




## PROFILE

Name		Dr. C. Justin David M.Sc., M.Phil., Ph.D., Post Doc (USA)	
Department	Rural Development Science		
Designation	Assistant Professor		
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Teaching Experience	UG: 7	PG: 7	



### Recognised Educational Qualifications

S. No.	QUALIFICATION	INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING	GRADE/C LASS
1	B.Sc (Zoology)	Vivekananda College, Madurai	Madurai Kamaraj University, Madurai	1995	Distinction -I Class
2	M.Sc., (Zoology)	Thiagarajar College, Madurai	Madurai Kamaraj University, Madurai	1997	I Class
3	M. Phil.,	Madurai Kamaraj University, Madurai	Madurai Kamaraj University, Madurai	2000	I Class
4	Ph.D.	Madurai Kamaraj University, Madurai	Madurai Kamaraj University, Madurai	2006	Qualified

## Work Experience

S.No	Name of the Institution/Organisation	Designation	Nature of Work	Period	AOI (Any Other Information)
1	University of Pennsylvania, Philadelphia USA	Post-Doctoral Researcher	Research and Teaching	03-05-2006 to 7.07.2013	7 Years
2	Kerala University of Fisheries and Ocean Studies, Kochi, Kerala	Assistant Professor cum Academic Coordinator	Teaching Staff (UG & PG)	1.11.2014 to 31- 4-2021	6 years and 5 Months
3	Arul Anandar College, Karumathur, Madurai	Assistant Professor	Teaching Staff	9-8-2021 to Till date	--

## Publications (Contributions in Journals/Edited Books/Proceedings)

S.No	Title of the Paper	Name of the Journal/Book/ Proceedings	Whether Journal/ Book/ Proceeding	Volume and No	Page Nos	ISSN/ ISBN No	Year of Publication
1	GFP reporter gene confirms paternity in the androgenote Buenos Aires tetra, <i>Hemigrammus caudovittatus</i>	Journal of Experimental Zoology	Journal	Vol.305 A	83-95	1552-5015	2006
2	Cadaveric sperm induces intergeneric	Theriogenology	Journal	Vol 65	1048-1070	0093-691X	2006

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	androgenesis in the fish <i>Hemigrammus caudovittatus</i> .						
3	Induction of paternal and maternal hybrid triploids in the tetra.	Journal of Fish Biology	Journal	Vol 69	1102-1019	0022-1112	2006
4	Dispermic induction of interspecific androgenesis in the fish Buenos Aires tetra using surrogate eggs of widow tetra	Current Science	Journal	Vol 95	64-74	0011-3891	2008
5	Cardiac alpha 2 macroglobulin and its reliability as a cardiac marker in HIV patients	Heart Lung and Circulation	Journal	Vol 19 (2)	92-95	1443-9506	2010
6	Identification of novel inhibitors of dietary lipid absorption using zebrafish	PLoS One	Journal	Vol.5 (8)	E12386 (1-9)	1932-6203	2010
7	Successful induction of androgenesis in widow tetra, <i>Gymnocorymbus ternetzi</i>	Asian Fisheries Science	Journal	Vol. 27	17-126	0116-6514	2014
8	Preliminary investigations on generating gnotobiotic zebrafish	International J Advanced Science & Engineering	Journal	Vol.2	124-129	2349-5359	2016

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9	Induction and survival of androgenetic clones of widow tetra, <i>Gymnocorymbustern etzi</i> (Boulenger, 1895) generated using cryopreserved sperm	International J Advanced Science & Engineering	Journal	Vol. 2 No:3	150-154	2349-5359	2016
10	Heterologous induction of allotetraploidy and early embryonic development in Buenos Aires Tetra, <i>Hybessobryconanisit si</i> (Eigenmann, 1902)	International J Advanced Science & Engineering	Journal	Vol. 2 No 3	145-149	2349-5359	2016
11	A Rapid PCR assay for identification of males in widow tetra, <i>Gymnocorymbus ternetzi</i> (Boulenger, 1895)	European Journal Biomedical and Pharmaceutical Science	Journal	Vol.3 No 6	436-440	2349-8870	2016
12	High Cholesterol Diet (HCD) induces Non-Alcoholic Fatty Liver disease (NAFLD) in zebrafish	European Journal Biomedical and Pharmaceutical Science	Journal	Vol. 3(6)	431-435	2349-8870	2016

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13	Preliminary investigations on effects of PAHs on embryos of widow tetra, <i>Gymnocorymbustern etzi</i> Boulenger (Characidae)	International Journal of Fisheries and Aquatic Studies	Journal	Vol. 4(4)	120-124	2394-0506	2016
14	Reproductive performance and progeny testing of androgenetic clones of widow tetra, <i>Gymnocorymbustern etzi</i> (Boulenger, 1895) generated using cryopreserved sperm.	International Journal of Fisheries and Aquatic Studies	Journal	Vol. 4(4):	115-119	2394-0506	2016
15	Functional role of miRNAs in Lipid metabolism and Obesity	European Journal of Biomedical and Pharmaceutical Science	Journal	Vol. 3(8):	513-523	2349-8870	2016

### Projects Ongoing/Completed

S.No	Funding Agency	Title of the Project	/Duration	Value
1	Department of Science & Technology, India	Effect of dietary lipids on gene expression profile of zebrafish	2013-2016	25 Lakhs

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## Invited Lectures

<b>S.No</b>	<b>Title of the programme</b>	<b>Organiser</b>	<b>Date of the Event</b>
1	National Conference on Recent Advances in Biotechnology	Mother Teresa Women's University, Kodaikanal, Tamilnadu	14 March 2016
2	National Workshop on "Gene to Genomics: Celebrating 150 years of Mendelism"	CMS college, Kottayam, Kerala	Jan 21 2016
3	AquaTerr Conference	Madurai Kamaraj University, Madurai	28 Feb, 2012
4	Invited Lecture on Drug Discovery Models	<b>Bharathiyar University, Coimbatore</b>	<b>27 Feb, 2010`</b>
5	Invited Lecture on HTS Screening for Drug Discovery	<b>Bharathidasan University, Trichirapalli</b>	<b>18 March 2010.</b>

## Oral Presentations delivered in National and International Conferences

<b>S.No</b>	<b>Title of the programme</b>	<b>Organiser</b>	<b>Date of the Event</b>
1	International Conference on Aquatic Resources and Blue Economy (AQUABE2019)	Kerala University of fisheries and Ocean Studies. Kochi, Kerala	28 <sup>th</sup> -30, November, 2019
2	International conference on Current Scenario of Physiology and Behaviour (CSPB 2019)	Periyar University, Salem, Tamilnadu	22-23 February, 2019

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3	National Conference on Recent Trends in Modern Biology & 47 <sup>th</sup> Aqua-Terr Annual conference	Madurai Kamaraj University, Tamilnadu	27-28, February, 2016
4	International Conference on “Towards Sustainable Blue Economy: production, Strategies and Policies TASBE2016	Kerala University of fisheries and Ocean Studies. Kochi, Kerala	4–6 February 2016
5	In-Stem International Conference on Inflammation and Tissue Homeostasis held	Institute for Stem Cell Biology and Regenerative Medicine (InSTEM), NCBS, Bangalore	3-5 February 2016
6	International conference on Biomedical Sciences	CCMB and Sci-Genome, Hyderabad	1- 3 OCT, 2015
7	RMBT 2015 International conference	Manonmaniam Sundaranar University, Tirunelveli	Sep 27-29, 2015
8	International conference on World Ocean Science Congress (WOSC)	Kerala University of fisheries and Ocean Studies. Kochi, Kerala	Feb5-8, 2015.

**Abstracts/Posters presented/ Participation in Seminars/Conferences/Workshop**

<b>S.No</b>	<b>Title of the Paper</b>	<b>Title of the Seminar/conference/ Workshop</b>	<b>Level of Seminar/ Conference/ Workshop</b>	<b>Organizing Institution</b>	<b>Date and Year</b>
1	Chemical genetic screen for modulators of lipid absorption and metabolism	Department of Medicine Research day	International	<b>University of Pennsylvania, Philadelphia, USA</b>	May 23, 2008.

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2	High-throughput screening assay for lipid metabolism inhibitors in zebrafish using engineered fluorescent optical probes	7th annual Biomedical Postdoctoral Symposium	International	<b>University of Pennsylvania, Philadelphia, USA</b>	October 24, 2008
3	Non-invasive in-vivo detection of Matrix Metallo-Protease (MMPs) activity by novel Near Infra-Red (NIR) fluorescent probes in KRN serum transfer mice model	9th annual Biomedical Postdoctoral Symposium	International	<b>University of Pennsylvania, Philadelphia, USA</b>	Oct 6, 2010
4	Molecular Imaging of Matrix Metallo-Protease (MMPs) activity using novel Near Infra-Red (NIR) Probes in Breast Cancer (MB453) cell line.	11th annual Biomedical Postdoctoral Symposium	International	<b>University of Pennsylvania, Philadelphia, USA</b>	Oct 6, 2012
5	Zebrafish: a Potential Model to Study Stem Cell Proliferation and Differentiation	4th International Conference on Stem cells and cancer (ISCC): Proliferation, differentiation and apoptosis	International	International Center for Stem Cells, Cancer and Biotechnology, Pune, India	19-22 <sup>nd</sup> Oct, 2013

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6	Circadian expression of selected clock genes in obese zebrafish	International conference on Physiology and Medicine	International	<b>Periyar University, Salem</b>	15-17, October, 2014
7	Zebrafish as a novel bio-indicator for studying environmental pollution in and around Ernakulam	International conference on World Ocean Science Congress (WOSC)	International	<b>Kerala University of Fisheries and Ocean Studies, Kerala</b>	Feb5-8, 2015
8	Heterologous induction of inter-specific allotetraploidy in Buenos Aires tetra, <i>Hyphessobryconanisitsi</i> (Eigenmann), a genetic model for increasing hybrid vigour in edible fishes	International conference on World Ocean Science Congress (WOSC)	International	<b>Kerala University of Fisheries and Ocean Studies, Kerala</b>	Feb5-8, 2015
9	Small RNA deep sequencing: Abundant and altered expression of PIWI-Interacting RNAs during in vivo and in vitro cardiac hypertrophy.	International conference NextGen Genomics, Biology, Bioinformatics and Technologies, NGBT	International	jointly organized by CSIR-CCMB and Sci-Genome, Hyderabad	1- 3 OCT, 2015
10	Effect of Dietary lipids on Circadian Expression of Selected Clock Genes in Obese	International conference NextGen Genomics, Biology, Bioinformatics and Technologies,	International	jointly organized by CSIR-CCMB and Sci-	1- 3 OCT, 2015

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	Zebrafish Liver	NGBT		Genome, Hyderabad	
9	Effects of maternal triploidy on early embryonic survival, development and identification of genetic markers in hybrid triploid <i>Hemigrammuscaudovittatus</i>	Towards Sustainable Blue Economy: production, Strategies and Policies (TASBE)	International	Kerala University of Fisheries and Ocean Studies, Kerala	4th – 6th February 2016
10	Bioprospecting of macrofungi for biocolours and pharmaceuticals.	Towards Sustainable Blue Economy: production, Strategies and Policies (TASBE)	International	Kerala University of Fisheries and Ocean Studies, Kerala	4th – 6th February 2016
11	Genetic Screening of zebrafish: a novel tool for monitoring toxic effluents and urban storm water.	Towards Sustainable Blue Economy: production, Strategies and Policies (TASBE)	International	Kerala University of Fisheries and Ocean Studies, Kerala	4th – 6th February 2016
12	Selective expression of CLOCK Genes in hepatocytes of obese zebrafish.	International Conference on “In-Stem Conference on Inflammation and Tissue Homeostasis	International	Institute for Stem Cell Biology and Regenerative Medicine, National Centre for	Feb 3-5 2016

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				Biological Sciences, Bangalore,	
13	Effect of dietary lipids on circadian expression of selected clock genes in obese zebrafish	Towards Sustainable Blue Economy: Production, Strategies and Policies (TASBE)	International	Kerala University of Fisheries and Ocean Studies, Kerala	4th – 6th February 2016
14	Endocrine disruptor TributylTin induces hepatotoxicity in zebrafish	Aquatic Resources & Blue Economy"- AQUABE 2019	International	Kerala University of Fisheries and Ocean Studies, Kerala	28th to 30th November, 2019
15	Zebrafish a novel tool in regeneration biology	Aquatic Resources & Blue Economy"- AQUABE 2019	International	Kerala University of Fisheries and Ocean Studies, Kerala	28th to 30th November, 2019
16	Zebrafish a preclinical genetic Model for Finding antiobesity Drugs	Indo- UK International Virtual conference on Current Innovations and the Future of Therapeutic Developments CIFTD2020	International	Vellore Institute of Technology	1-3 June 2020

17	Expression of Selected Clock Genes in Obese ZEBRAFISH, DANIO RERIO	International Conference on Obesity, Diabetes & Cardiology ICODC 2020	International	Madurai Kamaraj University	February 25-26, 2020
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### **Membership in Professional Bodies**

<b>S.No.</b>	<b>Professional Bodies</b>	<b>Lifetime/Annual Member</b>
1.	<b>SOCIETY FOR BIOTECHNOLOGISTS (INDIA)</b>	Lifetime Member
2.	Indian Society for Cell Biologists (ISCB)	Life Time Member
3.	Indian Society for Developmental Biologists (InSDB)	Annual Member

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