeversity: Concepts and Conservation. Aavishkar Publishers and Distributors, Jaipur, India 97-113. ISBN 978-81-7910-531-3.  |
| <b>Books edited</b>        |  |
| 149.                       | Environmental Biotechnology; Biodegradation, Bioremediation, and Bioconversion of Xenobiotics for Sustainable Development, Apple Academy Press, Canada, USA 2016.  |
| 150.                       | Fundamentals of Molecular Mycology, Apple Academy Press, Canada, USA (2016)  |

## Conferences and Seminars Attended

1. Three days International Conference on Drug Discovery organized by Schrödinger at BITS-Pilani, Hyderabad from 29<sup>th</sup> February to 2<sup>nd</sup> March 2020.
2. One day National Conference on “Emerging Trends in Zoology and Biotechnology” organized by the Department of Zoology and Biotechnology, Sadguru Gadage Maharaj College, Karad, Maharashtra on 7<sup>th</sup> March 2020.
3. International Conference on Direct Digital Manufacturing and polymers organized by Dept. of Chemistry and Innovative and Incubation Centre Karnatak University, Dharwad and Centre for Rapid and Sustainable Product Development Polytechnique Institute of Leiria,

Portugal

4. Two days self-financed national conference on Ecological Imbalance- cause and Solutions (EICS-2019), organized by Dept. of Zoology, Veerashaiva College, Bellary on 21-22<sup>nd</sup> March 2019 at Bellary.
5. National Conference on “Biodiversity Issues and Conservation strategies” held during 21-22<sup>nd</sup> Dec - 2018 at Dept. of Zoology, G.C. College Ankola, Uttara Kannada, Karnataka.
6. National Conference on Biodiversity Conservation – Recent Development and strategies. Held during 16-17<sup>th</sup> Nov-2018 at Dept. of Wildlife and Management, Kuvempu University, Shivamogga, Karnataka.
7. International Conference on “Advanced Research in Life Sciences”; organized by Sadguru Gadage Maharaj College, Karad, Maharashtra; 27<sup>th</sup> & 28<sup>th</sup> March, 2018.
8. National Conference on “Recent Trends in Biotechnology- 2018” organized by Department of Chemistry and Biotechnology at Karnatak University’s Karnatak Science College, Dharwad, Karnataka on 23<sup>rd</sup> and 24<sup>th</sup> February 2018.
9. Participated and chaired the session in International Conference On Agricultural Sciences and Food Technologies for Sustainable Productivity and Nutritional Security. Organised by Society for Applied Biotechnology. Bengaluru, Karnataka, India. 25-27 August 2016.
10. Participated and Chair the session in International symposium on Biodiversity, agriculture, Environment and Forestry. Organized by Society for applied biotechnology. Ooty, Tamil nadu, India. 11-12 December, 2015.
11. Participated in National Seminar on Recent trends in Environmental Waste management. Organized by KLE’s Society. Haveri, Karnataka, India. 15-16 October, 2015.
12. Participated and Chair the session in ..... Puducherry, India. March 2015.
13. Participated in ..... Kristu Jayanti College, Bangalore, February, 2015.
14. Participated and Chair the session in the International scientific conference on Environmental Research. Organised by Eurasian academy of environmental sciences. Lumbini, Nepal. 1-3 November, 2014.
15. Participated and Chair the session in the International Conference on “Biodiversity, Bioresources and Biotechnology” organized by Society for Applied Biotechnology held at Mysore on 30-31 January 2014.
16. Participated in international conference on Environmental Management for Sustainable Development held at Department of Geography, Karnataka Science College, Dharwad on 20 and 21<sup>st</sup> December, 2013.
17. First international and third national conference on Biotechnology, Bioinformatics and Bioengineering. Society for Applied Biotechnology, 28-29 June 2013.
18. National conference on endocrinology and reproduction Society of reproduction and

endocrinology, 11-13 February 2013.

19. National Workshop on Application of Bioinformatics Tools in Biological Science, Dept. of Biotechnology and Microbiology, Karnatak University, Dharwad, 30<sup>th</sup> March 2013
20. National Workshop on Modern Biological Techniques, PG and Research Dept. of Zoology, Chikkanna Govt. Arts College, Tirupur, 22-24<sup>th</sup> Feb. 2013
21. National Conference on Biotechnology, Bioinformatics and Bioengineering, Society for Applied Biotechnology, 24-25<sup>th</sup> Feb. 2012
22. International Symposium on Harnessing Microbes for Human Health and Resource Recuperation, Dept. of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore. 7-8<sup>th</sup> Aug. 2012
23. One Day Workshop on Showcasing the Expertise: Strategic Approach to Consultancy, Karnatak University, Dharwad, 10<sup>th</sup> Nov. 2012
24. National Conference on Environmental Science and Health Hazards, Dept. of Biotechnology and Microbiology, Karnatak University, Dharwad, 19-21<sup>st</sup> Nov. 2012
25. International Conference on Sustainable Water Resources Development and Management, Dept. of Environmental Biology Shivaji University, Kolhapur, 20-21<sup>st</sup> Dec. 2012.
26. National Conference on Biodiversity and -Biotechnology for Sustainable Development, P. G. Department of Studies in botany, Karnatak university, Dharwad, 21-22 March 2011.
27. International conference on biodiversity and aquatic toxicology, Dept. of Zoology and Aquaculture, Acharya Nagarjuna University, Nagarjunanagar, 12-14 Feb, 2011.
28. National Workshop on Seri-Bioinformatics, Dept. of Sericulture Sri Krishnadevaraya University, Anantapur, 30-31<sup>st</sup> March 2010.
29. International Conference on Environmental Pollution , Water Conservation and Health, Department of Zoology, Bangalore University, Bangalore, 29-31 July 2010.
30. International workshop on Applications of Nanotechnology to Energy, Environment and Biotechnology (Nano-EEB), St Aloysius College (Autonomous), Mangalore, 14-16<sup>th</sup> December 2010.
31. International Conference on Darwinism- A Sesqui centennial Celebration, Karnatak University, Dharwad, 14-17 Sept 2009.
32. Search and Rescue, National Civil Defence College, Nagapur, 22-24<sup>th</sup> Jan. 2008.
33. Attended the International conference on environmental pollution, water conservation and health held at Bangaluru University, Bangaluru from July 29-31, 2010.
34. Attended the International workshop on application of nanotechnology to energy, environment and biotechnology (NANO-EEB) held at St. Aloysius College, Mangalore from Dec 14-16, 2010.
35. Attended the Karnatak University Botany and Zoology College teachers conference held at

Nehru Arts, science, commerce college, Hubli on March 28<sup>th</sup> 2010.

36. Attended the National seminar on aquatic toxicology and biodiversity held at Acharya Nagarjuna university, Guntur, Andhra Pradesh from Feb 18-20, 2010.
37. National seminar on “Bioresources and its management for food, livelihood and Environmental Security and Helminthological congress”. CIFE, Mumbai, MH, 29-31<sup>st</sup> Dec, 2009.
38. International Conference on “Trends in Seri biotechnology” from 27-03-2008 to 29-03-2008 at Sri Krishnadevaraya University, Anantapur, Andhra Pradesh, India.
39. National Symposium on “Recent trends in Life sciences with special reference to Environmental Biotechnology and Biodiversity” Annual conference of 10<sup>th</sup> to 12<sup>th</sup> Feb 2007 at K. R. P. Kanya Mahavidyalaya, Islampur, Maharashtra, India
40. State Level Conference on “Biodiversity and Conservation of Angiosperms with special reference to Endangered, Endemic and Medicinal Plants” 23<sup>rd</sup> and 24<sup>th</sup> March 2007 at J. S. S. College, Dharwad, Karnataka, India.
41. Worked as a member of organizing committee in the One day workshop on Personality Development, Career Guidance and Communication Skills organized by Karnatak Science College, Dharwad on 20<sup>th</sup> March 2007.
42. National Conference on “20<sup>th</sup> Annual Conference on Global Warming-Boon or Bane and International Conference on Effects of Iodine Deficiency and Trace Elements on Human Health” from 27<sup>th</sup> to 29<sup>th</sup> December 2007 at Jamia Hamdard University, New Delhi, Uttar Pradesh, India.
43. Participated & presented paper in Seminar on Environment, Wildlife & Forests of Rayalaseema at Sri Krishnadevaraya University, Anantapur, and Andhra Pradesh.
44. Attended training on Advances on Fish Disease Diagnostics from 25<sup>th</sup> February to 27<sup>th</sup> March 2003 at Central Institute of Fisheries Education (ICAR), Mumbai.
45. Attended regional level seminar on Biodiversity for food Security at Yuvaraja’s College, University of Mysore on date 24<sup>th</sup> and 25<sup>th</sup> of June 2005.
46. Two Days Regional seminar “Antarctica an emerging vision” jointly organized by National Centre for Antarctic and Ocean Research (Department of Ocean Development, Govt of India) head land sada, Goa and Zoology Study Forum Dept of Zoology, Ponda Education Society Shri. Ravi S. Naik College of Arts and Science College, Ponda, Goa on date 20<sup>th</sup> and 21<sup>st</sup> August 2005.
47. Paper presented in the National Symposium on “Recent trends in Environmental Biology and Biotechnological approach to conserve biodiversity” 25<sup>th</sup> annual session of The Academy of Environmental Biology, 22 to 24<sup>th</sup> October 2005 at Gulbarga University, Gulbarga.
48. Paper presented in the National Conference on “Recent trends in Environmental Sciences”

- 18<sup>th</sup> Annual conference of National Environmental Science Academy, New Delhi, 25<sup>th</sup> to 27<sup>th</sup> October 2005 at J.B.Institute of Engg & Technology, Hyderabad.
49. National Symposium on Environment and Evolutionary Biology Conducted by U.G.C. and K.U. Dharwad, 2001.
50. State Level Conference on “Biodiversity and Conservation of Angiosperms with special reference to Endangered, endemic and Medicinal Plants” 23<sup>rd</sup> and 24<sup>th</sup> March 2007 at J. S. S. College, Dharwad, Karnataka, India
51. Participated in the “Intellectual Property Rights Awareness Programme” held on 8<sup>th</sup> Jan. 2005 at University law college, Dharwad, Karnataka, India
52. Participated in Refresher course in the Zoology subject from 15<sup>th</sup> Aug to 5<sup>th</sup> Sep 2000 held at Academic Staff College, Karnatak University, Dharwad
53. Participated in the orientation programme from 4<sup>th</sup> Mar to 31<sup>st</sup> Mar 2005 held at Academic Staff College, Karnatak University, Dharwad
54. Participated in Refresher course in the Environmental Science subject from 27<sup>th</sup> Dec to 16<sup>th</sup> Jan 2006 held at Academic Staff College, Karnatak University, Dharwad
55. Participated in a seminar on Atomic Energy for the Development of Nation on 2<sup>nd</sup> Sep 2006 held at Karnatak Science College, Dharwad
56. Participated in Second Kannada Science Fare from 15<sup>th</sup> to 17<sup>th</sup> Sep 2006 held at Karnatak University, Dharwad
57. Participated in seminar cum training on Bee Keeping held at H.S.Kottambari Science Institute, Hubli on 29<sup>th</sup> Oct 2006
58. Participated in Workshop on Implement of Semester system held on 6<sup>th</sup> Aug 2005 at Karnatak University, Dharwad
59. Participated in Blood Donation Camp and donated blood on 1<sup>st</sup> Nov 2006 at District Hospital, Dharwad
60. Participated in Biodiversity in action held at Kalabhavan From 22<sup>nd</sup> May 2006 Dharwad
61. Attended Workshop on Volunteer Blood donation movement at Bangalore, from 24<sup>th</sup> and 25<sup>th</sup> Mar 2006.
62. Participated in a Workshop on Zoology Teacher’s held at H.S.Kottambari Science Institute, Hubli on 12<sup>th</sup> Jan 2002
63. Participated in Seminar on DNA protein Interactions. Held on 26<sup>th</sup> February 1994 at Sri Krishnadevaraya University, Anantapur, Andhra Pradesh.
64. Participated in workshop on Scientific & Analytical Instrumentation from 13<sup>th</sup> to 16<sup>th</sup> October 1996 at Sri Krishnadevaraya University, Anantapur, Andhra Pradesh.

## **Awards and Honours**



|     |  |
|-----|--|
| 1.  | Outstanding Scientist Award – 2021 by VDGGOOD Technology Factory, Pondicherry  |
| 2.  | Global Faculty Award – 2021 by AKS Education Awards  |
| 3.  | International Best Researcher Award – 2020 by ScienceFather (SciFax)   |
| 4.  | National Nature’s Friend Award – 2020 by Lions Club of Kolhapur Trust, Kolhapur  |
| 5.  | Lifetime Achievement Award – 2020 by Agro-Environmental Development Society, Rampur, Uttar Pradesh                             |
| 6.  | EET CRS Top- 10 Award- 2019 (Education Expo TV)  |
| 7.  | 6 <sup>th</sup> Academic Brilliance Award-2018 by EET CRS Research wing for excellence in professional education and Industry. |
| 8.  | Dr. APJ Abdul Kalam Teaching Excellence – 2017, awarded by Marina Labs, Chennai  |
| 9.  | Fellowship of the Year Award – 2017, Awarded by NESA, New Delhi  |
| 10. | SAB Distinguished Environmental Biotechnologist Award – 2014 Awards by Society for Applied Biotechnology                       |
| 11. | Scientist of the year – 2013 by National Environmental Science Academy, New  |
| 12. | Environmentalism of the Year Award -2006, National Environmental Science Academy   |
| 13. | Recognized as Agricultural Expert by Krishi Mitra magazine Vol.1(8), Jan 2004  |
| 14. | Who’s Who in Science and Engineering – 2006-07 by The Marquis Who’s Who Publications Board                                     |
| 15. | Research Paper Selected for Science Direct as one of the “Top 25 Hottest Articles”   |



David M.

FOLLOWING

Professor, P.G. Department of Studies in Zoology, [Karnatak University, Dharwad](#)

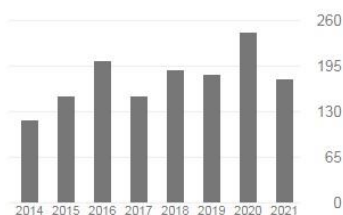
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| <input type="checkbox"/> | Response of <i>Cyprinus carpio</i> (Linn) to sublethal concentration of cypermethrin: alterations in protein metabolic profiles<br>M David, SB Mushigeri, R Shivakumar, GH Philip<br><i>Chemosphere</i> 56 (4), 347-352        | 140      | 2004 |
| <input type="checkbox"/> | Behavioral responses of the freshwater fish, <i>Cyprinus carpio</i> (Linnaeus) following sublethal exposure to chlorpyrifos<br>R Halappa, M David<br><i>Turkish Journal of Fisheries and Aquatic Sciences</i> 9 (2)            | 107      | 2009 |
| <input type="checkbox"/> | Impact of sodium cyanide on catalase activity in the freshwater exotic carp, <i>Cyprinus carpio</i> (Linnaeus)<br>M David, V Munaswamy, R Halappa, SR Marigoudar<br><i>Pesticide biochemistry and physiology</i> 92 (1), 15-18 | 101      | 2008 |

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