

**Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020**

**Dr. S. MOHAMED HUSSAIN**



**Designation** : Assistant Professor in Zoology

**Date of Birth:** 09.11 .1982

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

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**Address for Communication:**

**Office:**

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**Residence:**

39, Muslim Street, II Lane  
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**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

Experience:            *Undergraduate:* 04 years  
                              *Postgraduate:* 04 years  
                              *M.Phil.:*            03 years

Languages known : English, Tamil, Urdu, hindi.

**AREA OF RESEARCH**

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

**Subjects Taught:**

**Undergraduate:** Biology of Invertebrates, Biology of Chordates, Cell Biology, Genetics, Animal Physiology and Biotechnology

**Postgraduate:** Cell Biology, Molecular Biology, Developmental Biology, Microbiology, Biotechnology, Aquaculture Biotechnology and Animal Physiology

**M.Phil.:** Histology, Histochemistry and Molecular Biology

### Honours and Awards

- As per the Google Scholar rating

Total Citation	h-index	i10-index
55	5	1

- 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 Guidance

	Name of the Course	Guided	On going
1.	Ph.D.	-	-
2.	M.Phil.	2	7
3.	M.Sc.	6	-

<b>Paper Publications (in International Journals)</b>	<b>: 11</b>
<b>Book chapter</b>	<b>: 01</b>
<b>Seminars/ Training Programmes Attended</b>	<b>: 16</b>
<b>Research paper presented in Seminars</b>	<b>: 05</b>
<b>Refresher Courses /Orientation Courses attended</b>	<b>: 01</b>
<b>Gene sequences submitted to NCBI database</b>	<b>: 09</b>

### PUBLICATIONS

- P.Rajasekar, and A`Jebanesan, Mohamed Shamsudin, I.Antony Joseph Jerold, M.Meeramaideen, **Mohamed Hussain** and Jeyakumar.2015 Bioefficacy of Hexaflumuron on emergence inhibition of fourth larval stages of *Aedes aegypti*, *Culex quinquefasciatus* and *Anopheles stephensi*.*International Journal of Modern Research and Reviews*.3(6)709-710. (ISSN No.2347-8314). Impact Factor 1.2
- S. Mohamed Hussain**, 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.
- S. Mohamed Hussain**, 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)

4. G. Ananthan, **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.
5. 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)
6. Ananthan, 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)
7. G. Ananthan, 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)
8. Ananthan. G., **S. Mohamed Hussain**, P. Sivaperumal and 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)
9. 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)
10. Sheelaa. B., **S. Mohamed Hussain**, P. Sampath Kumar, V. K. Kalaichelvam and V. K. Venkatachalam , **2010**. Vasodilatation Effect of Latex from *Calotropis gigantean* in Green Frog *Rana hexadactyla*. *Asian Journal of Medical sciences* **2 (1)**: 22 -23. (ISSN: 2040-8773)
11. **Mohamed Hussain. S.**, and G. Ananthan, **2009**. Antimicrobial activity of the crude extracts of compound Ascidiaceans *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)

#### Chapter written in Book:

1. Ananthan G., **S. Mohamed Hussain**, A. Selva Prabhu and T. Balasubramanian (2015). Diversity and Ecology of Sedentary Ascidiaceans of the Gulf of Mannar, Southeast Coast of India, **Marine Faunal Diversity in India**. Taxonomy, Ecology and Conservation, Academic Press Elsevier Publications (ISBN: 978-0-12-801948-1), pp. 161 – 169.

#### SEMINARS/ TRAINING PROGRAMMES / WORKSHOP/ SYMPOSIUM ATTENDED

1. Participated and presented the national conference on 'Water Resources Management in Tamilnadu in Jamal Mohamed College, Trichy. March 6, 2011.

2. Participated and presented the national conference on 'Sustainable Resource Management and Productive environment, Jamal Mohamed College, Trichy. March 6, 2011.
3. 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 17<sup>th</sup> august 2013.
4. 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 7<sup>th</sup> and 8<sup>th</sup> March 2013.
5. Participated in "A Two Day Faculty Development Programmme on soft skills" Organised by the Internal Quality assurance Cell, Jamal Mohamed College (Autonomous) on 4<sup>th</sup> and 5<sup>th</sup> January 2013.
6. 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 16<sup>th</sup> - 18<sup>th</sup> February 2011.
7. 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 06<sup>th</sup> February to 25<sup>th</sup> May 2012.
8. Participated in National Seminar on "Endocrine and Metabolic Disorders" Organized by Department of Endocrinology, Dr. ALM. Post Graduate Institute of Basic Medical sciences on 9<sup>th</sup> March 2012.
9. 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 8<sup>th</sup> April to 4<sup>th</sup> June 2011.
10. Participated in International Symposium on " Cardiovascular Disease Prevention" Organized by Faculties of Medicine and Marine Sciences, Annamalai University on 21<sup>st</sup> & 22<sup>nd</sup> February 2011.
11. Participated National Symposium on Climate Change and Marine Biodiversity (CCMB). Organized by Dept. of CAS in Marine Biology, Annamalai University on 26<sup>th</sup> Feb 2010.

12. Participated in the 3<sup>rd</sup> National workshop on “Recent Trends in Nano –Biotechnology and Nanotechnology Instrumentation” on 17<sup>th</sup> – 19<sup>th</sup> September, 2009. Conducted 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.
13. Participated in “Summer Training programme on Bioprocess Technology (Enzyme Technology)” held on 25<sup>th</sup> – 29<sup>th</sup> May 2009. Conducted by centre of advanced study in Marine Biology, Annamalai University, and Parangipettai.
14. Participated in Training programme on **Histamine Analysis**, conducted by Central Institute of Fisheries Technology (CIFT), Kochi, From 14<sup>th</sup> – 15<sup>th</sup> March 2006.
15. Participated in one – day seminar on “Pollution Control” Organised by CAS in Marine Biology Annamalai University, Parangipettai on 19<sup>th</sup> March 2005.
16. Participated in Introductory Course in **Fishery Biology**, conducted by Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Kochi, From 21<sup>st</sup> – 22<sup>nd</sup> August 2003.

#### **PAPER PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES/ SYMPOSIA AND SEMINARS**

1. **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 10<sup>th</sup> – 12<sup>th</sup> 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*. 98<sup>th</sup> Indian Science Congress, held at SRM University, Chennai, during 3<sup>rd</sup> – 7<sup>th</sup> January.
3. **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, 22<sup>nd</sup> – 23 rd 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 30<sup>th</sup> – 31<sup>st</sup> March.

#### **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).