



Dr.M.Biruntha
Assistant Professor

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orcid.[0000-0003-4787-092X](https://orcid.org/0000-0003-4787-092X); ScopusID: [57203752025](https://scopusid.org/57203752025) ; Vidwan ID [115533](https://vidwanid.org/115533) ResearcherID: G-2438-2019

Academic Qualifications: M.Sc., M.Ed, M.Phil., Ph.D.

Teaching Experience: Total: 13 Years

Research Experience: 6 Years

Areas of Research

- **Vermiculture technology:** Using different technique for stabilization of domestic organic waste, organic farming and solid waste treatment through vermicompost process.
- **Vermiculture and Vermicompost:** The process of decomposition of organic wastes that depends upon earthworms for destruction, variety and upgrade of microbial activity.

Additional Responsibilities

S.No	Position	University	Period	
			From	TO
1	Warden, Science block women's Hostel	Alagappa University	05.07.2017	06.08.2018
2	Event Coordinator- ALUTES-2017	Alagappa University	14 & 18 .10.2017	
3	Dept.Coordinator-ALUTES-2017	Alagappa University	2017	
4	Event Coordinator-Centre on Swachh Bharat and Swasth Bharat	Alagappa University	Sep- 2017 & Feb- 2020	
5	In-Charge, Department library	Alagappa University	10.03.2016	Till date
6	Department In-charge, School level executive council of startup cell	Alagappa University	16.08.2018	Till date
7	Department Co-ordinator Village Placement Programme	Alagappa University	2018	2019
8	University Representative for DDE Examinations	Alagappa University	May 2016 & May-2017	
9	Department Coordinator for assisting the IQAC, Annual Report and Academic Audit	Alagappa University	2017	Till date
10	Squad Member, Affiliated Colleges Examinations	Alagappa University	2019	
11	Practical External Examiner , Affiliated Colleges	Alagappa University	2018	Till date
12	Member, Board of Examinations, Department of Animal Health and Management	Alagappa University	2016	Till date
13	Department Co-ordinator, NIRF	Alagappa University	2018	Till date
14	Member, Broad based Board of Studies, Dept. of Animal Health and Management	Alagappa University	2018	
15	Question paper setter in Various University	Alagappa University Bharathidasan Periyar University	2017	2019
16	Observer, TNSET, National college, Trichy.	Mother Teresa Women's University	20.04.2017	
17	Co-ordinator, Animal Day celebration	Alagappa University	2019	
18	Co-ordinator, Vermiculture Unit	Alagappa University	2017	Till date
19	Co-ordinator, Dept. Women's day celebration	Alagappa University	2016	Till date

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D	-	4
	M.Phil	12	-
Project	PG	15	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters/ Monographs / Manuals
26	45	1	10	Books : 04

Cumulative Impact Factor (as per JCR) : 108

h-index : 10

i10 index : 10

Total Citations : 483

Funded Research Projects

Completed

S. No	Agency	Period		Project Title	Budget (Rs. Inlakhs)
		From	To		
1	AURF	2017	2018	Comparision of Vermicomposting Potential of endemic earthworm species, EudrilusEugeniae and PerionyxExcavatus and their gut microbial activity	00.35

On Going

S. No	Agency	Period		Project Title	Budget (Rs. Inlakhs)
		From	To		
1	RUSA 2.0	2018	2021	Fungicidal activity of Humic and Fulvic acid fraction isolated from the vermiproduct against human pathogen <i>Malassezia</i> species	4.5

Others

Funds received from various agencies for symposia/seminars/conferences

S. No.	Name of the Programme	Funding Agency	Budget (Rs. In lakhs)
1	Business resource of Solid Waste Management through	University Bussiness Collaboration Centre- Alagappa University	00.20

	Vermicomposting	(14& 15.03.2017)	
2		University Bussiness Collaboration Centre- Alagappa University (02 &08.03.2018)	00.80

Distinctive Achievements / Awards

1. Best Educationalist National Award from Human care Human Rights Production, New Delhi-2015
2. Best Faculty Award IARA-2016, Indian Academic Researchers Association,
3. HAR GOBIND KHORANA memorial best scientist award 2017, BOSE SCIENCE SOCIETY
4. Appreciation certificate received for Warden, Science campus Women's Hostel, Alagappa University.
5. Vallal Alagappan Research Recognition Award-2020, Alagappa University.
6. Appreciation certificate received from THEME BASED RESEARCH PROJECT OF 2.0, ALU

Number of Seminars / Conferences / Workshops / Events organized:

1. **Organizing Secretary**- "World Animal Day Celebration & World Habitat Day" organized by the Department of Department of Animal Health and Management and Department of Botany in Alagappa University, Karaikudi held on 4th October, 2018.
2. **Co-Organizing Secretary**- 2nd International Conference on Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM 2019) on 24th and 25th July, 2019.
3. **Organizing Secretary**-One week Training Programme on Business Resource of Solid Waste Management through Vermicomposting. 2nd to 08th March-2018, Department of Animal Health and Management, Alagappa University.
4. **Organizing Secretary**-Two days Training Programme on Business Resource of Solid Waste Management through Vermicomposting on 14th & 15th March-2017, Department of Animal Health and Management, Alagappa University.

Events Participated (optional)

Conferences / Seminars / Workshops:

1. International Conference on "Recent Trends in Bioscience" (ICRTB-2016) organized by Biosciences Department, Alagappa University, Karaikudi held on 7th to 9th April, 2016.
2. International workshop on "Data Science and Analytics" organized by the Department of Computer Science, Alagappa University, Karaikudi held on 27th & 28th September, 2016.
3. International workshop on "Molecular Physiology, Therapeutics and Experimental Medicine" organized by the Department of Animal Health and Management, Alagappa University, Karaikudi held on 6th & 7th September, 2016.
4. National Conference on "Biotechnology-New Horizons and Hopes" (BNHH – 2016) organized by Department of Molecular Microbiology, Madurai Kamaraj University sponsored by DBT, India held on 20th & 21st October, 2016.
5. International Conference on "Recent Trends in Microbiology" (RTM-2016) organized by the Department of Microbiology, Alagappa University, Karaikudi held on 20th & 21st December, 2016.

6. National seminar on Recent Developments In Computer Networks (NSRDCN-2016) organized by the Department of Computer Applications, Alagappa University, Karaikudi held on 7th & 8th November, 2016.
7. National Seminar on “Nanomaterial’s for Specialized Applications (NMSA-2017) organized by the Department of History, Alagappa University, Karaikudi held on 9th & 10th February, 2017.
8. National Conference on “Emerging Trends in Computing (NCETC-2017) organized by the Department of Computer Science, Alagappa University, Karaikudi held on 13th & 14th March, 2017.
9. National Conference on “Entrepreneurship and innovation in Biotechnology for sustainable development”, organized by Tamilnadu scientific research organization, Pudukkottai held on 28th & 29th July, 2017.
10. National Conference on “Contemporary Issues in Justice and Human Rights”, organized by Department of History, Alagappa University held on 25th & 26th September, 2017.
11. “National conference on Trends in Microbiology (NCTM-2017)” organized by the Department of Microbiology, Alagappa University, Karaikudi held on 27th September, 2017.
12. Short term course on “Research Publication and Anti-Plagiarism” organized by Dept. Of English and Foreign languages, Alagappa University held on 9th to 15th October, 2017.
13. National Conference on “Contemporary Issues in Justice and Human Right(CIJHR-2017) organized by the Department of History, Alagappa University, Karaikudi held on 25th & 26th December, 2017.
14. Faculty Development (Enrichment) Program-Accreditation Quality Enhancement –held in Alagappa University from 6th to 12th January, 2017.
15. Two day Workshop on “Career Prospects and Developments in Computer Science”, organized by the University Business Collaboration centre & Department of Computer Science, Alagappa University, Karaikudi, on 27th & 28th February, 2017.
16. Workshop on “Commercialization prospects of microbial formulates”, organized by Department of Microbiology, Alagappa University held on 22nd to 25th January, 2018.
17. Workshop on “Data analytics consultants”, organized by Department of Computer science, Alagappa University held on 26th to 28th February, 2018.
18. International conference on “Advanced nanomaterial’s”, organized by Department of Nanoscience and technology, Alagappa University held on 27th February, 2018.
19. International conference on “Molecular advances in biomedical research”, organized by Department of Zoology, Nehru Memorial college, Puthanampattai held on 9th & 10th February, 2018.
20. Short term course on “Computer networks and R Programming “organized by Department of Computer applications, Alagappa University held on 31st January and 1st February, 2018.
21. National Seminar on “Sensitizing the women on Environmental Issues” organized by Department of Zoology, Rajah Serfoji Government College, Thanjavur held on 22nd and 23rd March 2018.
22. 8th National Conference on Natural Sciences, organized by Bose Science Society, Pudukkottai held on 15th September, 2018.
23. National Seminar on “Biotechnological Solutions for Environmental Challenge (BITSFECs – 2018)” organized by Department of Environmental Biotechnology, Bharathidasan University, Thiruchirappalli held on 17th December, 2018.

24. One Day Workshop on “Design and Development of MOOCs”, organized by Alagappa University held on 8th November, 2018.
25. National Workshop on “Indigenous Cow Management & their Value Added Products” (ICMVAP- 2K18) organized by Department of Animal Health and Management, Alagappa University held on 18th & 19th December, 2018.
26. 6thWorld congress on Nano medical Sciences (ISNSCON 2018) organized by University of Delhi, India held on 7th to 9th January 2019.
27. 5thInternational Conference on Nanoscience and Nanotechnology (ICONN2019) organized by Department of Physics and Nanotechnology, SRM University held on 28th to 30th January 2019
28. “3rd International Conference on Recent Trends in Microbiology [RTM-2019]” organized by Department of Microbiology, Alagappa University, and Karaikudi held on 24th & 25th January, 2019.
29. International conference on “HORIZON 2019: The Epitome of Biomedical Research” organized by Saveetha Dental College, Chennai held on 28th February & 1st March, 2019.
30. Two Days International workshop on “Biomedical Applications in Translational Research (BATR – 2019)” organized by Department of Biomedical science & Health Care Centre, Alagappa University held on 6th & 7th June, 2019.
31. One day symposium on “Draft National Educational Policy 2019” organized by Association of University Teachers, Tamilnadu held on 27th July, 2019 at Bishop Heber College, Trichy.
32. 2ndInternational Conference on “Molecular Physiology, Therapeutics and Experimental Medicine(MP-TEM 2019)” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi held on 24th & 25th July, 2019.
33. 9thNational Conference on Natural Sciences, organized by Bose Science Society, Pudukkottai held on 24th August 2019.
34. International conference on “Computational Sciences(ICCS2019)” organized by Department of Computer science, Alagappa University held on 23rd & 24th October-2019.
35. International conference on “Innovative and Emerging Trends in Botany (ICIETB-2019)”organized by Department of Botany, Alagappa University held on 6th & 7th November, 2019.
36. One Day Workshop on “Water Conservation “organized byJal Shakti Environment awareness club, Alagappa University held on 22nd November, 2019.
37. “Anti-plastic campaign rally at villages” organized by Centre for Swachh Bharat & Swasth Bharat, Alagappa University held on 1st July -30th November 2019.
38. International conference on “Recent trends in Bioplastics (RTB-2019)”organized by Department of Microbiology, Alagappa University held on 9th & 10th December, 2019.
39. One Day National Workshop on “Indian Research Information Network System: Adaption& Promotion”(INFLIBNET), Alagappa University held on 8th February, 2020.
40. Webinar on “Product Development and Prototyping” held on 12th May 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC) KIIT-TBI, Bhubaneswar.
41. "SPSS TRAINING" Online Program conducted on 21st May, 2020 organized by Edu- Skill Harvest Institute.
42. “Do’s and Don’ts in Scholarly writing” online programme organized by Library and information science, Alagappa University held on 18th May, 2020.

43. Three days International virtual Seminar on “The role of Nanotechnology against COVID-19”, organized by Department of Nanoscience and technology, Alagappa University held on 20th to 22nd May 2020.
44. International Webinar on “Waste Management & Sustainability” held on 29th May to 31st May, 2020 organized by Stamford University Bangladesh & Saksham Society, Jaipur Rajasthan, India.
45. Webinar on “Recent Approaches and Human Genes Against Covid 19” held on 11th June-2020 Organized by DDE Zoology wing & Department of Animal Health and Management, Alagappa University.
46. International Webinar on “The Environment Post. COVID: Mirage or Hope?” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 26th June,2020.
47. International Webinar on “Overview of Emerging Infectious diseases and its control measures” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 27th June,2020.
48. International Webinar on “Quorum Sensing: A great therapeutic choice for the development of antimicrobial agents” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 24th June,2020.
49. International Webinar on “Novel alternative treatment strategy for combating the antibiotic resistance in bacterial pathogens” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 25th June,2020.
50. Webinar on “Pest and Disease Management” under the BRTC Agri & Livestock Webinar Series held on 23rd June 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC) at KIIT-TBI, Bhubaneswar.
51. EHS Webinar 3-Waste Management in Biopharmaceutical Sector: An Integrated Approach organized by National Biopharma Mission on 29th October, 2020.
52. National Webinar on YOGA organized by PG & Research Dept. Of Zoology, Rajah Serfoji government College, Thanjavur on 1st July to 3rd July 2020.
53. International Webinar on “Past Present and future Trends in Vaccinology” organized by the Madurai Kamaraj University on 20th July 2020.
54. Webinar on “Book Series Launch Nutritional Neurosciences” organized by SPRINGER NATURE on 24th July 2020.
55. Webinar on the Response of the DBT’s Autonomous Institutes to COVID-19-Part-I organized by India Alliance on 21st August, 2020.

Invited lectures / special lectures etc., during the academic year

1. Invited lecture: Workshop on “DNA Amplication Techniques” Arumugam Pillai Seethai Ammal college, Thiruppattur December, 2016.
2. Invited lecture : Workshop on “Preparation of Research Tool” Mother Teresa College of Education ,Illuppur, Pudukkottai, February -2017
3. Invited lecture: Two-day training Programme on “Business resource of solid waste management through vermicomposting” University Business Collaboration Centre –14th and 15th March-2017.
4. Invited lecture: Stress Management and Mental Health of Youth and their Best Practices in teaching J.J College of Education, Pudukkottai 10th April 2018.

5. Invited lecture: Role of women self-help groups on solid waste management through vermicompost Rajah serfoji government college, Thanjavur 22nd and 23rd March 2018
6. Invited lecture: “Role of women self-employment on Solid waste management through vermicompost” Mother Teresa College of Education, Mettusalai, Illuppur, Pudukkottai- Dt 24th July, 2018
7. Invited lecture: “Vermicompost Preparation and Utilization in agriculture” Tamilnadu Science and research organization, NGO, Pudukkottai. 10th November , 2018
8. Special lecture on “Business Opportunity through Waste Treatment Technology” in Mother Teresa College of Education, Mettusalai, Illuppur, Pudukkottai- Dt on 6th December, 2018
9. Special lecture on “Stress Management” Mother Teresa College of Arts and Science, Mettusalai, Illuppur, Pudukkottai- Dt on 17th December, 2019
10. Special lecture on “Vermicompost Preparation and Utilization through vermitechnology Department of Zoology, Sri Meenakshi Govt. Arts College for Women (Autonomous), Madurai. 21st February, 2019
11. Special lecture on “Best Practices in Teaching Learning Environment Process” Sundareswari College of Education Sivakasi Road, Malli-626141, Srivilliputhur Taluk, Viruthunagar- Dt. 11th May 2019.
12. Special lecture on Rural women Empowerment and self-employment opportunities training programme, Rural Development Organization-RDO, Arimalam Road, Pudukkottai on 25th & 26th May 2019.
13. Special lecture on “CURRICULUM DEVELOPMENT” for M.Ed students in Mother Teresa College of Education, Mettusalai, Illuppur, Pudukkottai- Dt on 08th January. 2020
14. Special lecture on Recent Trends in Science and Technology, Seethalakshmi Achi college for Women, Pallathur on 3rd March 2021.

Other Training Programs

Orientation Courses

1. 100th Orientation Course (Bharathidasan University) (15.11.2017 to 12.12.2017)

Refresher Courses

2. Refresher Course in Zoology (Bharathiar University) (20.06.2019 to 03.07.2019)
3. Refresher Course in Zoology (University of Madras) (18.11.2020 to 01.12.2020)

Others

4. Training programme on Recent Trends in Software Industries. Role of Income Tax and Sales Tax in Business” held at Department of Animal Health and Management in Alagappa University, Karaikudi held on 3rd March, 2016.
5. “World Animal Day Celebration” organized by the Department of Department of Animal Health and Management in Alagappa University, Karaikudi held on 4th October, 2016.
6. Training Programme on "Live Feed Culture Production (Artemia, Phytoplanktons & Zooplanktons, Spirulina) And Sea Weed Culture And Its Allied Industries” organized by the Department of Animal Health and Management in Alagappa University, Karaikudi held on 26th February, 2016.
7. Contributed to the ALUTES 2017 organized by the Cultural club, Alagappa University, Karaikudi during October 12th to 14th, 2017 as Event Coordinator.

8. Swachhta Pakhwada 2017 conducting Elocution contest as communicated by University Grant Commission, New Delhi and organized by Alagappa University, Karaikudi, during 1-15th September, 2017.
9. Swachhta Pakhwada 2017 conducting clean hostel day as communicated by University Grant Commission, New Delhi and organized by Alagappa University, Karaikudi, during 1-15th September, 2017.
10. “World Animal Day Celebration” organized by the Department of Department of Animal Health and Management in Alagappa University, Karaikudi held on 4th October, 2017
11. Training programme on “Empowering the Change makers in Biopharma Sector” organized by KIIT- Technology Business Incubator and BCIL for National Biopharma Mission, Department of Biotechnology, Government of India at Bhubaneswar during March 3rd to 5th, 2020.
12. Seven days Faculty Development Programme-FDP on Latex organized by Spoken Tutorial Project, IIT, Bombay. Funded by MHRD, Govt. of India.
13. Two-Week online Capacity Building Programme held on 12th to 23rd June, 2020 organized by Alagappa University Under the sponsorship of UGC STRID Component-I scheme.
14. Five days Faculty Development Programme-FDP on “Insights into Marine Biodiversity and Taxonomy”, organized by the Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai from 10th to 14th August 2020.
15. As having completed the Publons Academy Practical Peer Review course to a satisfactory level on the 1st of June 2021. Certified PUBLONS Academy Peer Reviewer.
16. Seven days Online workshop on “Role of Technology and some specific Tools in Research” Organized by the academic association, SGTU in collaboration with Prodigy- A Science, FOSC during 28th June to 3rd July, 2021.

Professional Bodies

1. Life Member, Dr.S.Radhakrishnan Teacher’s Welfare Association
2. Life Member, Council for Teacher Education, Tamil Nadu State centre
3. Life Member, Indian Academic Researchers Association
4. Life Member, Tamilnadu Scientific Research Organization

Academic Bodies (such as Board of Studies etc.,)

1. Member, Board of Studies in Zoology, Department of Animal Health & Management, Alagappa University
2. Member, Ph.D Doctoral Committee - Alagappa University

Memorandum of Understanding Details

1. Tamilnadu Scientific Research Organization, BOSE SCIENCE SOCIETY
2. Saveetha Institute of Medical and Technical sciences, Saveetha University, Chennai

Others

Sequences submitted in GenBank: 9

MF927959 KY886134 KY886135 MF446964 MH299975

MH299976 MH299977 MF182402 MG188737

Editorial Board

S.No	Position	Name	Period
1	Editorial Board Member	Indian Journal of Natural Sciences	2017 to Till date
2	Editorial Board Member	Namadhu Ariviyal-Science Awareness Tamil Monthly	2017 to Till date

Recent Publications

1. Durairaj Sekar, Ganesh Lakshmanan, **M Biruntha** (2021) Implications of CRISPR/Cas9 system in Hypertension and its related diseases, **Journal of Human Hypertension**, V-35(7) p 642-644 (IF-2.43)
2. **Biruntha M** Soundarya S , Vidhyavathi RM, Joseph Sahayarayan J , Langeswaran K (2021) In silico mechanistic intervention of medicinal plants derived inhibitors against ABL kinase targeting cervical cancer: A novel approach , **Biomedical Research**, V-32(1) p 19-23
3. Radhakrishnan Yedhu Krishnan, Sivasubramanian Manikandan, Ramasamy Subbaiya, **Muniyandi Biruntha**, Muthusamy Govarthan, Natchimuthu Karmegam (2021)Removal of emerging micropollutants originating from pharmaceuticals and personal care products (PPCPs) in water and wastewater by advanced oxidation processes: A review, **Environmental Technology & Innovation**, p 101757 (IF-5.26).
4. Sundaraj Rajamanikandan, **Muniyandi Biruntha**, Gopal Ramalingam (2021)Blue Emissive Carbon Quantum Dots (CQDs) from Bio-waste Peels and Its Antioxidant Activity, **Journal of Cluster Science**, p 1-9 (IF-3.06).
5. Muthumanickam Sankar, Boomi Pandi, Nachiyappan Mutharasan, Balajee Ramachandran, Vidhyavathi Ramasamy, Poorani Gurumalles Prabu, Shanmugaraj Gowrishankar, Yao Wang, **Biruntha Muniyandi**, Subaskumar Rathinasamy, Balakumar Chandrasekaran, Mohammad F. Bayan, Jeyakanthan Jeyaraman, Gurumalles Prabu Halliah, Solomon King, (2021) In silico Screening of Natural Phytocompounds Towards Identification of Potential Lead Compounds to Treat COVID-19, **Frontiers in Molecular Biosciences**, V-8 p 637122 (IF-5.24).
6. Ananthanarayanan Yuvaraj, Muthusamy Govarthan, Natchimuthu Karmegam, **Muniyandi Biruntha**, Dhanabalan Senthil Kumar, Mohan Arthanari, Rasiravathanahalli Kaveriyappan Govindarajan, Sudipta Tripathi, Swayambhu Ghosh, Ponnuchamy Kumar, Soundarapandian Kannan, Ramasundaram Thangaraj (2021) Metallothionein dependent-detoxification of heavy metals in the agricultural field soil of industrial area: Earthworm as field experimental model system, **Chemosphere**, V-267 p 129240,(IF-7.08).
7. Sekar Vijayakumar, Mani Divya, Baskaralingam Vaseeharan, Jingdi Chen, **Muniyandi Biruntha**, Luciano Paulino Silva, Esteban F Durán-Lara, Krishnan Shreema, Shivendu Ranjan, Nandita Dasgupta (2021) Biological Compound Capping of Silver Nanoparticle with the Seed Extracts of Blackcumin (Nigella sativa): A Potential Antibacterial, Antidiabetic, Anti-inflammatory, and Antioxidant, **Journal of Inorganic and Organometallic Polymers and Materials**-31(2)P 624-635(IF-3.54)
8. Natchimuthu Karmegam, Mani Jayakumar, Muthusamy Govarthan, Ponnuchamy Kumar, Balasubramani Ravindran, **Muniyandi Biruntha** (2021) Precomposting and green manure

- amendment for effective vermitransformation of hazardous coir industrial waste into enriched vermicompost , **Bioresource Technology**, V-319 p 1241361(IF-9.64)
9. M Sivagami, M Selvambigai, U Devan, A Antony Joseph Velangani, N Karmegam, **M Biruntha**, A Arun, W Kim, M Govarthan, P Kumar (2021) Extraction of microplastics from commonly used sea salts in India and their toxicological evaluation, **Chemosphere**, V-263 p 128181(IF-7.08)
 10. Ramalingam Balachandar, **Muniyandi Biruntha**, Ananthanarayanan Yuvaraj, Ramasundaram Thangaraj, Ramasamy Subbaiya, Muthusamy Govarthan, Ponnuchamy Kumar, Natchimuthu Karmegam (2021) Earthworm intervened nutrient recovery and greener production of vermicompost from Ipomoea staphylina–An invasive weed with emerging environmental challenges, **Chemosphere**, V-263 Pages-128080(IF-7.08)
 11. **M. Biruntha** , J. Archana , K. Kavitha , K. Vanimuthu, B. KarunaiSelvi , J.A. John Paul R.M. Vithyavathy , K. Kaviyarasu , G. Ramalingam, (2020) ,Efficacy of dye degradation of contaminated soil microbial isolates, **Materials Today: Proceedings**, 2020 2214-7853 Elsevier.
 12. **Muniyandi Biruntha**, Pitchaimuthu Mariappan, Balan KarunaiSelvi, James Arockia John Paul, Natchimuthu Karmegam(2020), “Vermiremediation of Urban and Agricultural Biomass Residues for Nutrient Recovery and Vermifertilizer Production”, **Waste and Biomass Valorization**, -11(12)6483-6497(IF-3.7).
 13. Archana Jeyaprakasam, **Biruntha Muniyandi**, Arockia John Paul James, Natchimuthu Karmegam, Kumar Ponnuchamy (2020) Assessment of earthworm diversity and pesticide toxicity in Eudrilus Eugeniae **Environmental Chemistry and Ecotoxicology**, V- 3, 2021, Pages 23-30.
 14. DurairajSekar, Jayapriya Johnson, **M Biruntha**, Ganesh Lakhmanan, Deepa Gurunathan and Kehinde Ross (2020), Biological and Clinical Relevance of micro RNAs in Mitochondrial Diseases/Dysfunctions, **DNA AND CELL BIOLOGY**, Pp 1-6 1044-5498 (IF 3.31).
 15. J. A. John Paul, M. Muthumeenal and **M. Biruntha** (2020) , Changes in the Protein Profiling of Earthworms Cultured in Toxic Substrates, **Gedrag & Organisatie Review** - ISSN:0921-5077 VOLUME 33 : ISSUE 02 –Page No:2513(IF 0.25).
 16. Jayapriya Johnson, Ganesh Lakhmanan, **Biruntha M**, Vidhyavathi RM, Kohila Kalimuthu, Durairaj Sekar (2020) , Computational identification of MiRNA-7110 from pulmonary arterial hypertension (PAH)ESTs: A new microRNA that links diabetes and PAH, **Hypertension Research**, 1348- 4214 (IF-3.8)
 17. **Muniyandi Biruntha**, Jayaprakasam Archana, Kurumban Kavitha, Balan KarunaiSelvi, James Arockia John Paul, Ramalingam Balachandar, Muthupandian Saravanan, Natchimuthu Karmegam (2020), “Green Synthesis of Zinc Sulfide Nanoparticles Using Abrus precatorius and Its Effect on Coelomic Fluid Protein Profile and Enzymatic Activity of the earthworm, Eudrilus eugeniae” ,**BioNanoScience**- Springer Nature Pp 1-8 21911630, 21911649
 18. **Muniyandi Biruntha**, NatchimuthuKarmegam, Jeyaprakasam Archana, BalanKarunaiSelvi, James Arockia John Paul, B. Balamuralikrishnan, S.W. Chang, B.

- Ravindran (2020). Vermiconversion of biowastes with low-to-high C/N ratio into value added Vermicompost. **Bioresource Technology**, V-297 0960-8524 4 (IF -9.6)
19. Archana Singh, Natchimuthu Karmegam, Gopal Shankar Singh, Tunira Bhadauria, Soon Woong Chang, Mukesh Kumar Awasthi, Sivasubramanian Sudhakar, Kantha Devi Arunachalam, **Muniyandi Biruntha**, Balasubramani Ravindran, (2020) Earthworms and vermicompost: an eco-friendly approach for repaying nature's debt. **Environmental Geochemistry and Health**, Pp 1-26 0269-4042 (IF-4.6)
 20. Samynathan Jeyarani, Nadar Manimaran Vinita, Patel Puja, Singaravelu Senthamilselvi, Umapathy Devan, Antony Joseph Velangani, **Muniyandi Biruntha**, Arivalagan Pugazhendhi, Ponnuchamy Kumar (2020), Biomimetic gold nanoparticles for its cytotoxicity and biocompatibility evidenced by fluorescence-based assays in cancer (MDA-MB-231) and noncancerous Cells (HEK-293), **Journal of Photochemistry & Photobiology, B: Biology**. 1751-1097- 2 (IF 6.25)
 21. Lian Bai, Junwu Li, Mani Panagal, **Biruntha.M.** & Durairaj Sekar, (2019) Methylation dependent microRNA 1285-5p and sterol carrier proteins 2 in type 2 diabetes mellitus, **Artificial Cells, Nanomedicine and Biotechnology**. 47:1,3417-3422, 2169-1401- 2-(IF-5.67)
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