JAMAL MOHAMED COLLEGE TIRUCHIRAPPALLI - 620 020, TAMIL NADU, INDIA

Dr. S. MOHAMED HUSSAIN

Designation: Assistant Professor in Zoology

Date of Birth: 09.11 .1982

Qualification: M.Sc., M.Phil., Ph.D.

Google scholar overall citations – 114

h index – 7 i10 index – 7

Cumulative impact factor – 8.446

Research Gate (Germany) RG Score – 8. 95

Address for Communication:

Office:

PG & Research Department of Zoology, 39, M

Jamal Mohamed College (Autonomous) Ka

Tiruchirappalli – 620 020 Tamil Nadu, INDIA

Email: mdhussainjmc@gmail.com

Residence:

39, Muslim Street, II Lane

Kajamalai,

Tiruchirappalli – 620 023

Tamil Nadu, INDIA

Mobile: +91 99442 83849

Educational Qualifications:

Degree	University/College	Year of Passing
Ph.D.	Annamalai University	2013
M.Phil.	Annamalai University	2008
M.Sc.	Annamalai University	2006
B.Sc.	Jamal Mohamed College	2004

Departmental Placement Officer:

Serving as Departmental Placement officer since 2015 till date

Teaching Experience:

Working as Assistant Professor, in the Department of Zoology, Jamal Mohamed College from 14.06.2012 to till date, and handling classes for UG, PG and M.Phil., Programmes (Together with DEENIYATH EDUCATION Classes)

Subjects Taught:

Undergraduation: Biology of Invertebrates, Biology of Chordates, Immunology, Bioinformatics,

Microbiology and Biotechnology

Postgraduatation: Biology of Invertebrates & Chordates, Cell Biology, Molecular Biology,

Developmental Biology, Microbiology, Biotechnology and Immunology

M.Phil. level: Molecular Biology



Title of Thesis:

Title of the Ph.D. Thesis

ISOLATION AND CHARACTERIZATION OF A SULFAMINE FROM THE BLACK TUNICATE *PHALLUSIA NIGRA* (SAVIGNY, 1816) AND ITS ROLE IN APOPTOSIS OF MCF- 7 BREAST CANCER CELL LINE

Title of the M.Phil., Thesis

SALMONELLA A SEA FOOD BORNE PATHOGEN

Area of Research

Molecular Phylogeny, Genetic Diversity, Cancer Biology, Cell signaling, Drug Discovery-Isolation, Purification and Biochemical Characterization of Secondary metabolites from Animal Source

Research Advisership:

Name of the	Ref. No. & Year	Name of the University
Course		
Ph.D.	012893/Ph.D./K12/Zoology/R.A./30.11.20	Bharathidasan University
		-
M.Phil.	34880/M.Phil./R.A./Zoology/2014/Dated 09. 10. 2014	Bharathidasan University

Research Experience

- Awarded Junior Research Fellowship by MoES, (Govt. of India, New Delhi), at Annamalai University (February 2009 – January 2011).
- Awarded Senior Research Fellowship by MoES, (Govt. of India, New Delhi), at Annamalai University (February 2011 – January 2012).

Research Supervision/Guidance

Name of the Course	Completed	On going
Ph.D.		
M.Phil.	16	02
M.Sc.	11	03
UG/others	01	01

Research Project (Completed)

S.No	Title of the Project	Amount	Funding	Year of	Year of
		Sanctioned	Agency	Starting	Completion
1.	SCREENING OF	4,45, 000/-	UGC	2017	2019
	ANTIBACTERIAL POTENTIAL				
	FROM SEA STARS OF THE				
	GULF OF MANNAR AGAINST				
	SELECTED HUMAN URINARY				
	TRACT INFECTIOUS				
	PATHOGENS				

Academic Bodies (Board of Studies etc.)

- 1. **Member –** Doctoral Committee for Ph.D. Programme, Bharathidasan University.
- 2. **Member**-Board of Studies in Zoology, Jamal Mohamed College.
- 3. **Subject Expert -** Board of Studies in Zoology, Hajee Karutha Rowther Howdia College, Uthamapalayam from 2016 2018.

Seminar/Conferences/Workshop/ Endowment Organized:

- 1. Organized UGC sponsored National Seminar on "Advances in Animal Science for Sustainable Development" during 15th February 2018 at Department of Zoology, Jamal Mohamed College, Tiruchirappalli, India.
- 2. Organized Dr. P. Shahul Hameed Endowment Lecture on "**EFFICACY OF MARINE RESOURCES**" during 10th January 2019 at Department of Zoology, Jamal Mohamed College, Tiruchirappalli, India.

Acted as Resource Person:

S.No.	Name* of the Seminar / Conference/Workshop/ Science Congress	Role	Date(s) DD-MM-YYYY
1	Workshop on DNA separation Technique organized by the Department of Zoology, Jamal Mohamed College, Tiruchirappalli.	Resource Person	13. 03.2021.
2	II International Conference (online) on challenges to Environment and Health organized by the Department of Zoology, Jamal Mohamed College, Tiruchirappalli.	Chair Person	18 &19 .11.2020
3	"Online Training on Electrophoresis organized by the Department of Zoology, Jamal Mohamed College, Tiruchirappalli."	Resource Person	09. 08.2020.
4	International Conference CUM Webinar on "Recent Innovation in Biosciences" organized by the Department of Zoology, Holycross College, Trichy	Chair Person	07. 02. 2018
5	State level National children's science congress held at K.P.R. College, Coimbatore	Evaluator	10-11-2018
6	24 th National Children's Science Congress by NCSTC at MAM College of engineering, Trichy	Evaluator	30.11.2016
7	National Seminar on Frontiers in Microbiology and Biotechnology, Jamal Mohamed College	Resource Person	05. 03. 2016

Orientation / Refresher Courses attended:

S.No.	Orientation / Refresher	Institution where attended and	Date(s)
S.140.	Course	place	DD-MM-YYYY
1	Orientation	Bharathidasan University	20-05-2014 to
		Tiruchirappalli - 620 023	16-06-2014
2	Refresher	Bharathidasan University	26-10-2017 to
		Tiruchirappalli - 620 023	15-11-2017
3	Refresher	Madurai Kamaraj University	20-10-2021 to
		Madurai – 625 021	02-11-2021

Paper Publications (in International Journals) : 16
Book chapter : 01
Monograph : 01
Gene sequences submitted to NCBI database : 09
Research paper presented in Seminars : 05
Seminars / Traning Programmes / Workshop/
Symposium / Webinar Attended : 39

Publication of Research Articles:

- Mohamed Hussain Syed, Ananthan Gnanakkan and Sivaperumal Pitchiah, 2021. Exploration of acute toxicity, analgesic, anti-inflammatory and anti-pyretic activities of the black tunicate, *Phallusia nigra* (Savigny, 1816) using mice model. Environmental Science and Pollution Research, 28:5809–5821. Impact Factor (4.223). Springer publications. (ISSN 0944-1344).
- Pandion Kumar, Pitchiah Sivaperumal, Vajravelu Manigandan, Rajendran Rajaram and Mohamed Hussain, 2021. Assessment of potential human health risk due to heavy metal contamination in edible finfish and shellfish collected around Ennore coast, India. Environmental Science and Pollution Research, 28:8151–8167. Impact Factor (4.223). Springer publications. (ISSN 0944-1344).
- Mohamed Hussain, S., M. Mohammed Muneesh, M. Sri Sathya and M. Durai, 2019. Screening of Bioactive Metabolites from the Starfish *Pentaceraster mammillatus* against Human Urinary Tract Infectious Pathogens. International Journal of Pharmaceutical Sciences and Drug Research 2019; 11(5): 194-198. (ISSN 0975 – 248X).
- 4. Mohamed Hussain, S., O. Basith, K. Chamundeeswari, and M Chitra, 2019. Antibacterial Potential of Sea star Protoreaster linckii from Mandapam, Southeast Coast of India. Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, 5 (4): 62-72. (ISSN 2454 6348).
- Mohamed Hussain, S., K, Chamundeeswari, N. Ashif, and G. Meenakshi, 2019. *In-vitro* Antibacterial Efficacy of Astropecten indicus against selected Human Urinary Tract Pathogens. Journal of Emerging Technologies and Innovative Research, 6 (6): 345-349. (ISSN 2349-5162).

- Rajasekar, P., A. Jebanesan, Mohamed Shamsudin, I. Antony Joseph Jerald, M. Meeramaideen, S. Mohamed Hussain and Jeyakumar, 2015. Bioefficacy of Hexaflumuron on emergence inhibition of fourth larval stages of Ades aegypti, Culex quenquefaciatus and Anopheles stephensi. International Journal of Modern Research and Reviews.3(6)709-710. (ISSN 2347-8314).
- 7. **Mohamed Hussain, S.,** R. Kanmani and S. Jayalakshmi, 2011. Antibiotic resistance of *Salmonella* sp. from seafood at Parangipettai, Southeast Coast of India. *J. Ecotoxicol. Environ. Monit* **21 (6)**: 563- 566. (ISSN: 0971-0965).
- 8. **Mohamed Hussain, S.,** G. Ananthan and P. Sivaperumal, 2011. Exploration of cytotoxic potential from marine ascidians *Trididemnum clinides* and *Trididemnum savignii*. *Journal of Pharmacy Research*, **4 (7)**: 2032 2033. (ISSN: 0974-6943).
- 9. Ananthan, G., **S Mohamed Hussain** and P. Sivaperumal, 2011. Antibacterial activity of the crude extract of marine ascidian *Trididemnum clinids* against clinical isolates. *J. Ecotoxicol. Environ. Monit*, **21 (6)**: 523- 526. (ISSN: 0971-0965).
- 10. Selva Prabhu, A., G. Ananthan, **S. Mohamed Hussain** and T. Balasubramanian, 2011. Antibacterial activity of ascidian Phallusia Arabica against human clinical isolates. Journal of Applied Pharmaceutical Science, 01 (10): 143-145. (ISSN: 2231-3354).
- 11. Ananthan, G., P. Sivaperumal and **S. Mohamed Hussain**, 2011. Cytotoxicity of the crude extracts of Marine ascidians (Tunicata: Ascidiacea) from Tuticorin, Southeast coast of India. *Archives of Applied Science Research*, **3 (2)**: 139 -142. (ISSN 0975-508X).
- 12. Ananthan, G., P. Sivaperumal and **S. Mohamed Hussain**, 2011. Antibacterial Potential of Marine Ascidian *Phallusia Arabica* Against Isolated Urinary Tract Infections Bacterial Pathogens. *Asian Journal of Animal Sciences* **5(3)**: 208-212. (ISSN 1819-1878).
- 13. Ananthan, G., **S. Mohamed Hussain**, P. Sivaperumal and H. Abdul Jaffar Ali, **2011.** Screening For Novel Drug Properties From Marine Tunicate Against Human Urinary Tract Pathogens. *Journal of Pharmacy Research* **4 (2): 356 357.** (ISSN: 0974-6943).
- 14. Sivaperumal. P., G. Ananthan and **S. Mohamed Hussain, 2010.** Exploration of antibacterial effects on the crude extract of marine ascidian *Aplidium multiplicatum* against clinical isolates. *Int. J. Med. Med. Sci.* **2 (12): 382-386.** (ISSN 2006-9723).
- 15. Sheelaa. B., S. Mohamed Hussain, P. Sampath Kumar, V. K. Kalaichelvam and V. K. Venkatachalam, 2010. Vasodilatation Effect of Latex from *Calotropis giganteantea* in Green Frog *Rana hexadactyla*. Asian Journal of Medical sciences, 2 (1): 22 -23. (ISSN: 2040-8773).
- 16. **Mohamed Hussain. S.,** and G. Ananthan, **2009.** Antimicrobial activity of the crude extracts of compound Ascidians *Didemnum candidum* and *Didemnum psammothodes* (Tunicata: Didemnidae) from Mandapam (Southeast coast of India). *Curr. Res. J. Biol. Sci.*, **1 (3)**: 168 171. (ISSN: 2041-0778).

Book Chapter:

 Ananthan G., S. Mohamed Hussain, A. Selva Prabhu and T. Balasubramanian, 2015. Diversity and Ecology of Sedentary Ascidians of the Gulf of Mannar, Southeast Coast of India, Marine Faunal Diversity in India. Taxonomy, Ecology and Conservation, Academic Press Elsevier Publications (I S B N: 9 7 8 – 0 -1 2 -8 0 1 9 4 8 -1), pp. 161 – 169.

Monograph:

 Ananthan, G., S. Mohamed Hussain, A. Selva Prabhu and T. Balasubramanian, 2012. Monograph on the Diversity of Sedentary Ascidians (Chordata: Urochordata) from Gulf of Mannar, Southeast Coast of India. (I S B N - 9 7 8 - 9 3 – 5 0 6 7 - 3 9 2 – 8). Annamalai University publication, Porto-Novo. 128pp.

GENBANK SUBMISSIONS (NCBI) U. S. A.

- 1. *Phallusia nigra* cytochrome c oxidase subunit I gene, partial cds; mitochondrial, (GenBank Accession: JN115330).
- 2. Phallusia nigra strain SMH1 cytochrome b (CytB) gene, partial cds; mitochondrial, (GenBank Accession: JN791272).
- 3. *Phallusia nigra* strain **SMH1** 18S ribosomal RNA gene, partial sequence, (GenBank Accession: JN673715).
- 4. *Pycnoclavella diminuta* strain MH-JMC1 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial (GenBank Accession: KJ632945.1).
- 5. Aplidium conicum strain MH-JMC2 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial (GenBank Accession: KJ632946.1).
- 6. *Trididemnum cyanophorum* strain MH-JMC3 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial (GenBank Accession: KJ632947.1).
- 7. *Pycnoclavella diminuta* strain MH-JMC4 18S ribosomal RNA gene, partial sequence (GenBank Accession: KJ632948.1).
- 8. *Aplidium conicum* strain MH-JMC5 18S ribosomal RNA gene, partial sequence (GenBank Accession: KJ632949.1).
- 9. *Trididemnum cyanophorum* strain MH-JMC6 18S ribosomal RNA gene, partial sequence (GenBank Accession: KJ632950.1).

PAPER PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES/ SYMPOSIA AND SEMINARS

- Mohamed Hussain. S., G. Ananthan, P. Sivaperumal and A. Selva Prabhu. 2011. Screening for novel drug properties from marine tunicate against human urinary tract pathogens. International Conference on Natural Products and Biomedical Technology. Organized by Department of Biochemistry and Biotechnology Annamalai University, during 10th – 12th January.
- 2. **Mohamed Hussain. S.,** P.Sivaperumal and G.Ananthan. 2011. Exploration of antioxidant properties of tunic extracts from two marine ascidians, *Phallushia nigra* and *Phallushia arabica*. 98th Indian Science Congress, held at SRM University, Chennai, during 3rd 7th January.
- Mohamed Hussain. S., and G. Ananthan, 2010. Antimicrobial activity of the crude extracts of colonial Ascidians from Mandapam (Southeast coast of India). International Conference on Biotechnology, Food and Bioengineering - Emerging Trends and Future Prospects (ICBFBE). Organized by PRIST University and Indian Institute of Crop Processing Technology, Govt. Of India Thanjavur, Tamil Nadu, during 25 and 26 Feb.
- 4. Ananthan. G., M.M. Karthikeyan and S. Mohamed Hussain, 2010. Heavy metal accumulation in marine sponges from Palk Bay, Southeast coast of India. National seminar on advances in Biological sciences sponsored by UGC, held at Department of Zoology, Annamalai University, during 22nd 23rd January.
- 5. **Mohamed Hussain, S.,** S. Jayalakshmi and G. Ananthan, 2009. Antibiotic Resistance of Salmonella spp. Isolates from sea Foods. Advances in Applied Zoology. Organized by Ayya Nadar Janaki Ammal College, Sivakasi, during 30th -31st March.

SEMINARS/ TRANING PROGRAMMES / WORKSHOP/ SYMPOSIUM / WEBINAR ATTENDED

- 1. Participated in Science academies lecture workshop on Thrust Areas in Biosciences organized by Department of Biotechnology, Cauvery College for Women, Tiruchirappalli from 22nd to 23rd February 2022.
- 2. Participated in the faculty Development Programme organized by PG and Research Department of Zoology and IQAC, Jamal Mohamed College from 24th to 29th January 2022.
- 3. Participated in the Faculty Development Programme on Quality enrichment Strategies for higher education Institutions organized by IQAC, Sri Sarada College for women, Salem from 05th to 12th January 2022.
- 4. Participated in the online webinar Series I on "Cytogenetics An Introduction" organized by the P.G. and Research Department of Biotechnology, Jamal Mohamed College, Thiruchirappalli on 25th August 2021.

- 5. Participated in the Faculty Enrichment programme on "Art of writing in Indexed Journal Publications" organized by the Internal Quality Assurance Cell, Jamal Mohamed College on 28th July 2021.
- 6. Participated in the online Faculty Enrichment programme organized by the Internal Quality Assurance Cell, Jamal Mohamed College, Trichy from 21st to 25th June 2021.
- 7. Participated in the Faculty Development Programme on "E-Content Development" organized by the Internal Quality Assurance Cell, Jamal Mohamed College from 30-06-2020 to 04-07-2020.
- 8. participated in the "ONLINE WORKSHOP ON VERMITECHNOLOGY" (DBT star Student Enrichment Programme) organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on 11th July 2020.
- 9. participated in the "ONLINE WORKSHOP ON INSECT PEST MANAGEMENT" (DBT star Student Enrichment Programme) organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on 10th July 2020.
- 10. participated in the Webinar on "National Education Policy 2020" organized by Internal Quality Assurance Cell, Jamal Mohamed College on 08th August 2020.
- 11. Participated in the "online workshop on methods in protein separation and quantification" organized by the P.G and Research Department of Zoology, Jamal Mohamed college, Tiruchirappalli on 7th August 2020.
- 12. participated in the Online Training on Microtechnique (DBT star Student Enrichment Programme) organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on 08th July 2020.
- 13. Participated in State Level Seminar on Conservation of Biological Diversity held at P.G. and Research Department of Zoology, Periyar E.V.R. College, Trichy on 5th March 2019.
- 14. UGC-CPE Sponsored Two-Days Workshop on Professional Development for Academic Leadership in Curriculum Design, Internal Quality Assurance Cell, Jamal Mohamed College, Trichy on 18th and 19th January 2019.
- 15. Participated in Two- Day Science Academies' Lecture Workshop on Recent Trends in Applied and Molecular Endocrinology held at Holy Cross College, Tiruchirappalli on 26th and 27th September 2018.
- 16. Participated in One Day MHRD Draft proposal for Higher Education Commission of India, Internal Quality Assurance Cell, Jamal Mohamed College, Trichy on 14th July 2018.
- 17. Participated in One Day Workshop on Writing Winnable Project Proposals, Internal Quality Assurance Cell, Jamal Mohamed College, Trichy on 23rd June 2018.
- 18. Participated in NLP Based Faculty Empowerment Programme, Internal Quality Assurance Cell, Jamal Mohamed College, Trichy on 17th 20th June 2018.

- 19. Participated in International Seminar on Molecular biology on Underpinning to life Sciences, Farook College, Kozhikode, Kerala on 8th and 9th January 2018.
- 20. Participated in International Conference on Innovations and Challenges in Biomedical Science Research, Holy Cross College, Trichy on 12th 14th December 2017.
- 21. Participated in Workshop on 'Plant tissue culture techniques' held in Dept. of Botany, St. Joesph's College, Trichy on 8th February 2017.
- 22. Participated in Workshop on 'Climate change impact on the Marine Environment' held in the Dept. of Marine Science, Bharathidasan University, Trichy on 2nd and 3rd February 2017.
- 23. Participated in UGC sponsored National Seminar on Environmental Challenges to Climate Change organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on 14th October 2016.
- 24. Participated in National Conference on 'Environment and Resource Management, organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on March 6, 2014.
- 25. Participated and presented the National Conference on 'Water Resources Management in Tamilnadu organized by the P.G. and Research Department of Zoology, Jamal Mohamed College, Thiruchirappalli on March 6, 2013.
- 26. Participated in Workshop on "Digital alternatives to Animal Dissections and Experiments" Organised by Mahatma Gandhi Doerenkamp Centre (MGDC) for alternatives to Use of Animals in Life Science Education, Bharadhudasan University on 17th august 2013.
- 27. Participated in National Conference on "Current Challenges in Environment" Organised by P. G. and Research Department of Zoology and Association of Environmental Analytical Chemistry of India (AEACI) on 7th and 8th March 2013.
- 28. Participated in a Two Day Faculty Development Programmme on soft skills" Organised by the Internal Quality assurance Cell, Jamal Mohamed College (Autonomous) on 4th and 5th January 2013.
- 29. Participated in National Workshop on "*In Vitro* Toxicology Adopting integrated discrete multiple Organ Co Culture" Organised by Dorencamp- Zbinden Foundation, Switzerland, UGC- SAP Department of Endocrinology, University of Madras, CSIR, New Delhi and MGDC Bharadhidasan University on 16th 18th February 2011.

- 30. Attended hands on Training Programme and learnt research technique like cell culture, RT PCR, Western Blot, ELISA, Gelatin Zymography and Florescent microscopy at Department of Endocrinology, Dr. ALM. Post Graduate Institute of Basic Medical sciences from 06th February to 25th May 2012.
- 31. Participated in National Seminar on "Endocrine and Metabolic Disorders" Organized by Department of Endocrinology, Dr. ALM. Post Graduate Institute of Basic Medical sciences on 9th March 2012.
- 32. Attended hands on Training Program and acquired skills on various aspects of bioprospecting for pharmaceutical compounds from animal source, relevant instrumentations, autopsy and biopsy techniques at Central Institute of Fisheries Education (CIFE), Mumbai during 8th April to 4th June 2011.
- 33. Participated in International Symposium on "Cardiovascular Disease Prevention" Organized by Faculties of Medicine and Marine Sciences, Annamalai University on 21st & 22nd February 2011.
- 34. Participated National Symposium on Climate Change and Marine Biodiversity (CCMB). Organized by Dept. of CAS in Marine Biology, Annamalai University on 26th Feb 2010.
- 35. Participated in the 3rd National Workshop on "Recent Trends in Nano –Biotechnology and Nanotechnology Instrumentation" on 17th 19th September, 2009. Organized by Dept of Plant Biology and Biotechnology, presidency college, Chennai and IIT Chennai on FT IR, GC MS, UV VIS, FTIR, NMR, Spectrometers, XRD, HR TEM and HR SEM.
- 36. Participated in "Summer Training Programme on Bioprocess Technology (Enzyme Technology)" held on $25^{th}-29^{th}$ May 2009. Organized by centre of advanced study in Marine Biology, Annamalai University, and Parangipettai.
- 37. Participated in Training programme on **Histamine Analysis**, organized by Central Institute of Fisheries Technology (CIFT), Kochi, From 14th 15th March 2006.
- 38. Participated in a One Day seminar on "Pollution Control" organised by CAS in Marine Biology Annamalai University, Parangipettai on 19th March 2005.
- 39. Participated in Introductory Course in **Fishery Biology**, organized by Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Kochi, From 21st 22nd August 2003.