

Dr.A. Balasubramani

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MKU web page link of the faculty Scopus link if available Vidwan link if available

**1. Personal Details**

Date of Birth & Age : 05.07.1962
 Gender & Marital Status : Male & Married
 Community : Hindu – Isai Vellalar
 Nationality : Indian
 Place of Birth : Madurai

2. Educational Qualifications**2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	BSc Degree	MKU/Madura College	1984	70%	Zoology Chemistry
Post Graduate	MSc Degree	Annamalai University	1990	59.5%	Zoology

**Add additional rows for other academic degrees obtained / remove if not necessary*

2.2. Research

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Madurai Kamaraj University	Endocrine and Genetic studies in selected ornamental fish	29.12.2006	14.11.2007

3. Post-Doctoral/ Research Associate / Industrial Experience - Nil

Name of the University / Institute / Industry	Period of Work	Nature of Work

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
	School of Biological Sciences, Madurai Kamaraj University	Technician/Administrative Officer	15.11.1984	13.01.1992
	School of Chemistry, Madurai Kamaraj University	Technician (PG)/Technical Officer (PG) Special Grade	13.01.1992	03.12.2013
	Thiagarajar College, Madurai	Assistant Professor in Zoology (on lien from MKU)	11.09.2008	20.04.2010

5. Teaching (List all the courses taught (semester-wise) – MPhil, PG and UG)

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	I		MSc zoology – Animal Physiology, Aquaculture	4 h per round of contact seminar
				BSc and MSc zoology practical training and exams	30 hours per sem

*Add additional rows

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level(PG/UG)
	B.Sc., Zoology	DDE, MKU	UG
	M.Sc., Zoology	DDE, MKU	PG
	M.Sc., Zoology	Yadava College for men, Madurai	PG

7. Creation of ICT Mediated Teaching-Learning Pedagogy - Nil

7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level(PG/UG)

7.2. E-Contents

No	Description	Organization for which it was Developed	Level(PG/UG)

7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level(PG/UG)
	M.Sc., Zoology – Physiology course, PPT presentation for class	DDE, MKU	PG

8. Research Specialization / Field of Research

- Reproductive biology of fish
- Toxicology of EDCs in fish

9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals		Endosulfan suppresses growth and reproduction in zebrafish, Balasubramani, A. & Pandian, T.J., Curr.Sci. 2008, 94: 883-890
	Effect of Tributyltin Chloride on Survival, Growth and Reproduction in Zebra Fish <i>Danio rerio.</i> , Balasubramani, A & Pandian, T.J., J.Aquaculture 21: 146-156.	
		Norethindrone ensures masculinization, normal growth and secondary sexual characteristics in the fighting fish, <i>Betta splendens</i> , Balasubramani, A. & Pandian, T.J., Curr. Sci. 2008, 95: 1446-1453.
	Effect of norethindrone acetate on masculinization, growth and reproduction in zebrafish <i>Danio rerio</i> , Balasubramani, A., Asian Fisheries Science , 2010, 23:1256-1271.	
	Effect of commercial grade endosulfan on growth and reproduction in the fighting fish <i>Betta splendens</i> , Balasubramani, A. &	

	Pandian, T.J., Environ Toxicol. , 2014, 29:1054-1062.	
	MnO ₂ nanorods grown NGNF nanocomposites for the application of highly sensitive and selective electrochemical detection of hydrogen peroxide, K Ramachandran, A Zahoor, TR Kumar, KS Nahm, A Balasubramani, G Gnanakumar, J Ind Eng Chem. , 2017, 46:19-27.	
	The Sensitive and Selective Enzyme free electrochemical H ₂ O ₂ Sensor based on rGO/MnFe ₂ O ₄ , 2017, K Ramachandran, A Zahoor, TR Kumar, KS Nahm, A Balasubramani, G Gnanakumar, Electrocatalysis , DOI 10.1007/s12678-017-0418-2	
	Waste paper derived three-dimensional carbon aerogel integrated with ceria/nitrogen-doped reduced graphene oxide as freestanding anode for high performance and durable microbial fuel cells, Senthilkumar N, Aziz MA, Pannipara M, Alphonsa AT, Al-Sehemi AG, Balasubramani A, Gnanakumar G., Bioprocess Biosyst Eng. 2019 DOI: 10.1007/S00449-019-02208-4	
	Surfactant and binder free hierarchical NCNPs @CuO nanostructures on ITO for the cost effective enzyme free glucose sensor applications, Vasuki K, Siva G, Balasubramani A, Pannipara M, Al-Sehemi AG, Xia Y, Fang R, Yoo DJ, Kumar TR, Ramachandran R, Gnanakumar, G., Applied Physics A , 2019, 125:384 https://doi.org/10.1007/s00339-019-2652-3	

	Waste paper derived three-dimensional carbon aerogel integrated with ceria/nitrogen-doped reduced graphene oxide as freestanding anode for high performance and durable, Senthilkumar N, Aziz MA, Pannipara M, Alphonsa AT, Al-Sehemi AG, Balasubramani A, Gnana kumar G., Bioprocess and Biosystems Engineering , 2020, 43 (1), 97-109	
	Acute and Chronic Toxicity of Endocrine Disruptive Heavy Metals and Pesticides Exposed to freshwater fish <i>P. reticulata</i> and <i>P. spenops</i> , Vidya Varghese, N. Nagarani, A. Balasubramani, Curr. World Environ. , 2021, 427-435.	
Editor of Conference/Seminar Proceedings	Laboratory Manual: Marine Ecotoxicology; Short-Term Hands on Training in Recent Advances in Marine Ecotoxicological Testing, (RAMETOX-2015); 2017 Ed., Ramakritinan, C.M., A.K. Kumaraguru, B.R. Subaramanian, D. Mohan, A. Balasubramani and T. Muneeswaran	
Study materials prepared for DDE students	DDE Self Learning Materials for B.Sc., Zoology programme PAPER - Developmental Biology and Molecular Biology	
	DDE Self Learning Materials for B.Sc., Zoology programme PAPER – Cell Biology and Genetics	
	DDE Self Learning Materials for B.Sc., Zoology programme PAPER - Biochemistry and Physiology	
	DDE Self Learning Materials for B.Sc., Zoology programme PAPER - Ecology and Evolution	
	DDE Self Learning Materials for B.Sc., Zoology programme PAPER - Biotechnology	
	DDE Self Learning Materials for B.Sc., Zoology programme Practical II	
	DDE Self Learning Materials for B.Sc., Zoology programme Practical III	
	DDE Self Learning Materials for B.Sc., Zoology programme Practical IV	
	DDE Self Learning Materials for M.Sc., Zoology programme PAPER – Fisheries and Aquaculture	

Papers Presented in Conferences/Seminars	Effect of endosulfan on chosen ornamental fishes, Balasubramani, A. and Pandian, T.J., National Conference on Environment Science and Technology, Bharathidasan University, Tiruchirapalli, 28 & 29.11.2008
	“Effect of Anthracene on Oxidative Stress in Zebrafish”, Vidya Varghese, Nagarani, N. and Balasubramani, A. , National Conference on Innovations in Modern Biology & 48 th Aqua-Terr Annual Conference, 27 & 28.2.2017
Conference/Seminar/Workshop Attended	Effects of heavy metal exposure to freshwater fish <i>Poecilia sphenops</i> and <i>Poecilia reticulata</i> , Vidya Varghese, Balasubramani, A. and Nagarani, N., DST-SERB Sponsored International Conference on ‘Emerging Contaminants in water and Environment’, PSG institute of Advanced Studies, Coimbatore, 22 & 23.01.2019.
	Endocrine Disruptor Tributyltin (TBT) induces Obesity, C. Justin David and A. Balasubramani , International Conference on Current Scenario of Physiology and Behaviour, Department of Zoology, Periyar University, Salem, 22 & 23.02.2019
	Transplantation of Obese Fish Gut Microbiome Accelerates Obesity in Zebrafish, <i>Danio rerio</i> , C. Justin David and A. Balasubramani , International Conference on Obesity, Diabetes and Cardiology, School of Biological Sciences, Madurai Kamaraj University, Madurai, 25 & 26.02.2020
	Expression of selected clock genes in Obese Zebrafish, <i>Danio rerio</i> , C. Justin David and A. Balasubramani , International Conference on Obesity, Diabetes and Cardiology, School of Biological Sciences, Madurai Kamaraj University, Madurai, 25 & 26.02.2020
	Molecular Identification Of Porites Spp. Associated Endosymbionts In Mandapam Coast, Palk Bay, India, Rajesh Kannan, M., N. Muthurakku (A) Sudha, T. Muneeswaran, B. Ramkumar, N. Sivakumar, P. Gunasekaran, A. Balasubramani , and C.M. Ramakritinan, National Conference on ‘Environmental Sustainability, Health and Pollution Abatement (NCESHPA-2020) Wakf Board College, Madurai, 02-03-2020
	Preliminary Study On The Evaluation of Luminescent Bacteria <i>Vibrio Campelli</i> As a Biosensor for Toxicity Screening, Muneeswaran, T., N. Muthurakku (A) Sudha, T. Vennila, M. Rajesh Kannan, A. Balasubramani , C.M. Ramakritinan and Franck Quero, National Conference on ‘Environmental Sustainability, Health and Pollution Abatement (NCESHPA-2020), Wakf Board College, Madurai, 02-03-2020
	Acute Toxic Effect of Atrazine and Malathion on Marine Bivalve Mollusc, <i>Donax Faba</i> , Ramakritinan, C.M., P. Sathiyapriya, A. Balasubramani and T. Muneeswaran,

	National Conference on Recent Trends and Prospects in Energy, Environment and Natural Resources -ENERGY FEST'19, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, 05-04-2019

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	
Total Citations (Scopus/Web of Science)	157
h-Index (Scopus/Web of Science)	6
g-Index (Scopus/Web of Science)	
i10 Index (Scopus/Web of Science)	6

11. Details of Patents - Nil

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)			
PhD (Part-time)		One	One
MPhil Research Project (Full-time)	Two		
MPhil Research Project (Part-time)	Two		
MSc Projects/Dissertation	One		
MSc Internships/Summer or Winter Projects			

13. Funded Research Projects NIL

13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project

14. Reviewer in Journals (List of Journals and Total No of Articles Reviewed)

Name of the Journal	Publisher	No of Papers Reviewed
Numerous in the field of Toxicology	Springer, Elsevier and others	

15. Research Collaborations NIL

Name of the Collaborator	Institute	Collaboration Details

16. Countries Visited

Name of the Country	Period	Purpose
Thailand	15.02.2016 to 26.02.2016	Toxicological Research workshop and Training

17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
International sponsored (Travel and accommodation) to the Chulabhorn Research Institute, Bangkok, Thailand	International Development Cooperation Agency, Thailand	International 15.02.2016 to 26.02.2016

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding
National Seminar	Recent Trends in Ecotoxicological Research	09.08.2017	Department of Zoology, DDE, Madurai Kamaraj University	Organizing Secretary	MKU-DDE

19. Invited Lectures / Resource Person: NIL

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)

20. Professional Development Programs / Faculty Development Programs Organized – NIL

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
Orientation Programme	Academic Staff College, MKU, Madurai –	18.05.2009 to 04.06.2009, 28 days	UGC
Refresher Course in Biological Sciences	MHRDC, MKU, Madurai	27-11-2015 to 17.12.2015, 21 days	UGC
Refresher Course in Biological Sciences	MHRDC, MKU, Madurai -	02.11. 2016 to 22-11-2016, 21 days	UGC

22. Administrative Experiences

Role Played	Responsibilities	Period (from ... to)
Special Invitee	Board of Studies – Dept. of Zoology, Thiagarajar College, Madurai	2008-2010
Grievance Officer, DDE, MKU	Attended the grievances of the students related to DDE and Examinations.	01.06.2013 – 31.03.2014
Additional Public Information Officer, DDE, MKU	Attended to the RTI queries related to DDE.	01.10.2013 – 30.06.2014
SC/ST Cell-in-Charge, DDE, MKU	Attended to the Scholarship disbursal of DDE students and released cheques to the tune of 12 lakh.	01.10.2013 – 30.06.2014
Special Camp Officer	Central Evaluation Board of DDE, MKU	Nov., 2013 - Dec.2013
Course Co-Ordinator	for UG/PG/Diploma courses in Zoology, DDE, MKU	3.12.2013 to till date
Nodal Officer	Evaluation Board of UG/PG/PG Diploma & Diploma/Certificate Courses /	3.12.2013 to till date
Chief Superintendent	MKU-DDE Exams evaluation Board	Oct. - Nov., 2015
Assisted the Addl. Controller of Exams, DDE, MKU	Evaluation Board of UG/PG/PG Diploma & Diploma/Certificate Courses /	Aug. - Sep., 2014
Member - Organising Committee	National Workshop on RAMETOX conducted by the Dept. of Marine and Coastal Studies, MKU, Pudumadam	05.01.2017 to 09.01.2017
Member - Organizing Committee	Served as a member for the International Conference on Algebra and Discrete Mathematics, DDE, MKU	08.01.2018 to 10.01.2018
Member- Organizing Committee	Served as a member for one National Seminar on Cyber Crimes and Security Issues in Digital World, DDE, MKU	26.02.2018
Member - Organizing Committee	Served as a member for National Seminar on Water Quality & Treatment, DDE, MKU	22 & 23.03.2018
Head-in-Charge, Department of Zoology, DDE, MKU	Conductance of UG and PG Programmes in Zoology and other related works	05.01.2018 to till date
Member-IQAC, Madurai Kamaraj University	Collected data and assisted in the preparation of report	18.08.2017 -30.06.2020

23. Membership in Academic Bodies (BoS, DC, External Examiner, etc.)

Name of the University / Institute / College	Type of Membership	Duration / Period
Madurai Kamaraj University	Special invitee for UG and PG board of Studies in Zoology	2 occasions
Yadava College, Madurai - 2022	University Nominee in the BoS of Zoology Board for framing M.Sc., Zoology Syllabus	3 years
Dravidian University	Ph.D. thesis adjudicator	1 year
Alagappa University	Member of the panel of Question paper setter	3 years
Bharathidasan University	Member of the panel of Question paper setter	3 years

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership

25. Languages Known

Languages	Read	Write	Speak
TAMIL	Yes	Yes	Yes
ENGLISH	Yes	Yes	Yes

26. Competence in Computer Applications - Yes

27. Involvement in Extension Activities other than Academic Works – Yes

As a Head in charge, it is pertinent to established a separate laboratory for Zoology programmes in DDE, MKU with the financial assistance of DDE to a tune of 5 lakh in the DDE premises.

28. Any Other Relevant Information

I was instrumental in maintaining the office of MKU-Industrial Consultancy Group under the aegis of Department of Materials Science, MKU and accrued an amount of Rs.30 lakhs to the University funds during the year 1992 to 2006.