

STAFF PROFILE

Name : Dr. S. ABDUL MAJEED
Designation : ASSISTANT PROFESSOR
Department : PG & RESEARCH DEPARTMENT OF ZOOLOGY
Email : cah.abdulmajeed@gmail.com; majeed.zoo@cahc.edu.in
Mobile : 9894048026
Website : www.aahl.res.in



1. Academic Qualification

Degree	Year	Subject	Institution	University
Ph.D.	2015	ZOOLOGY	C. ABDUL HAKEEM COLLEGE, MELVISHARAM	THIRUVALLUVAR UNIVERSITY
M.Phil.	2009	ZOOLOGY	C. ABDUL HAKEEM COLLEGE, MELVISHARAM	THIRUVALLUVAR UNIVERSITY
PG	2008	ZOOLOGY	C. ABDUL HAKEEM COLLEGE, MELVISHARAM	THIRUVALLUVAR UNIVERSITY
UG	2006	ZOOLOGY	C. ABDUL HAKEEM COLLEGE, MELVISHARAM	THIRUVALLUVAR UNIVERSITY

2. Work Experience

S. No.	Positions Held	Name of the Institute	From	To
1.	ASSISTANT PROFESSOR	C. ABDUL HAKEEM COLLEGE, MELVISHARAM	06.07.2015	Till date

3. Professional Recognition/Award/Prize/Certificate/Fellowship received

S. No.	Name of the Award	Awarding Agency	Year
1.	First rank with Gold medal in M.Sc., Examination	THIRUVALLUVAR UNIVERSITY, Serkkadu, Vellore	2008
2.	Junior Research Fellow (DST-INSPIRE Fellow)	Department of Science & Technology, Ministry of Science & Technology, Government of India	2010
3.	Senior Research Fellow (DST-INSPIRE Fellow)	Department of Science & Technology, Ministry of Science & Technology, Government of India	2012
4.	Dr. A.P.J. Abdul Kalam Teaching Excellence Award	Rotary Club of Chennai Serenity, Rotary Club of Chennai Sagar & Rotary Club of Chennai Millennium	2023

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4. Professional Development Programme Attended (FDP/FIP/RC/OP/PDP – More than 3 Days)

S. No.	Name of the Programme	Name of the Organizer	Duration With Date
1.	Orientation Programme	UGC-HRDC, University of Madras, Chennai, Tamil Nadu	07.11.2017 - 04.12.2017 (28 days)
2.	Refresher Course	UGC-HRDC, Bharathiar University, Coimbatore, Tamil Nadu	13.02.2019 - 05.03.2019 (21 days)
3.	Winter School	ICAR – Central Marine Fisheries Research Institute, Mandapam, Tamil Nadu	06.11.2019 - 26.11.2019 (21 days)
4.	Refresher Course	UGC-HRDC, University of Calicut, Malappuram, Kerala	16.09.2021 - 29.09.2021 (14 days)
5.	Short Course Training	ICAR - Central Institute for Research on Buffaloes, Hisar, Haryana	05.12.2022 - 14.12.2022 (10 days)
6.	Refresher Course	UGC - HRDC, Pondicherry University, Pondicherry	01.09.2023 - 14.09.2023 (14 days)

4.1 Membership of Professional Bodies

Name of the Professional Body	Member Type	Year
BMC Microbiology, BCM Springer Nature	Reviewer	2023
Acta Tropica, Elsevier	Reviewer	2021
Aquaculture, Elsevier	Reviewer	2020
Methods, Elsevier	Reviewer	2023
Aquaculture International, Springer	Reviewer	2022
Molecular and Cellular Biochemistry, Springer	Reviewer	2023
Environmental Science and Pollution Research, Springer	Reviewer	2023

4.2 Membership in Committee(s)

Name of the Committee	Designation	Year
UG & PG Board of Studies	Member	Since 2015
Research Committee	Member	Since 2018
Internal Quality Assurance Cell	Member	Since 2020

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5. Research & Development

5.1 List of Projects (Title, Funding agency, Amount Generated)

Year	Title of the Project	Funding Agencies	Amount	Status
10.03.2017	National Repository of Fish Cell lines in NBFGR (Phase-II) and access centre in C. Abdul Hakeem College and research on application of cell lines in virology, toxicology and gene expression studies (No.BT/PR13908/AAQ/3/733/2015)	Department of Biotechnology, Government of India, New Delhi, India	133 Lakhs	Completed
05.02.2018	Attempt to develop diagnostics and preventive measure for suspected fish viral diseases encountered in Assam (No.BT/PR17911/AAQ/3/816/2016)	Department of Biotechnology, Government of India, New Delhi, India	57 Lakhs	Completed
24.09.2019	Production, nano-delivery and validation of viral vaccine against nodavirus of fish (No.BT/PR28250/AAQ/3/910/2018)	Department of Biotechnology, Government of India, New Delhi, India	59 Lakhs	Completed
12.03.2021	Development of Vaccines against Tilapia Lake Virus (TiLV) and Cyprinid herpesvirus-2 of fish in Indian Aquaculture System (No.BT/PR35775/AAQ/3/969/2019)	Department of Biotechnology, Government of India, New Delhi, India	63.51 Lakhs	On-going
02.09.2021	Cell and Developmental Biology of Marine Organisms under Marine Bioresource and Biotechnology Network Programme (No.BT/PR40452/NDB/39/750/2020)	Department of Biotechnology, Government of India, New Delhi, India	326.19 Lakhs	On-going
21.11.2022	DBT Funded National Repository of Fish Cell lines in C. Abdul Hakeem College (Phase-II) and research on application of cell lines in virology and biomedical Research (No.BT/PR41899/AAQ/3/1006/2021)	Department of Biotechnology, Government of India, New Delhi, India	54.66 Lakhs	On-going

5.1.1 Professional Experience:

- ✓ **Cell Biology:** Development and characterization of cell lines; Cryopreservation and retrieving of established cell lines, Surveillance of viruses, Virus infectivity and Titre studies (TCID₅₀), Viral purification by Ultracentrifugation, Gene-expression studies, Toxicology, Genotoxicology, Karyotyping and cell growth kinetics.
- ✓ **Immunostimulants:** Development of various Recombinant and Herbal immunostimulants to control WSSV, WTD, TiLV, TiPV, KHV and fish Nodavirus.

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- ✓ Experience in handling of all the bacterial and viral pathogens of fish and shrimp in the Indian aquaculture systems.
- ✓ Trained to advanced cell culture, molecular biology and immunological techniques to post graduate, Ph.D. scholar, faculties and industrialists from various state and national institutions (CAHCET, CUSAT, CIFE, CIBA, RGCA, Agharkar Research Institute, Guwahati and VIT University).
- ✓ **Technical Manager:** To audit NABL accredited, Aquatic Animal Health Laboratory, CAHC (ISO/IEC 17025:2017).

5.2 List of Papers published (Name, Title, Journal Name, Volume, Year, Page No) (Link if any)

S. No	Name of the Authors	Title of the Paper	Journal Name	Vol., Year, Page No	Link if any
1.	Furqaan, V.M., Mithra, S., Majeed, S.A., Anver Basha, K., Sahul Hameed, A.S. Safiullah, S.M.,	Alginate/CuO-gC3N4 composite: a novel, reusable, non-toxic photocatalyst for methylene blue degradation.	Environmental Science Pollution Research	-	https://doi.org/10.1007/s11356-024-35227-0
2.	Mithra S., Abdul Majeed, S., Nafeez Ahmed, A., Suryakodi, S., Rajkumar, V., Badhusha, A., Kanimozhi, K., Abdul Wazith, M.J., Taju, G., Sahul Hameed, A.S.	Application of neuronal and retinal cell lines of <i>Lates calcarifer</i> for propagation of Nervous necrosis virus	Aquaculture International	2024; 1-19	https://doi.org/10.1007/s10499-024-01645-7
3.	Mithra S., Abdul Majeed, S., Mujthaba Aatif, A., Suryakodi, S., Nafeez Ahmed, A., Taju, G., Abdul Wazith, M.J., Ramesh kumar, P., Sahul Hameed, A.S.	Application of novel gill cell line from <i>Lates calcarifer</i> for recognizing metals using probes	Biological Trace Element Research	2024; 1-16	https://doi.org/10.1007/s12011-024-04229-x
4.	Mithra S., Abdul Majeed, S., Taju, G., Vimal, S., Sahul Hameed, A.S.	Development and characterization of primary cell culture from the spinal cord of Asian seabass, <i>Lates calcarifer</i>	In Vitro Cellular & Developmental Biology – Animal	2024; 1.7	https://doi.org/10.1007/s11626-024-00938-8

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5.	Abdul Wazith, M.J., Taju, G., Abdul Majeed, S., Mithra, S., Nafeez Ahmed, A., Badhusha, A, Rajkumar, V., Sahul Hameed, A.S.	A comparative study on targeted gene expression in zebrafish and its gill cell line exposed to chlorpyrifos	In Vitro Cellular & Developmental Biology – Animal	2024; 60(4):397- 410	https://link .springer.c om/article/ 10.1007/s1 1626-024- 00892-5
6.	Mujthaba Aatif, A., Selva Kumar, R., Leyana K Shaji, Pravinkumar Selvam, S., Bhaskar, R., Abdul Majeed, S., Sahul Hameed, A.S., Ashok Kumar, S.K.	A dual responsive novel bipyridyl carbohydrazide Schiff base as a colorimetric- fluorescent probe for In ³⁺ and Al ³⁺ ions and its potential applications	Sensors & Diagnostics.	2024; 3(3):445- 467	https://doi. org/10.103 9/D3SD00 291H
7.	Dua, A., Selvam, P., Abdul Majeed, S., Ashok Kumar, S.K., Sharma, H.K., Ramasamy, S.K.	Diaminomaleonitrile Schiff base with phenothiazine aldehyde as multimode chemosensor for copper ions and its application	Journal of Photochemistry and Photobiology A: Chemistry. 447,	2024; (447):1152 19	https://doi. org/10.101 6/j.jphoto chem.2023. 115219
8.	Priyamvadan, A., Thirugnanam, S., Abdu Majeed, S., Vimal, S., Sahul Hameed, A.S., Lakkaboyana, S.K., Kumar, V.	Chitosan PVA and Acalypha indica-based nanoformulation for antimicrobial activity against <i>Staphylococcus aureus</i>	Polymer Bulletin	2024:(81):8 141-8158	https://doi. org/10.100 7/s00289- 023- 05094-9
9.	Suryakodi, S., Mithra, S., Nafeez Ahmed, A., Kanimozhi, K., Rajkumar, V., Taju, G., Abdul Majeed, S., Sahul Hameed, A.S.	Development of three- dimensional (3D) spheroid culture system from rainbow trout kidney cell line (RTK) for in vitro production of fish viral pathogen	Aquaculture International	2024; 1.19	https://doi. org/10.100 7/s10499- 024- 01414-6
10.	Nafeez Ahmed, A., Mithra, S., Suryakodi, S., Taju, G., Abdul Wazith, M.J., Kanimozhi, K., Rajkumar, V., Badhusha, A., Abdul Majeed, S., Sahul Hameed, A.S.	Development and characterization of brain cell line from <i>Trachinotus blochii</i> and its application in virological and gene expression studies	Journal of Fish Diseases	2024; 47(5), e13927	https://doi. org/10.111 1/jfd.1392 7

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11.	Padhiary, S., Paul, A., Tripathy, D.K., Nayak, D., Mohanty, J., Pillai, D., Kumar, V.R., Krishnan, R., Haridas, L., Majeed, S.A., Taju, G., Sahul Hameed, A.S., Sahoo, P.K.	Current understanding of <i>Cyprinid herpesvirus 2</i> , and prospects in its management.	Indian J Anim Health	2023; 62(2), 49-60	https://doi.org/10.36062/ijah.2023.spl.02523
12.	Rehan, K. M., Taju, G., Mithra, S., Majeed, S. A., Basha, K. A., Hameed, A. S. S., & Safiullah, S. M.	Reusable Polymer Ternary Nanocomposite for the Removal of Cationic Dyes—Adsorption Isotherms, Kinetics, Thermodynamic and Toxicity Studies	Water, Air, & Soil Pollution	2023; 234(5), 314	https://doi.org/10.1007/s11270-023-06320-w
13.	Adhikary, A., Hazarika, G., Das, R., Sarma, K., Vimal, S., Majeed, S.A., Hameed, A.S., Sarma, D., 2023.	Isolation, identification and characterisation of <i>Aeromonas veronii</i> from diseased Indian major carp, <i>Cirrhinus mrigala</i>	Aquaculture International	2023; 31, 997-1010.	https://doi.org/10.1007/s10499-022-01012-4
14.	Aatif, A.M., Kumar, R.S., Joseph, S., Vetriarasu, V., Majeed, S.A., Kumar, S.A.,	Pyridinecarbohydrazid e-based fluorescent chemosensor for In ³⁺ ions and its applications in water samples, live cells, and zebrafish imaging	Journal of Photochemistry and Photobiology A: Chemistry,	2023;(434), 114257.	https://doi.org/10.1016/j.jphotochem.2022.114257
15.	Vinita Bhardwaj, Dhvani A. Patel, S. Abdul Majeed, A. S. Sahul Hameed, Mujthaba A. Aatif, Ashok S. K. Kumar, Suban K Sahoo	Probing Biothiols Using a Red-Emitting Pyridoxal Derivative by Adopting Copper (II) Displacement Approach and Cell Imaging	Chemistry & Biodiversity	2022:19(9), e202200425.	https://doi.org/10.1002/cbdv.202200425
16.	Priya, P., Anbarasu, M., Christina, V.S., Abdul Majeed, S., Sivamurugan, V., Lakshmi Sundaram, R.,	Isolation of Potential Compound from the Leaves of <i>Elytraria acaulis</i> and Evaluating Its Therapeutic Properties Using <i>in Vitro</i> Studies against Ovarian Cancer.	Applied Biochemistry & Biotechnology	2022:194(12), 5607-5626.	https://doi.org/10.1007/s12010-022-04048-7

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17.	Kumar, S.S., Jamalpure, S., Ahmed, A.N., Taju, G., Vimal, S., Majeed, S.A., Suryakodi, S., Rahamathulla, S., Paknikar, K.M., Rajwade, J.M. and Hameed, A.S.	An Indigenous, Field- Deployable, Lateral Flow Immunochromatograp hic Assay Rapidly Detects Infectious Myonecrosis in Shrimp, <i>Litopenaeus vannamei</i> .	Marine Biotechnology	2022; 24(6), 1110-1124	https://doi.org/10.1007/s10126-022-10172-6
18.	Mohamed Ashfaque, P., Nafeez Ahmed, A., Mohammed Safiullah, S., Taju, G., Abdul Majeed, S., Sahul Hameed, A.S., Anver Basha, K	Toxicological assessment of functional polymer with single-walled carbon nanotubes in zebrafish embryos and its gill cell line	Chemosphere	2022; 303(1), 134891	https://doi.org/10.1016/j.chemosphere.2022.134891
19.	Badhusha, A., Nafeez Ahmed, A., Suryakodi, S., Abdul Wazith, M.J., Mithra, S., Kanimozhi, K., Abdul Majeed, S., Taju, G., Sahul Hameed, A.S	First report on the occurrence of cyprinid herpesvirus 3 (CyHV- 3) in koi carp (<i>Cyprinus carpio koi</i>) in India.	Journal of fish diseases	2022; 45(8), 1087-1098	https://doi.org/10.1111/jfd.13631
20.	Suryakodi, S., Nafeez Ahmed, A., Badhusha, A., Santhosh Kumar, S., Sivakumar, S., Abdul Majeed, S., Taju, G., Rahamathulla, S., Sahul Hameed, A.S	First report on the occurrence of white spot syndrome virus (WSSV), infectious myonecrosis virus (IMNV) and <i>Enterocytozoon hepatopenaei</i> (EHP) in <i>Penaeus vannamei</i> reared in freshwater systems.	Journal of fish diseases	2022; 45(5), 699- 706	https://doi.org/10.1111/jfd.13595
21.	Nafeez Ahmed, A., Abdul Majeed, S., Taju, G., Vimal, S., Suryakodi, S., Badhusha, A., Abdul Nazar, A.K., Ramesh Kumar, P., Paknikar, K.M., Jyutika, M.R., Sahul Hameed, A.S.	Development and characterization of five novel cell lines from snubnose pompano, <i>Trachinotus blochii</i> (Lacepede, 1801) and their application in gene expression and virological studies.	Journal of fish diseases	2021; 45(1), 121- 139	https://doi.org/10.1111/jfd.13542
22.	Shabana, M. S., Taju, G., Majeed, A., Nafeez Ahmed, A., Karthika, M., Ramasubramanian, V., Sahul Hameed, A.S.	Preparation and evaluation of mesoporous silica nanoparticles loaded quercetin against bacterial infections in <i>Oreochromis niloticus</i> .	Aquaculture Reports	2021; 21, 100808	https://doi.org/10.1016/j.aqrep.2021.100808

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23.	Santhoshkumar, S., Sivakumar, S., Abdul Majeed, S., Vimal, S., Taju, G., Sahul Hameed, A.S.	<i>In vitro</i> propagation of infectious myonecrosis virus (IMNV) in C6/36 mosquito cell line.	Journal of Fish Diseases	2021; 44(7), 987-992	https://doi.org/10.1111/jfd.13359
24.	Thamizhvanan, S., Nafeez Ahmed A., Vinoth Kumar, D., Vimal, S., Abdul Majeed, S., Taju, G., Hauton, C., Sahul Hameed, A.S.	Silencing of Prophenoloxidase (proPO) gene in freshwater prawn, <i>Macrobrachium rosenbergii</i> makes susceptible to white spot syndrome virus (WSSV)	Journal of Fish Diseases	2021; 44(5), 573-584	https://doi.org/10.1111/jfd.13297
25.	Suryakodi, S., AbdulMajeed, S., Taju, G., Vimal S., Sivakumar, S., Nafeez Ahmed, A., Feroz Ahmad Shah., Saqib Ahmad Bhat., Dandadhar Sarma., Ajima Begum., Sahul Hameed, A.S.	Development and characterization of novel cell lines from kidney and eye of rainbow trout, <i>Oncorhynchus mykiss</i> for virological studies	Aquaculture	2021; 532(15)	https://doi.org/10.1016/j.aquaculture.2020.736027
26.	Mujthaba Aatif, A., Selva Kumar, R., Abdul Majeed, S., Ashok Kumar, S.K.,	A turn-on fluorescent probe for Lu3+ recognition and bio-imaging in live cells and zebrafish	Analytical Methods	2021; 13(2), 212-221	https://doi.org/10.1039/D0AY02060E
27.	Nanthini, R., Abdul Majeed, S., Vimal, S., Taju, G., Sivakumar, S., Santhosh Kumar, S., Devika Pillai, Sneha, K.G., Rakesh, C.G., Sahul Hameed, A.S.	<i>In vitro</i> propagation of tilapia lake virus in cell lines developed from <i>Oreochromis mossambicus</i>	Journal of Fish Diseases	2019; 42(11), 1543-1552	https://doi.org/10.1111/jfd.13075
28.	Thamizhvanan, S., Sivakumar, S., Santhosh kumar, S., Vinoth Kumar, D., Suryakodi, S., Balaji, K., Rajkumar, T., Vimal, S. Abdul Majeed, S., Taju, G., Sahul Hameed, A. S.	Multiple infections caused by white spot syndrome virus (WSSV) and <i>Enterocytozoon hepatopenaei</i> (EHP) in pond reared <i>Penaeus vannamei</i> in India and multiplex PCR for their simultaneous detection	Journal of Fish Diseases	2019; 42(3), 447-454	https://doi.org/10.1111/jfd.12956

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29.	Nathiga Nambi, K.S., Abdul Majeed, S., Taju, G., Sivakumar, S., Sahul Hameed, A.S.	Zebrafish fin-derived fibroblast cell line: as model for <i>in vitro</i> wound healing	Journal of Fish Diseases	2019; 42 (2), 573-584	https://doi.org/10.1111/jfd.12965
30.	Ngairangbam Sushila, Sahul Hameed, A.S., Pani Prasad, K., Abdul Majeed, S., Gayatri Tripathi,	<i>In vitro</i> screening of selected antiviral drugs against betanodavirus	Journal of Virological Methods	2018; 259, 66-73	https://doi.org/10.1016/j.jviro.met.2018.06.005
31.	Taju, G., Vinoth Kumar, D., Abdul Majeed, S., Vimal, S., Tamizhvanan, S., Santhosh Kumar, S., Sivakumar, S., Nazeer Basha, A., Haribabu, P., Kannabiran, K., Sahul Hameed, A.S.	Delivery of viral recombinant VP28 protein using chitosan tripolyphosphate nanoparticles to protect the whiteleg shrimp, <i>Litopenaeus vannamei</i> from white spot syndrome virus infection	International Journal of Biological Macromolecules	2018; 107(A), 1131-1141	https://doi.org/10.1016/j.ijbiomac.2017.09.094
32.	Sivakumar, S., Vimal, S., Abdul Majeed, S., Santhosh Kumar, S., Taju, G., Madan, N., Rajkumar, T., Thamizhvanan, S., Shamsudheen, K.V., Vinod, S., Sridhar, S., Sahul Hameed, A.S.	A new strain of White spot syndrome virus (WSSV) affecting <i>Litopenaeus vannamei</i> in Indian shrimp farms	Journal of fish diseases	2018; 41(7), 1129-1146	https://doi.org/10.1111/jfd.12811
33.	Manimaran, M., Rajkumar, T., Vimal, S., Taju, G., Abdul Majeed, S., Sahul Hameed, A.S., Kannabiran, K.	Antiviral activity of 9(10H)-Acridanone extracted from marine <i>Streptomyces fradiae</i> strain VITMK2 in <i>Litopenaeus vannamei</i> infected with white spot syndrome virus	Aquaculture,	2018; 488, 66-73	https://doi.org/10.1016/j.aquaculture.2018.01.032
34.	Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sahul Hameed, A.S.	Application of fish cell lines for evaluating the chromium induced cytotoxicity, genotoxicity and oxidative stress	Chemosphere	2017; 184, 1-12	https://doi.org/10.1016/j.chemosphere.2017.05.151

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35.	Taju G., Madan N., Abdul Majeed S., Rajkumar T., Farook M.A., Vimal S., Nazeer Basha A., Sahul Hameed A.S	Distribution of recombinant VP28 protein in tissues and its immunomodulatory effect against white spot syndrome virus in whiteleg shrimp, <i>Litopenaeus vannamei</i> (Boone, 1931)	Aquaculture International	2017; 1761-1776	https://doi.org/10.1007/s10499-017-0155-9
36.	Rajkumar T., Taju G., Abdul Majeed S., Sinwan Sajid M., Santhosh Kumar S., Sivakumar S., Thamizhvanan S., Vimal S., Sahul Hameed A.S.	Ontogenetic changes in the expression of immune related genes in response to immunostimulants and resistance against white spot syndrome virus in <i>Litopenaeus vannamei</i>	Developmental and Comparative Immunology	2017; 76, 132-142	https://doi.org/10.1016/j.dci.2017.06.001
37.	Nathiga Nambi, K.S., Abdul Majeed, S., Taju, G., Sridhar Sivasubbu, Sarath Babu, V., Sahul Hameed, A.S.	Effects of nicotine on zebrafish: a comparative response between a newly established gill cell line and whole gills	Comparative Biochemistry and Physiology Part C.	2017; 195, 68-77	https://doi.org/10.1016/j.cbpc.2017.02.013
38.	Sahul Hameed, A.S., Abdul Majeed, S., Vimal, S., Madan, N., Rajkumar, T., Santhoshkumar, S., Sivakumar, S.,	Studies on the occurrence of infectious myonecrosis virus in pond-reared <i>Litopenaeus vannamei</i> (Boone, 1931) in India	Journal of Fish Diseases	2017; 40(12), 1823-1830.	https://doi.org/10.1111/jfd.12655
39.	Santhoshkumar, S., Sivakumar, S., Vimal, S., Abdul Majeed, S., Taju, G., Haribabu, P., Uma, A., Sahul Hameed, A.S.	Biochemical changes and tissue distribution of Enterocytozoon hepatopenaei (EHP) in naturally and experimentally EHP-infected whiteleg shrimp, <i>Litopenaeus vannamei</i> (Boone, 1931), in India	Journal of fish diseases	2016; 40(4), 529-539	https://doi.org/10.1111/jfd.12530
40.	Mohamed A Farook, Sugumar Vimal, Nithiyandam Madan, Gani Taju, Seepoo Abdul Majeed, Kalaiselvi S N Nambi, Gnanavel Balasubramanian, Azeez S Sahul Hameed	Immunomodulatory effect of <i>Cynodon dactylon</i> against white tail disease of giant freshwater prawn, <i>Macrobrachium rosenbergii</i> (de Man, 1879)	Aquaculture Research	2015; 47(11), 3421-3431	https://doi.org/10.1111/are.12789

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41.	Kalaiselvi S. Nathiga Nambi, Seepoo Abdul Majeed, Gani Taju, Sridhar Sivasubbu, Nithiyanandam Sundar Raj, Nithiyanandam Madan, Azeez Sait Sahul Hameed	Development and Use of Retinal Pigmented Epithelial Cell Line from Zebrafish (<i>Danio rerio</i>)	Zebrafish	2015; 12(1), 21-32	https://doi.org/10.1089/zeb.2014.1012
42.	Vimal, S., Madan, N., Farook, M.A., Nambi, K.S.N., Abdul Majeed, S., Rajkumar, T., Venu, S., Thirunavakarasu, A.R., Sahul Hameed, A.S.,	Production of recombinant vaccine using capsid gene of nodavirus to protect Asian sea bass, <i>Lates calcarifier</i> (Bloch, 1790)	Aquaculture	418-419, 148-154.	https://doi.org/10.1016/j.aquaculture.2013.10.017
43.	Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sahul Hameed, A.S.	<i>In vitro</i> cytotoxic, genotoxic and oxidative stress of Cypermethrin on five fish cell lines. Pesticides Biochemistry and Physiology	Pesticides Biochemistry and Physiology	2014; 113, 15-24	https://doi.org/10.1016/j.pestbp.2014.06.006
44.	Taju, G., Madan, N., Abdul Majeed, S., Raj Kumar, T., Thamizvanan, S., Otta, S.K., Sahul Hameed, A.S.	Immune responses of white leg shrimp, <i>Litopenaeus vannamei</i> (Boone, 1931) to bacterially expressed dsRNA specific to VP28 gene of white spot syndrome virus	Journal of fish diseases	2014; 38(5), 451-465	https://doi.org/10.1111/jfd.12256
45.	Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sahul Hameed, A.S.	<i>In vitro</i> assay for the toxicity of silver nanoparticles using heart and gill cell lines of <i>Catla catla</i> and gill cell line of <i>Labeo rohita</i>	Comparative Biochemistry and Physiology - Part C	2014; 161, 41-52	https://doi.org/10.1016/j.cbpc.2014.01.007
46.	Abdul Majeed, S., Nambi, K.S.N., Taju, G., Sahul Hameed, A.S.	Isolation, propagation, characterization, cryopreservation and application of novel cardiovascular endothelial cell line from <i>Channa striatus</i> (Bloch, 1793)	Cell Biochemistry and Biophysics	2014; 71(2), 601-616	https://doi.org/10.1007/s12013-014-0240-x

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47.	Vimal, S., Farook, M.A., Madan, N., Abdul Majeed, S., Nambi, K.S.N., Taju, G., Sundar raj, N., Venu, S., Subburaj, R., Thirunavukkarasu, A.R., Sahul Hameed, A.S.	Development, distribution and expression of a DNA vaccine against nodavirus in Asian Seabass, <i>Lates calcarifier</i> (Bloch, 1790)	Aquaculture Research	2014; 47(4), 1209-1220	https://doi.org/10.1111/are.12578
48.	Abdul Majeed, S., Nambi, K.S.N., Taju, G., Vimal, S., Venkatesan, C., Sahul Hameed, A.S.	Cytotoxicity, genotoxicity and oxidative stress of malachite green on kidney and gill cell lines of freshwater air breathing fish <i>Channa striata</i> (Bloch, 1793)	Environmental Science and Pollution Research	2014; 23(21), 13539-13550	https://doi.org/10.1007/s11356-014-3279-8
49.	Farook, M.A., Sundar Raj, N., Madan, N., Vimal, S., Abdul Majeed, S., Taju, G., Rajkumar, T., Santhoshkumar, S., Sivakumar, S., Sahul Hameed, A.S.	Immunomodulatory effect of recombinant <i>Macrobrachium rosenbergii</i> nodavirus capsid protein (r-MCP) against white tail disease of giant freshwater prawn, <i>Macrobrachium rosenbergii</i> (de Man, 1879)	Aquaculture	2014; 433, 395-403	https://doi.org/10.1016/j.aquaculture.2014.07.004
50.	Abdul Majeed, S., Nambi, K.S.N., Taju, G., Sarath Babu, V., Farook, M.A., Sahul Hameed, A.S.	Development and characterization of a new gill cell line from air breathing fish <i>Channa striatus</i> (Bloch 1793) and its application in toxicology: Direct comparison to the acute fish toxicity	Chemosphere	2014; 96, 89-98	https://doi.org/10.1016/j.chemosphere.2013.07.045
51.	Venkatesan, C., Sarathi, M., Balasubramanian, G., John Thomas, Balachander, V., Sarath Babu, V., Mohammed Yusuf Bilal, S., Abdul Majeed, S., Madan, N., Sundar Raj, N., Vimal, S., Nambi, K.S.N., Sahul Hameed, A.S.,	Antivenom activity of triterpenoid (C ₃₄ H ₆₈ O ₂) from <i>Leucas aspera</i> Linn. against <i>Naja naja naja</i> venom induced toxicity: Antioxidant and histological study in mice	Human & Experimental Toxicology	2014; 33(4), 336-359	https://doi.org/10.1177/0960327113494901

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52.	Venkatesan, C., Sarathi, M., Balasubramanian, G., Saravanan, A., Vimal, S., Madan, N., Abdul Majeed, S., Sundar Raj, N., Sahul Hameed, A.S., Sarath Babu, V.,	Detection and neutralization of cobra venom using rabbit antiserum in experimental envenomated mice	Human & Experimental Toxicology	2014; 33(7), 772- 782	https://doi.org/10.1177/0960327113511474
53.	Madan, N., Rajkumar, T., Sundar Raj, N., Farook, M.A., Nambi, K.S.N., Abdul Majeed, S., Sahul Hameed, A.S.	Tissue distribution of Hepatopancreatic Parvo-like Virus (HPV) of shrimp infreshwater rice-field crab, <i>Paratelphusa hydrodomous</i> (Herbst)	Journal of Fish Diseases	2014; 37(11), 969-980	https://doi.org/10.1111/jfd.12183
54.	Madan, N., Sundar Raj, N., Farook, M.A., Vimal, S., Venkatesan, C., Abdul Majeed, S., Nambi, K.S.N., Sahul Hameed, A.S.,	Partial cloning and production of polyclonal antiserum against recombinant capsid protein of Hepatopancreatic Parvovirus (HPV) and its application for diagnostics in penaeid shrimp	Process Biochemistry	2013; 48(12), 1893-1898.	https://doi.org/10.1016/j.procbio.2013.09.014
55.	John Thomas, Madan, N., Nambi, K.S.N., Abdul Majeed, S., Nazeer Basha, A., Sahul Hameed, A.S.,	Studies on ulcerative disease caused by <i>Aeromonas caviae</i> - like bacterium in Indian catfish, <i>Clarias batrachus</i> (Linn)	Aquaculture	2013; 376- 379, 146- 150	https://doi.org/10.1016/j.aquaculture.2012.11.015
56.	Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sahul Hameed, A.S.	Development and characterization of cell line from the gill tissue of <i>Catla catla</i> (Hamilton, 1822) for toxicological studies	Chemosphere	2013; 90, 2172-2180	https://doi.org/10.1016/j.chemosphere.2012.11.027
57.	Abdul Majeed S., Nambi K.S.N., Taju G., Sahul Hameed A.S.	Development, characterization and application of a new fibroblastic-like cell line from kidney of a freshwater air breathing fish <i>Channa striatus</i> (Bloch, 1793)	Acta Tropica	2013; 127, 25– 32	https://doi.org/10.1016/j.chemosphere.2013.07.045

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58.	Abdul Majeed, S., Nambi, K.S.N., Taju, G., Sundar Raj, N., Madan, N., Sahul Hameed, A.S.	Establishment and characterization of permanent cell line from gill tissue of <i>Labeo rohita</i> (Hamilton) and its application in gene expression and toxicology	Cell Biology and Toxicology	2013; 29, 59-73	https://doi.org/10.1007/s10565-012-9237-7
59.	Vimal, S., Abdul Majeed, S., Nambi, K.S.N., Madan, N., Farook, M.A., Venkatesan, C., Taju, G., Venu, S., Thirunavukkarasu, A.R., Sahul Hameed, A.S	Delivery of DNA vaccine using Chitosan-Tripolyphosphate (CS/TPP) nanoparticles in Asian seabass (<i>Lates calcarifer</i>) for protection against betanodavirus infection	Aquaculture	2013; 420–421; 240–246	https://doi.org/10.1016/j.aquaculture.2013.11.017
60.	Farook, M.A., Madan, N., Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sundar Raj, N., Vimal, S., Sahul Hameed, A.S.	Production of recombinant capsid protein of <i>Macrobrachium rosenbergii</i> nodavirus (r-MCP43) of <i>Macrobrachium rosenbergii</i> for immunological diagnostic methods	Journal of Fish Diseases	2013; 37(8), 703-710	https://doi.org/10.1111/jfd.12156
61.	Madan, N., Nambi, K.S.N., Abdul Majeed, S., Taju, G., Sundar Raj, N., Farook, M.A., Vimal, S., Sahul Hameed, A.S.	<i>In Vitro</i> Propagation of Hepatopancreatic Parvo-like Virus (HPV) of Shrimp in C6/36 (<i>Aedes albopictus</i>) cell line	Journal of Invertebrate Pathology	2013; 112, 229-235	https://doi.org/10.1016/j.jip.2012.11.015
62.	Sarath Babu, V., Abdul Majeed, S., Nambi, K.S.N., Taju, G., Madan, N., Sundar Raj, N., Sahul Hameed A.S.	Comparative nodaviral replication efficiency in ten Indian fish cell lines	Archives of Virology	2013; 158(6), 1367-75	https://doi.org/10.1007/s00705-013-1617-7
63.	Taju, G., Abdul Majeed, S., Nambi, K.S.N., Sarath Babu, V., Vimal, S., Kamatchiammal, S., Sahul Hameed, A.S.	Comparison <i>in vitro</i> and <i>in vivo</i> acute assays in <i>Etroplus suratensis</i> (Bloch, 1790) and its three cell lines in relation to tannery effluent	Chemosphere	2012; 87, 55–61	https://doi.org/10.1016/j.chemosphere.2011.11.056

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64.	Sarath babu, V., Chandra, V., Nambi, K.S. N., Majeed, S.A., Taju, G., Patole, M.S. and Hameed, A.S.S.	Development and characterization of novel cell lines from <i>Etroplus suratensis</i> and their applications in virology, toxicology and gene expression	Journal of Fish Biology	2012; 80, 312–334	https://doi.org/10.1111/j.1095-8649.2011.03167.x
65.	Nathiga Nambi, K.S., Abdul Majeed, S., Sundar Raj, N., Taju, G., Madan, N., Vimal, S. Sahul Hameed, A.S.	<i>In vitro</i> white spot syndrome virus (WSSV) replication in explants of heart of freshwater crab, <i>Paratelphusa hydrodomous</i>	Journal of Virological Methods	2012; 183, 186– 195	https://doi.org/10.1016/j.jviromet.2012.04.013
66.	Vimal, S., Taju, G., Nathiga Nambi, K.S., Abdul Majeed, S., Sarath Babu, V., Ravi, M. Sahul Hameed, A.S.	Synthesis and characterization of CS/TPP nanoparticles for oral delivery of gene in fish	Aquaculture	2012; 358–359, 14–22	https://doi.org/10.1016/j.aquaculture.2012.06.012
67.	Sundar raj, N., Nambi, K.S.N., Abdul Majeed, S., Taju, G., Vimal, S., Farook, M.A. and Sahul Hameed, A.S.	High efficacy of WSSV replication in tissues of freshwater rice-field crab, <i>Paratelphusa hydrodomous</i> (Herbst)	Journal of Fish Disease	2012; 35(12), 917-925.	https://doi.org/10.1111/j.1365-2761.2012.01434.x

5.2.1 Sequence(S) Deposited at GenBank, NCBI

Sl. No.	GenBank Accession No.	Authors	Name of the Gene	Year of Submission
1.	KC297218.1	Taju,G., Abdul Majeed,S., Nambi,K.S. and Sahul Hameed,A.S.	<i>Catla catla</i> Mitochondrial ribosomal RNA	2013
2.	NM_001081689.1	Nathiga Nambi KS, Abdul Majeed S, Taju G., Sivasubbu S, Sarath Babu V, Sahul Hameed AS.	<i>Danio rerio</i> carbonic anhydrase XVa (ca15a), mRNA	2017
3.	MT080174.1	Sahul Hameed,A., Vinoth Kumar,D., Vimal,S., Abdul Majeed,S., Taju,G., Santhosh Kumar,S., Sivakumar,S. and Thamizhvanan,S.	<i>Cyprinid herpesvirus 2</i> isolate CHV2-AAHL-01 major capsid protein gene, partial cds	2020
4.	OK157447.1	Nafeez Ahmed,A., Abdul Majeed,S., Taju,G. and Sahul Hameed,A.	<i>Trachinotus blochii</i> isolate mitochondrial cytochrome oxidase subunit 1 gene	2021
5.	OM811978.1	Taju,G., Badhusha,A., Nafeez Ahmed,A., Suryakodi,S., Abdul	<i>Cyprinid herpesvirus 3</i> isolate KHV thymidine kinase (TK) gene, partial cds	2022

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		Majeed,S., Abdul Wazith,M. and Sahul Hameed,A.		
6.	OR044534.1	Badhusha,A., Taju,G., Abdul Majeed,S., Nafeez Ahmed,A., Mitra, S. and Sahul Hameed, A.S	Tilapia parvovirus isolate AAHL_INDIA/2023 nonstructural protein gene, partial cds	2023
7.	PP355779.1	Nafeez Ahmed,A., Suryakodi,S., Taju,G., Abdul Majeed,S. and Sahul Hameed,A.S.	Synthetic construct calcitonin gene, partial cds	2024
8.	PP777385.1	Rajkumar,V., Taju,G., Abdul Majeed,S., Nafeez Ahmed,A., Suryakodi,S., Sahul Hameed,A., Philip Samuel,R., Govindarajan,P. and Gowri Sankar,S.	<i>Orientia tsutsugamushi</i> isolate AAHL_ST2 56 kDa type specific antigen gene, partial cds.	2024
9.	PP780842.1	Rajkumar,V., Taju,G., Abdul Majeed,S., Nafeez Ahmed,A., Sahul Hameed,A., Philip Samuel,P., Govindarajan,R. and Gowri Sankar,S.	<i>Orientia tsutsugamushi</i> isolate AAHL_ST2 56 kDa type specific antigen gene, partial cds.	2024
10.	PP777386.1	Rajkumar,V., Taju,G., Abdul Majeed,S., Nafeez Ahmed,A., Sahul Hameed,A., Philip Samuel,P., Govindarajan,R. and Gowri Sankar,S.	<i>Orientia tsutsugamushi</i> isolate AAHL_ST3 56 kDa type specific antigen gene, partial cds.	2024
11.	PQ072789.1	Mithra,S., Abdul Majeed,S., Taju,G., Nafeez Ahmed,A. and Sait Sahul Hameed,A.	<i>Lates calcarifer</i> isolate Mitochondrion large subunit ribosomal RNA gene, partial sequence	2024

5.3 Detail of patents.

Year	Title of the Patent	Status

5.4 List of Books/Reports/Chapters/General articles etc. (Author, Chapter Title, Book Title, Publisher, Year, ISBN/ISSN) (Link if any)

Year	Name of the Authors	Title of the Book/Chapter	Publisher	ISBN/ISSN

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5.5 List of Paper Presentations in National/International Seminar/Conference (Paper Title, Seminar/Conference, Place, Date)

Year	Title of the Paper	Name of the Seminar/Conference	Place	Date
2011	Investigation of the propagation efficiency of fish cell lines to fish nodavirus	8 th Symposium on Diseases in Asian Aquaculture	Fish Health Section, Asian Fisheries Society and College of Fisheries, Mangalore, Karnataka	21.11.2011 - 25.11.2011
2011	CS/TPP nanoparticles: preparation, characterization and application as oral gene delivery	8 th Symposium on Diseases in Asian Aquaculture	Fish Health Section, Asian Fisheries Society and College of Fisheries, Mangalore, Karnataka	21.11.2011 - 25.11.2011
2012	Synthesis and characterization of CS/TPP nanoparticles for oral delivery of gene in shrimp	Indo-UK Conference Shrimp Aquaculture & Innovative Solutions	Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India	25.01.2012 - 26.01.2012
2012	Freshwater crab, <i>Paratelphusa hydrodomous</i> : an alternative host for replication of white spot syndrome virus (WSSV) of shrimp	Indo-UK Conference Shrimp Aquaculture & Innovative Solutions	Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India	25.01.2012 - 26.01.2012
2012	<i>In vitro</i> White spot syndrome virus (WSSV) replication in heart explants of freshwater crab, <i>Paratelphusa hydrodomous</i>	Indo-UK Conference Shrimp Aquaculture & Innovative Solutions	Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India	25.01.2012 - 26.01.2012
2017	Surveillance of fish and shellfish diseases in selected districts of Tamil Nadu, Andhra Pradesh, West Bengal and Pondicherry	International Symposium on Aquatic Animal Health and Epidemiology for Sustainable Asian Aquaculture	ICAR National Bureau of Fish Genetic Resources, Lucknow, India	20.04.2024 - 21.04.2024
2017	First report on the occurrence of infectious myonecrosis virus (IMNV) in pond reared <i>Litopenaeus vannamei</i> in India	International Symposium on Aquatic Animal Health and Epidemiology for Sustainable Asian Aquaculture	ICAR National Bureau of Fish Genetic Resources, Lucknow, India	20.04.2024 - 21.04.2024

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2017	Occurrence of multiple infection caused by White Spot Syndrome Virus (WSSV) and <i>Enterocytozoon hepatopenaei</i> (EHP) in pond reared <i>Litopenaeus vannamei</i> , and standardization of a multiplex PCR protocol for their simultaneous detection	International Symposium on Aquatic Animal Health and Epidemiology for Sustainable Asian Aquaculture	ICAR National Bureau of Fish Genetic Resources, Lucknow, India	20.04.2024 - 21.04.2024
2017	Establishment of a novel cardiovascular endothelial cell line from <i>Channa striatus</i> (Bloch, 1793) for virological and toxicological studies	International Symposium on Aquatic Animal Health and Epidemiology for Sustainable Asian Aquaculture	ICAR National Bureau of Fish Genetic Resources, Lucknow, India	20.04.2024 - 21.04.2024
2022	Protective immune response against Viral Nervous Necrosis (VNN) in Silver pompano (<i>Trachinotus Blochii</i>) following vaccination with inactivated Betanodavirus	12 th Indian Fisheries & Aquaculture Forum	Dr. J. Jayalalithaa Tamil Nadu Fisheries University, Chennai, India	05.05.2022 - 07.05.2022
2023	Protective immune response against Viral Nervous Necrosis (VNN) in Silver pompano (<i>Trachinotus Blochii</i>) against Inactivated Recombinant and DNA vaccines by various delivery methods (intramuscular, intraperitoneal and oral) following vaccination with inactivated Betanodavirus	XVI Agricultural Science Congress 2023 & ASC Expo	ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala, India	10.10.2023 - 13.10.2023

5.5.1. Seminars/ conferences/ workshops, other college activities organized:

Sl. No.	Detail of Activities (Name)	Level (Dept./ College)	Acted as	Date / Duration (From - To)
1.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	19-24 th Aug, 2024 / 6 days
2.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	22-37 th July, 2024 / 6 days
3.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	20-25 th May, 2024 / 6 days

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4.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	25-30 th Sep, 2023 / 6 days
5.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	13-18 th Mar, 2023 / 6 days
6.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	06-11 th Sep, 2023 / 6 days
7.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	20-25 th May, 2024 / 6 days
8.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	04-09 th July, 2022 / 6 days
9.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	09-14 th May, 2022 / 6 days
10.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	28-2 nd Apr, 2022 / 6 days
11.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	22-27 th Mar, 2022 / 6 days
12.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	25-30 th Jan, 2022 / 6 days
13.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	18-23 rd Jan, 2021 / 6 days
14.	UGC Autonomous Funded One Day National Seminar on “Biodiversity Conservation: Current Trends and Future Challenges (BCFC-2020)”	National Level	Member	25 th Feb, 2020
14.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	16-21 st Nov, 2019 / 6 days
15.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	09-14 th Dec, 2019 / 6 days

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16.	National Workshop on “Hands-on Training on Molecular Diagnostic Techniques”	National Level	Coordinator	22-27 th Apr, 2019 / 6 days
17.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	26 th Nov - 01 st Dec, 2018 / 6 days
18.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	12-17 th Nov, 2018 / 6 days
19.	National Workshop on “Hands-on Training on Molecular Diagnostic Techniques”	National Level	Coordinator	26 th Feb – 03 rd Mar, 2018 / 6 days
20.	National Workshop on “Hands-on Training on Molecular Diagnostic Techniques”	National Level	Coordinator	12-17 th Feb, 2018 / 6 days
21.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	05-10 th Oct, 2017 / 6 days
22.	National Workshop on “Hands-on Training on Fish Cell Culture Techniques: Development and Applications”	National Level	Coordinator	10-16 th Sep, 2017 / 6 days

5.6 List of Invited Talk

Year	Title of the Talk	Nature of the Event	Place	Date
2021	Development, Characterization and Application of Fish cell line	Invited Guest Lecture	Department of Microbiology and Biotechnology, Thassim Beevi Abdul Kader College for Women, Kilakarai	11.03.2021
2022	Development, Characterization and Application of Fish cell line	NFDC-PMMSY Sponsored National Workshop on Biotoxin Biosafety	Centre for Advanced Study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu, India	08.03.2022

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2022	Development, Characterization and Application of Fish cell line	21 days FDP on Research Innovations in Biological Sciences and Physical Sciences	Department of Microbiology, Zoology and Physics, Syed Ammal Arts and Science College, Ramanathapuram, Tamil Nadu, India	26.03.2022
2022	Application of Fish Cell Lines for Toxicology	3 Days National Workshop - Zebrafish as a Tool for Neurotoxicity Research	Molecular Toxicology Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore	18.08.2022
2022	Application of Fish Cell Line	Invited Talk	Department of Biotechnology, Bharathiar University, Coimbatore	18.08.2022
2023	Basic Techniques in Animal Cell Culture	National Level Hands on Training on Animal Cell Culture	Department of Biotechnology, Islamiah College, Vaniyambadi	24.02.2023
2023	Development, Characterization and Application of Fish cell line	Invited Guest Lecture	D.K.M College for Women, Vellore	01.03.2023
2023	Fish Cell Culture Techniques: Development and Application	Resource Person	PG Department of Zoology, Guru Nanak College, Chennai, Tamil Nadu	16.08.2023 - 17.08.2023
2023	Animal Cell Culture	Invited Guest Lecture	Department of Microbiology, Tirukkoilur College of Arts and Science, Tirukkoilur	31.10.2023

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2024	Development, and Application of Fish Cell Line	3 Days National workshop	Justice Basheer Ahmed Sayeed College for Women, Chennai, Tamil Nadu, India	30.01.2024 - 01.02.2024
2024	An Introduction to Fish Cell Culture	Resource Person in State Level Seminar	Department of Zoology, Ramakrishna Mission Vivekananda College, Mylapore, Chennai	15.03.2024

5.7 VIDWAN ID: 213368 & <https://vidwan.inflibnet.ac.in/profile/213368>

5.8 *Research Identification* (IF ANY)*

Orcid ID: https://orcid.org/0000-0001-6057-4792	Researcher ID: https://www.researchgate.net/profile/Abdul-Majeed-S
SCOPUS ID: https://www.scopus.com/authid/detail.uri?authorId=54917592400	Google Scholar ID: https://scholar.google.com/citations?user=Q2Mdt00AAAAJ&hl=en&oi=ao

6 Any Other