

CURRICULUM VITAE

Dr. S. Abdul Majeed, M.Sc., M.Phil., Ph.D.,

Assistant Professor

P.G & Research Department of Zoology

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OBJECTIVE

To seek a responsible and challenging position in the organization where my knowledge and experience can be shared and enriched.

RESEARCH INTERESTS

My primary focus is on undergraduate and postgraduate teaching in the fields of Zoology, cell biology, biotechnology and molecular biology. My interests in these areas are in development Stem cell therapy, animal cell biotechnology, cellular toxicology and virology. My research interests include investigating the development and use of animal cell cultures as alternatives to the use of whole animal in virology, *in vitro* gene silencing (RNAi) and toxicology research.

ACADEMIC QUALIFICATION

[2010 - 2015] Doctor of Philosophy, in Zoology (Awarded)

Thesis title: “**DEVELOPMENT, CHARACTERIZATION AND APPLICATION OF CELL LINES FROM *CHANNA STRIATUS* (BLOCH, 1793)**”.

[2008 - 2009] Master of Philosophy, in Zoology (Awarded)

Dissertation: “**APPLICATION OF FISH CELL LINE FOR EVALUATING THE TOXICITY OF TANNERY EFFLUENT**”.

[2006 - 2008] Master of Science, in Zoology

[2003 - 2006] Bachelor of Science, in Zoology

TEACHING EXPERIENCE

- **Assistant Professor:** PG and Research Department of Zoology, C. Abdul Hakeem College, Melvisharam, Vellore, India (July 2015 – Till date).

AWARDS AND FELLOWSHIPS RECEIVED

- June. 2003 to April. 2008 - Received **5 Silver medals** in the University examination.
- June. 2006 to April 2008 - Received **First rank and Gold medal** in the PG University examination.
- October 2010 to September 2012 - **Junior Research Fellow** (DST-INSPIRE Fellow) entitled “**Development and Characterization of Cell lines from *Ophiocephalus* (Murrel) and their Applications**”.
- October 2012 to June 2015 - **Senior Research Fellow** (DST-INSPIRE Fellow) entitled “**Development and Characterization of Cell lines from *Ophiocephalus* (Murrel) and their Applications**”.

ORIENTATION / REFRESHER / WINTER SCHOOL – COURSE ATTENDED

1. Attended the Orientation Programme, Batch - 132 conducted by University Grant Commission, Human Resource Development Centre and Regional Centres for Capacity Building (RCCB), University of Madras, Chennai, held from 07.11.2017 to 04.12.2017 (28 days).
2. Attended the Refresher Course in Life Sciences, conducted by University Grant Commission, Human Resource Development Centre, Bharathiar University, Coimbatore, held from 13.02.2019 to 05.03.2019 (21 days).
3. Attended the Indian Council of Agricultural Research - Winter School on Mariculture Technologies: Principles and Practices to Augment the Seafood Production in India, Organized at, Mandapam Regional Centre of ICAR - Central Marine Fisheries Research Institute, held from 06.11.2019 to 26.11.2019 (21 days).
4. Attended the Online Refresher Course in Biotechnology, conducted by the UGC - Human Resource Development Centre, University of Calicut, held from 16.09.2021 to 29.09.2021 (14 days).

TECHNICAL EXPERTISE

- **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, immune confocal microscopy, FACS, Karyotyping and cell growth kinetics.
- **Microbiology:** Isolation, identification and propagation of human and aquatic (fish and shrimp) pathogenic organisms, pure culture techniques, glycerol stock maintenance, Bacterial cytotoxicity, Microscopy, Electron Microscopy (TEM).

- **Molecular Biology:** Nucleic acid (DNA & RNA) and Plasmid extraction and purification; Primer designing, PCR, RT-PCR, Real-time PCR; Cloning and Construction of libraries in plasmid vectors, mitochondrial rRNA gene analysis of 12S, 16S and cytochrome oxidase I (COI), DNA sequencing, DNA based screening; Use of non-radioactive probes for screening; Gene silencing by RNA interference.
- **Protein Biochemistry:** Raising polyclonal antibodies in different animal models (mice, rabbit and fishes); Production of monoclonal antibody (Mab); SDS-PAGE, ELISA, Western and Dot blotting, Latex agglutination, general Ag-Ab reactions like precipitation, IgG purification, IFA, etc..
- **Nanobiotechnology:** Synthesis and characterization of different biodegradable nanoparticles.
- **Animal maintenance:** Maintenance of infected, uninfected and immunized fish, mice, shrimp, crab and rabbits.

COMPUTER SOFTWARE SKILLS

- Operating Systems: Windows (all versions), MS-Office and Adobe Photoshop.
- DNA sequence analysis using BLAST, ClustalW, BioEdit and other online Bioinformatics tools.

OTHER EXPERIENCES

- **Seminars on special topics:** Training graduate and postgraduate students on different laboratory procedures; coordinating dissertation work for Post Graduate and visiting scholars.
- **Communication and co-ordination skills:** Organization of group seminars at various levels; Designing of work plans; Trouble shooting technical problems; Setting up of the laboratory.

SHORT TERM COURSE ATTENDED

- **Course** “Real Time PCR” held on 9-11th February (2010) conducted by the Labindia Research and Development Laboratory, Gurgaon, New Delhi, India.

- **Course** on “Laboratory Management System and Internal Audit as per ISO/IEC 17025:2005” from 20th to 23rd December, 2016 at Centre for Electronics Test Engineering, STQC, Hyderabad.
- **Course** on “Laboratory Management System and Internal Audit as per ISO/IEC 17025:2017” from 9th to 12th October, 2018 at Centre for Electronics Test Engineering, STQCDte, Noida.

RESEARCH FUNDING SUPPORT

Ongoing Research Projects - as (Principal Investigators)

Sl.No	Title of Project	Funding Agency	Amount	Date of Sanction and Duration
1.	Production, nano-delivery and validation of viral vaccine against nodavirus of fish	DBT	159.9 Lakhs	24.09.2019 (On going)

Ongoing Research Projects - as (Co-Principal Investigators)

S. No	Title of Project	Funding Agency	Amount	Date of Sanction and Duration
1.	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	DBT-NBFGR	133 Lakhs	10.03.2017 (Completed)
2.	Attempt to develop diagnostics and preventive measure for suspected fish viral diseases encountered in Assam	DBT	57 Lakhs	05.02.2018 (Completed)
3.	Development of Vaccines against Tilapia Lake Virus (TiLV) and Cyprinid herpesvirus-2 of fish in Indian Aquaculture System	DBT	63.51 Lakhs	12.03.2021 (On going)
4.	Cell and Developmental Biology of Marine Organisms under Marine Bioresource and Biotechnology Network Programme	DBT	326.19 Lakhs	02.09.2021 (On going)

WORKSHOP / HANDS-ON TRAINING ORGANIZED

- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as

Coordinator held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 11th to 16th September, 2017. **(Batch - I)**

- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 05th to 10th October, 2017. **(Batch - II)**
- DBT - Sponsored **National Workshop on Hands-on Training on Molecular Diagnostic Techniques** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 17th to 10th February, 2018. **(Batch - I)**
- DBT - Sponsored **National Workshop on Hands-on Training on Molecular Diagnostic Techniques** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 26th February to 03rd March, 2018. **(Batch - II)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 12th to 17th November, 2018. **(Batch - III)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 26th November to 1st December, 2018. **(Batch - IV)**
- DBT - Sponsored **National Workshop on Hands-on Training on Molecular Diagnostic Techniques** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of

Zoology, C. Abdul Hakeem College [Autonomous] during 22th February to 27th April, 2019. **(Batch - III)**

- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 09th to 14th November, 2019. **(Batch - V)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 16th November to 21st November, 2019. **(Batch - VI)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 18th January to 23rd January, 2021. **(Batch - VII)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 25th January to 30th January, 2021. **(Batch - VIII)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 22nd March to 27th March, 2021. **(Batch - IX)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference

Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 28th March to 2nd April, 2022. **(Batch - X)**

- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 9th to 14th May, 2022. **(Batch - XI)**
- DBT - Sponsored **National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications** conducted as **Coordinator** held at Aquatic Animal Health Laboratory, OIE Reference Laboratory, PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 4th to 9th July, 2022. **(Batch - XII)**

CONFERENCE / SYMPOSIUM ATTENDED

1. Winter symposium “Endocrinology, diabetes and metabolism” held on 11-13th January (2007), organized by the Christian Medical College, Vellore, India.
2. Winter symposium “Cardiovascular Sciences” held on 10-12th January (2008), organized by the Christian Medical College, Vellore, India.
3. National Conference on “Interplay of Biological and Chemical Sciences (NCIBCS)” held on 6-8th January (2010) organized by the Department of Zoology, Thiruvalluvar University, Vellore, India.
4. Eight symposium on “Diseases in Asian Aquaculture” held on 21-25th November (2011), organized by the College of Fisheries, Mangalore and Fish Health Section of Asian Fisheries Society, Mangalore, India.
5. State Level Seminar on “Recent Trends in Chemistry” organized by Post Graduate and Research Department of Chemistry, C. Abdul Hakeem College, Melvisharam held on 28th December, 2011.
6. National Level Conference on “Emerging Trends in Bioscience” held on 25th January (2012) organized by Department of Biotechnology & Biochemistry, Marudhar Kesari Jain College for Women, Vaniyambadi, India.

7. “National Symposium on Entrepreneurship Development for Life Science” organized by P.G. & Research Department of Biochemistry, Adhiparasakthi College of Arts and Science, Kalavai, Vellore District held on 23rd January, 2013.
8. National Education Summit 2014 “Towards Educationg Young India” held on 10-11 January, 2014 at Mahatma Mandir, Gandhinagar, Gujarat organized jointly by knowledge Consortium of Gujarat and various Universities/Institutions in Gujarat.
9. The 10th Indian Fisheries and Aquaculture Forum (10ifaf) held at the ICAR-National Bureau of Fish Genetic Resources, Lucknow, India during November 12-15, 2014.
10. UGC Sponsored One Day Seminar on Recent Trends in Research held at C. Abdul Hakeem College (Autonomous) Melvisharam, Vellore District, on 31st March, 2015.
11. National Workshop “Smart Shrimp Farming 2016” held at Days Hotel, OMR, organized by Fisheries College and Research Institute, Ponneri, on 20.05.2016.
12. International Seminar on “Science of Learning and Teaching” held at C. Abdul Hakeem College (Autonomous), Melvisharam, Vellore District, on 8th October 2016.
13. “International Symposium on Aquatic Animal Health and Epidemiology for Sustainable Asian Aquaculture” held at the ICAR - National Bureau of Fish Genetic Resources, Lucknow, India during April 20-21, 2017.

BOOK / MANUAL PUBLISHED

1. Sahul Hameed, A.S., **Abdul Majeed, S.**, Taju, G. Manual of Fish Cell Culture Techniques.
2. Sahul Hameed, A.S., Vimal, S., **Abdul Majeed, S.**, Taju, G., Madan, N. Manual of Molecular Diagnostic Techniques.

CONFERENCE / SYMPOSIUM PROCEEDINGS

1. Sarath Babu, Nathiga Nambi, **Abdul Majeed**, Taju Gani, Ravi Mani, Vimal Sugumar, Sundarraj and Sahul Hameed (2011). Investigation of the propagation efficiency of fish cell lines to fish nodavirus. 8th Symposium on Diseases in Asian Aquaculture.
2. Vimal Sugumar, Taju, Nathiga Nambi, **Abdul Majeed**, Sarath Babu, Ravi and Sahul Hameed (2011). CS/TPP nanoparticles: preparation, characterization and application as oral gene delivery. 8th Symposium on Diseases in Asian Aquaculture.
3. S. Vimal, Rajesh, G. Taju, K.S.N. Nambi, **S.A. Majeed**, N. Sundar and A.S. Sahul Hameed (2012). Synthesis and characterization of CS/TPP nanoparticles for oral delivery

of gene in shrimp. Indo-UK Conference Shrimp Aquaculture & Innovative Solutions. PP-1.

4. N. Sundar Raj, K.S.N. Nambi, **S. Abdul Majeed**, G. Taju, S. Vimal, M.A. Farook, N. Madan and A.S. Sahul Hameed (2012). Freshwater crab, *Paratelphusa hydrodomous*: an alternative host for replication of white spot syndrome virus (WSSV) of shrimp. Indo-UK Conference Shrimp Aquaculture & Innovative Solutions. PP-5.
5. V. Sarath Babu, K.S. Nathiga Nambi, **S. Abdul Majeed**, N. Sundarraj, G. Taju, S. Vimal, N. Madan, and A.S. Sahul Hameed (2012). In vitro White spot syndrome virus (WSSV) replication in heart explants of freshwater crab, *Paratelphusa hydrodomous*. Indo-UK Conference Shrimp Aquaculture & Innovative Solutions. PP-6.
6. Sahul Hameed, A.S., Santhosh Kumar, S., Taju, G., Sivakumar, S. and **Abdul Majeed, S.** (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 (ISAAHE-004).
7. Sivakumar, S., **Abdul Majeed, S.**, Vimal, S., Madan, N., Rajkumar, T., Santhosh Kumar, S. and Sahul Hameed, A.S. (2017). First report on the occurrence of infectious myonecrosis virus (IMNV) in pond reared *Litopenaeus vannamei* in India. ISAAHE (ISAAHE-019).
8. Kumar, S.S., **Majeed, S.A.**, Vimal, S., Madan, N., Taju, G., D. Kumar, V., Rajkumar, T., Thamizhvanan, S. and Sahul Hameed, A.S. (2017). Occurrence of multiple infection caused by White Spot Syndrome Virus (WSSV) and *Enterocytozoon hepatopenaei* (EHP) in pond reared *Litopenaeus vannamei*, and standardization of a multiplex PCR protocol for their simultaneous detection. ISAAHE (ISAAHE-032).
9. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Sivakumar, S. and Sahul Hameed, A.S. (2017). Establishment of a novel cardiovascular endothelial cell line from *Channa striatus* (Bloch, 1793) for virological and toxicological studies. ISAAHE (ISAAHE-074).
10. Rameshkumar, P., Abdul Nazar, A.K., Anikuttan, K.K, Thamizhvanan, S., Angela Mercy, A., Sakthivel, M., Tamilmani, G., Jayakumar, R., Ravikumar T.T., **Abdul Majeed, S.**, Sahul Hameed, A.S. (2022) Protective immune response against Viral Nervous Necrosis (VNN) in Silver pompano (*Trachinotus Blochii*) following vaccination

with inactivated Betanodavirus. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY, 2022 Chennai (Paper ID 15703).

RESEARCH PUBLICATIONS

1. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Sarath Babu, V., Farook, M.A., Sahul Hameed, A.S., 2014. Development and characterization of a new gill cell line from air breathing fish *Channa striatus* (Bloch 1793) and its application in toxicology: Direct comparison to the acute fish toxicity. *Chemosphere* 96, 89-98.
2. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Sahul Hameed, A.S., 2013. Development, characterization and application of a new fibroblastic-like cell line from kidney of a freshwater air breathing fish *Channa striatus* (Bloch, 1793) *Acta Tropica* 127(1), 25-32.
3. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Sundar Raj, N., Madan, N., Sahul Hameed, A.S., 2013. Establishment and characterization of permanent cell line from gill tissue of *Labeo rohita* (Hamilton) and its application in gene expression and toxicology. *Cell Biology and Toxicology* 29(1), 59-73.
4. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Vimal, S., Venkatesan, C., Sahul Hameed, A.S., 2014. Cytotoxicity, genotoxicity and oxidative stress of malachite green on kidney and gill cell lines of freshwater air breathing fish *Channa striata*. *Environmental Science and Pollution Research* 21(23), 13539-13550.
5. **Abdul Majeed, S.**, Nambi, K.S.N., Taju, G., Sahul Hameed, A.S., 2015. Isolation, propagation, characterization, cryopreservation and application of novel cardiovascular endothelial cell line from *Channa striata* (Bloch, 1793). *Cell Biochemistry and Biophysics* 71(2), 601-616.
6. Vinita Bhardwaj, Dhvani A. Patel, **S. Abdul Majeed**, A. S. Sahul Hameed, Mujthaba A. Aatif, Ashok S. K. Kumar, Suban K Sahoo (2022). Probing Biothiols Using a Red-Emitting Pyridoxal Derivative by Adopting Copper (II) Displacement Approach and Cell Imaging. *Chemistry & Biodiversity* (In Press).
7. Priya, P., Anbarasu, M., Christina, V.S., **Abdul Majeed, S.**, Sivamurugan, V., Lakshmi Sundaram, R., 2022. Isolation of Potential Compound from the Leaves of *Elytraria acaulis* and Evaluating Its Therapeutic Properties Using *in Vitro Studies against Ovarian Cancer*. *Applied Biochemistry & Biotechnology* <https://doi.org/10.1007/s12010-022-04048-7>.
8. Mohamed Ashfaque, P., Nafeez Ahmed, A., Mohammed Safiullah, S., Taju, G., **Abdul Majeed, S.**, Sahul Hameed, A.S., Anver Basha, K., 2022. Toxicological assessment of functional polymer with single-walled carbon nanotubes in zebrafish embryos and its gill cell line. *Chemosphere*, 303 (1), 134891.
9. Badhusha, A., Nafeez Ahmed, A., Suryakodi, S., Abdul Wazith, M.J., Mithra, S., Kanimozhi, K., **Abdul Majeed, S.**, Taju, G., Sahul Hameed, A.S. 2022. First report on

the occurrence of cyprinid herpesvirus 3 (CyHV-3) in koi carp (*Cyprinus carpio koi*) in India. *Journal of Fish Diseases*. (Accepted).

10. M.S. Shabana, M.S., Taju, G., **Abdul Majeed, S.**, Nafeez Ahmed, A., Karthika, M. Ramasubramanian, V., Sahul Hameed, A.S., 2021. Preparation and evaluation of mesoporous silica nanoparticles loaded quercetin against bacterial infections in *Oreochromis niloticus*. *Aquaculture Reports* 21, 100808.
11. Suriyakodi, S., Nafeez Ahmed, A., Badhusha, A., Santhoshkumar, S., Sivakumar, S., **Abdul Majeed, S.**,* Taju, G., Rahamathulla, S., Sahul Hameed, A.S., 2022. First report on the occurrence of White Spot Syndrome Virus (WSSV), Infectious Myonecrosis Virus (IMNV) and *Enterocytozoon hepatopenaei* (EHP) in *Penaeus vannamei* reared in freshwater systems. *Journal of Fish Diseases* (DOI: 10.1111/jfd.13595).
12. Nafeez Ahmed, A., **Abdul Majeed, S.**, Taju, G., Vimal, S., Suriyakodi, S., Badhusha, A., Abdul Nazar, A.K., Ramesh Kumar, P., Paknikar Kishore, M., Jyutika M Rajwade, Sahul Hameed, A.S., 2022. Development and characterization of five novel cell lines from snubnose pompano, *Trachinotus blochii* (Lacepede, 1801), and their application in gene expression and virological studies. *Journal of Fish Diseases* 45(1), 121-139.
13. 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. 2019. *In vitro* propagation of tilapia lake virus (TiLV) in cell lines developed from *Oreochromis mossambicus*. *Journal of Fish Diseases* 42(11), 1543-1552.
14. Suryakodi, S., **Abdul Majeed, S.**, Taju, G., Vimal, S., Sivakumar, S., Nafeez Ahmed, A., Feroz Ahmad Shah, Saqib Ahmad Bhat, Dandadhar Sarma, Ajima Begum, Sahul Hameed, A.S., 2021. Development and characterization of novel cell lines from kidney and eye of rainbow trout, *Oncorhynchus mykiss* for virological studies. *Aquaculture*. 532, 736027.
15. 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., 2018. Multiple infections caused by white spot syndrome virus (WSSV) and *Enterocytozoon hepatopenaei* (EHP) in pond reared *Penaeus vannamei* in India and multiplex PCR for their simultaneous. *Journal of Fish Diseases* 42(3), 447-454.
16. Thamizhvanan, S., Nafeez Ahmed, A., Vinoth Kumar, D., Vimal, S., **Abdul Majeed, S.**, Taju, G., Chris Hauton, Sahul Hameed, A.S., 2020. Silencing of prophenoloxidase (proPO) gene in freshwater prawn, *Macrobrachium rosenbergii*, makes them susceptible to white spot syndrome virus (WSSV). *Journal of Fish Diseases* <https://doi.org/10.1111/jfd.13297>
17. Santhosh Kumar, S., Sivakumar, S., **Abdul Majeed, S.**, Vimal, S., Taju, G., Sahul Hameed, A.S., 2021. In vitro propagation of infectious myonecrosis virus in C6/36 mosquito cell line. *Journal of Fish Diseases* <https://doi.org/10.1111/jfd.13359>

18. Mujthaba Aatif, A., Selva Kumar, R., **Abdul Majeed, S.**, Ashok Kumar, S.K., 2021. A turn-on fluorescent probe for Lu³⁺ recognition and bio-imaging in live cells and zebrafish. *Analytical Methods* 13 (2), 212-221.
19. Nambi, K.S.N., **Abdul Majeed, S.**, Taju, G., Sivakumar, S., Sahul Hameed, A.S., 2018. Zebrafish fin-derived fibroblast cell line: as model for in vitro wound healing. *Journal of Fish Diseases* 42(4), 573-584.
20. Ngairangbam Sushila, Sahul Hameed, A.S., Pani Prasad, K., **Abdul Majeed, S.**, Gayatri Tripathi, 2018. *In vitro* screening of selected antiviral drugs against betanodavirus. *Journal of Virological Methods* 259, 66-73.
21. Sivakumar, S., Vimal, S., **Abdul Majeed, S.**, Santhosh Kumar, S., Taju, G., Madan, N., Rajkumar, T., Thamizhvanan, S., Shamsudheen, K.V., Vinod Scaria, Sridhar Sivasubbu, Sahul Hameed, A.S., 2018. A new strain of White spot syndrome virus (WSSV) affecting *Litopenaeus vannamei* in Indian shrimp farms. *Journal of Fish Diseases* 41(7), 1129-1146.
22. Taju, G., **Abdul Majeed, S.**, Nambi, K.S.N., Sahul Hameed, A.S., 2017. Application of fish cell lines for evaluating the chromium induced cytotoxicity, genotoxicity and oxidative stress. *Chemosphere* 184, 1-12.
23. Rajkumar, T., Taju, G., **Abdul Majeed, S.**, Sinwan Sajid, M., Santhosh Kumar, S., Sivakumar, S., Thamizhvanan, S., Vimal, S., Sahul Hameed, A.S. 2017. Ontogenetic changes in the expression of immune related genes in response to immunostimulants and resistance against white spot syndrome virus in *Litopenaeus vannamei*. *Developmental and Comparative Immunology* 76, 132-142.
24. Sahul Hameed, A.S., **Abdul Majeed, S.**, Vimal, S., Madan, N., Rajkumar, T., Santhoshkumar, S., Sivakumar, S., 2017. Studies on the occurrence of infectious myonecrosis virus in pond-reared *Litopenaeus vannamei* (Boone, 1931) in India. *Journal of Fish Diseases* 40(12), 1823-1830.
25. Nathiga Nambi, K.S., **Abdul Majeed, S.**, Taju, G., Sridhar Sivasubbu., Sarath Babu, V., Sahul Hameed, A.S., 2017. Effects of nicotine on zebrafish: A comparative response between a newly established gill cell line and whole gills. *Comparative Biochemistry and Physiology, Part C* 195, 68-77.
26. Manickavelu Manimaran, Rajkumar, T., Vimal, S., Taju, G., **Abdul Majeed, S.**, Sahul Hameed, A. S., Krishnan Kannabiran. Antiviral activity of 9(10H)-Acridanone extracted from marine *Streptomyces fradiae* strain VITMK2 in *Litopenaeus vannamei* infected with white spot syndrome virus. *Aquaculture* 488 (2018), 66-73.
27. 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., 2017. Delivery of viral recombinant VP28 protein using chitosan

- tripolyphosphate nanoparticles to protect the whiteleg shrimp, *Litopenaeus vannamei* from white spot syndrome virus infection. *International Journal of Biological Macromolecules* 107(Pt A), 1131-1141.
28. Santhosh Kumar, S., Sivakumar, S., Vimal, S., **Abdul Majeed, S.**, Taju, G., Haribabu, P., Uma, A., Sahul Hameed A.S., 2016. Biochemical changes and tissue distribution of *Enterocytozoon hepatopenaei* (EHP) in naturally and experimentally EHP-infected whiteleg shrimp, *Litopenaeus vannamei* (Boone, 1931) in India. *Journal of fish Diseases* 40(4), 529-539.
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OM811978.1		Taju, G., Badhusha, A., Nafeez Ahmed, A., Suryakodi, S., Abdul Majeed, S. , Abdul Wazith, M.J., and Sahul Hameed, A.S.,	Cyprinid herpesvirus 3 isolate KHV thymidine kinase (TK) gene, partial cds.	2022
OK157447.1		Nafeez Ahmed, A., Abdul Majeed, S., Taju, G. and Sahul Hameed, A.	mitochondrion Trachinotus blochii (snubnose pompano)	2021
KY608806.1		Sahul Hameed, A., Abdul Majeed, S., Vimal, S., Madan, N., Rajkumar, T., Santhoshkumar, S. and Sivakumar, S.	Penaeid shrimp infectious myonecrosis virus isolate IMNV-AAHL-01 structural protein gene, partial cds	2017
KU198278.1		Sahul, H., Vimal, S., Abdul, M. , Rajkumar, T., Sivakumar, S. and Santhoshkumar, S.	Enterocytozoonidae isolate EHPAAHL01 small subunit ribosomal RNA gene	2016
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JN788268.1		Madan, N., Sundar Raj, N., Sarathi, M., Sarath Babu, V., Nathiga Nambi, K.S., Abdul Majeed, S. and Sahul Hameed, A.S.	<i>Penaeus merguensis</i> densovirus capsid protein gene, partial cds	2012

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DECLARATION

I hereby declare that all the information furnished above is true to the best of my knowledge and belief.

Signature

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