

Name :C.Venkatesan

Designation :Associate Professor

Department :Biochemistry

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

Experience :Teaching: 10 Years Industry: 2Year Research:12 -

Area of Specialization(s) :Immuno toxicology, Molecular Immunology, Molecular Toxicology

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Biochemistry	C.Abdul Hakeem College, Thiruvalluvar	2010
M.Phil.	Biochemistry	C.Abdul Hakeem College, Thiruvalluvar	2005
M,Sc	Biochemistry	Ponnaiyah Ramajayam College, Bharadhasan	2003
B.Sc,	Biochemistry	C.Abdul Hakeem College, Thiruvalluvar	2000

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certificate	Industrial Biotechnology	NPTEL	2018
Online Certificate	Tissue Engineering	NPTEL	2019

Grants Received

Event Title	Agency	Amount	Date
Science Academies Lecture Workshop “Recent Advances in Biochemistry	Indian National Science Academy Indian Academy of Sciences The National Academy of Sciences Dr.N.G.P.Arts Science College New Delhi Bengaluru Allahabad Coimbatore	Rs. 175,000	10-11th August 2018
Hands on training in Molecular and immunological techniques	State Council for Science and Technology (STCST), 20,000/-	20,000/-	2018

Projects**Completed**

Project Title	Agency	Amount	Duration
Heat shock Proteins gene expression In Peneaus Monodon (Marine shrimp) under the exposure of White Spot Syndrome Virus(WSSV)	DST FAST TRACK YOUNG SCIENTIST from Department of Science and Technology, New Delhi, India. (2012 -2015	230000/	2012 -2015
Development of Biosensor to detect saxitoxin from algal floom	Post-Doctoral Research Fellowship (PDF) from Biotechnology Research Institute, University of Malaysia Sabha (UMS), Malaysia (2010 – 2011	280000	2010 -2012

On-going

Project Title	Agency	Amount	Duration
“Projection and Characterization and Application of Monoclonal Antibodies against Snake Venom Naja naja (cobra) as an alternate to Anti-Snake Venom ”	ICMR	280000	-

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	4
M. Phil.	-	-

Research Publications (Indexed)**International**

C. Venkatesan, Sarathi Mani, G. Balasubramanian, Jhon Thomas, V. Balachander, A.S.Sahul Hameed (2012). Antivenom activity of triterpenoid (C₃₄H₆₈O₂) from *Leucas aspera* against *Naja naja* venom induced toxicity - antioxidant and histological study in mice. Human and Experimental toxicology. DOI: 10.1177/0960327113494901 (Accepted). Impact factor 1.789

. C. Venkatesan*, S.Vimal, A.S.Sahul Hameed. (2012) Synthesis and characterization of Chitosan Tripolyphosphate nanoparticles containing Russell's viper snake venom. Journal of Biochemical and Molecular Toxicology (Accepted) DOI 10.1002/jbt.21502. Impact factor 1.483

C. Venkatesan, Sarathi, M., Balasubramanian, G., Mohamed Yusif Bilal, S., Vimal, N.Madan., G.Sridevi., Sahul Hameed, A.S., (2012): Neutralization of cobra venom by cocktail antiserum against venom proteins of cobra (*Naja naja*). Biologicals (Accepted). <http://dx.doi.org/10.1016/j.biologicals.2013.09.002>. Impact factor 1.613

C. Venkatesan, M.Sarathi Mani, G. Balasubramanian , A. Saravanan, Urban John D'Souza, A.S. Sahul Hameed (2012). Detection and Neutralization of cobra venom using Rabbit antiserum in experimental envenomated mice. Human and Experimental toxicology (Accepted). DOI: 10.1177/0960327113511474 Impact factor 1.789

Sarathi, M., Martin C. Simon, Venkatesan, C., A. S. Sahul Hameed. (2008). Oral administration of bacterially expressed VP28 dsRNA to protect shrimp, *Penaeus monodon* from white spot syndrome virus. Marine Biotechnology 10, 242-249. Impact factor 3.433

Sarathi, M., Nazeer Basha, A., Ravi, M., Venkatesan, C., Senthil Kumar, B., Sahul Hameed, A.S. (2008). Clearance of white spot syndrome virus (WSSV) and Immunological changes in experimentally injected *Macrobrachium rosenbergii*. Fish and Shellfish immunology 25, 222-230. Impact factor 3.715

Balasubramanian G., Sarathi, M., Venkatesan, C., John Thomas, Sahul Hameed, A.S. (2008). Studies on the immunomodulatory effect of extract of *Cyanodon dactylon* in shrimp, *Penaeus monodon* and its efficacy to protect the shrimp from white spot syndrome virus (WSSV). Fish and Shellfish Immunology 25, 820- 828. Impact factor 3.71

Balasubramanian, G., Sarathi, M., Venkatesan, C., John Thomas, Sahul Hameed. A.S. (2008). Oral administration of antiviral plant extract of *Cynodon dactylon* on a large scale production against White spot syndrome virus (WSSV) in *Penaeus monodon*. Aquaculture 279,2-5. Impact factor 2.4

Ishaq Ahmed. V.P., Vikash Chandra, Parameswaran. P, Venkatesan, C, Ravi Shukla, Ramesh Bhonde and A.S. Sahul hameed. (2008). A new epithelial like cell line from eye muscle of catla *Catla Catla* (Hamilton): development and characterization. Journal of Fish biology 72, 2026 – 2038. Impact factor 1.685

Sivakumar. V.K., Sarathi. M., Venkatesan, C., Sahul Hameed. A.S. (2007). Evaluation of *Artemia* as a carrier host of Hepatopancreatic parvo like virus (HPV) and its role as vector in transmission of HPV to *Penaeus monodon* post larvae. Journal of Invertebrate Pathology 102,192-195. Impact factor 2.147

Elango.G. Abdul Rahuman.R., Bagavan.A., Kamaraj.C., Abdur Zahir., A and C., Venkatesan, C. (2009). Laboratory study on larvicidal activity of indigenous plant extracts against *Anopheles subpictus* and *Culex tritaeniorhynchus* Parasitological Research.104,1381-1388. Impact factor 2.19

Sarathi. M., Ishaq Ahmed. V. P., Venkatesan, C., Balasubramanian. G., Prabavathy. J. and Sahul Hameed. A.S. (2007). Comparative study on immune response of *Fenneropenaeus indicus* to *Vibrio alginolyticus* and white spot syndrome virus. *Aquaculture* 271, 8-20. Impact factor 2.45

Sudhakaran, R., Haribabu, P., Rajesh Kumar, S., Sarathi, M., Ishaq Ahmed, V.P., Sarath Babu, V., Venkatesan, C., Sahul hameed, A.S. (2007). Natural aquatic insect carriers of *Macrobrachium rosenbergii* nodavirus (MrNV) and Extra small virus (XSV) Disease of Aquatic Organisms 79; 141 -145. Impact factor 2.20

Sarathi, M., Martin C. Simon, Venkatesan, C., John Thomas, Ravi, M., Sahul Hameed, A.S. (2010). 'Efficacy of bacterially expressed dsRNA specific to different structural genes of white spot syndrome virus (WSSV) to protect shrimp from WSSV infection. *Journal of Fish Diseases*, 2010;33;603 -607. Impact factor 2.04

Vellingiri Balachandar • Meyyazhagan Arun • Subramaniam Mohana Devi • Palanivel Velmurugan • Pappusamy Manikantan • Alagamuthu Karthick Kumar • Keshavarao Sasikala • Chinnakulandai Venkatesan (2010). Evaluation of the genetic alterations in direct and indirect exposures of hexavalent chromium [Cr(VI)] in leather tanning industry workers North Arcot District, South India. *Int Arch Occup Environ Health*. 2010 Oct;83(7):791-801. Epub 2010 Jul 9. DOI10.1007/s00420-010-0562-y. Impact factor 2.6

Rajeshkumar, S., Venkatesan, C., Sarathi, M., Sarathbabu, V., John Thomas, Anverbasha, K., Sahul hameed, A.S. (2009). Oral delivery of DNA construct using chitosan nanoparticles to protect the shrimp from white spot syndrome virus (WSSV). *Fish and Shellfish Immunology* 26, 429-437. Impact factor 3.715

N. Madan, N. Sundar Raj, M.A. Farook, S.Vimal ,C.Venkatesan , S. Abdul Majeed, K.S.N. Nambi, A.S. Sahul Hameed* (2013). 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*. Accepted. Impact factor 2.6

Vimal Sugumar; Abdul Majeed; Nathiga Nambi; Madan Nithiyanantham; Farook Mohammed; Venkatesan Chinnakulanthai; Taju Gani; Venu Shanmugam; Thirunavukarasu A.R; A. S. Sahul Hameed(2013) Delivery of DNA vaccine using Chitosan-Tripolyphosphate (CS/TPP) nanoparticles in Asian seabass (*Lates calcarifer*) for protection against betanodavirus infection.*Aquaculture* (Accepted).

C. Venkatesan*, S.Vimal, N.Madan, N.Sundar Raj, K.S.N.Nambi, S.Abdul Majeed, M.A.Farook, A.S.Sahul Hameed.(2012) Expression and distribution of three heat shock protein genes under exposure to White Spot Syndrome Virus (WSSV) in *Penaeus monodon*. Molecular Biology Reports (Accepted). Impact factor 2.7

S. Abdul Majeed, K.S.N. Nambi, G. Taj, S. Vimal, C.Venkatesan, A.S. Sahul Hameed(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 (Accepted).).

Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Biochemical analysis	Bangalore	Rs. 5,000	Completed/Ongoing

Participation in Workshop

Organized workshop on The Sahyadri Freshwater Biodiversity Conservation conducted by Eco club.

Organized training National workshop entitled “**Hands on training in Molecular and immunological techniques**” from State Council for Science and Technology (STCST), 20,000/-

Organized Science Academies Lecture Workshop “Recent advances in Biochemistry” on 10.09.2018 and 11.09.2018

Participation in Orientation Programme / Short Term Courses

Participated **Science Academies’ Refresher Course** on Developmental Biology in National Institute for Research in Reproductive Health, Mumbai and Sophia College for Women Mumbai on 16 to 28 November 2015.

Participated for UGC Sponsored Refresher Course , Life sciences (Biochemistry) in University Grants Commission, Human Resource Development Centre, University of Mysore, Karnataka, on 03.11.2016 to 23.11.2016

Participated **Science Academies’ Refresher Course** on Known to unknown techniques in Biology in Saint Josephs College, trichy, Tamil Nadu on 12 to 27 November 2018.

Participation in Faculty Development Programme

Quality Initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.

Conference / Seminar / Workshop Organized

Organized **DSIR, ICMR, DBT** Sponsored two days National conference on “Role of Biopharmaceuticals in Achieving Health by 2020” in Dr.N.G.P Arts and Science College, Coimbatore-48

Organized ICMR, **DBT** sponsored “Two days National Conference on “Changing Disease Profile: Challenges facing basic and Translational Cancer Research” on 05.10.2016 and 06.10.2016.

Organized Science Academies Lecture Workshop “Trends in Modern Biology” on 15.09.2016 and 16.09.2016

Organized **DBT** sponsored “one day international Conference on “Changing Disease Profile: Challenges facing basic and Translational Cancer Research” on 05.03.2018 .

Organized DST Sponsored **INSPIRE Science Camp 2015** was conducted by our Department of Biochemistry from 15th-20th August, 2015

Organized DST Sponsored **INSPIRE Science Camp 2016** was conducted by our Department of Biochemistry from 26th-30th December, 2016

Organized DST Sponsored **INSPIRE Science Camp 2017** was conducted by our Department of Biochemistry from 26th-30th August, 2017

Organized DST Sponsored **INSPIRE Science Camp 2018** was conducted by our Department of Biochemistry from 26th-30th July, 2018

Organized DST Sponsored **INSPIRE Science Camp 2018** was conducted by our Department of Biochemistry from 31st-4th September, 2018

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Mentor	Dr.N.G.P Arts and Science College	2020
Best work paper award	Dr.N.G.P Arts and Science College	2017
DST FAST TRACK YOUNG SCIENTIST	Department of Science and Technology, New Delhi, India. (2012 -2015)	2015
Post-Doctoral Research Fellowship (PDF)	Biotechnology Research Institute, University of Malaysia Sabha (UMS), Malaysia	2010

Senior Research Fellowship (SRF)	Council of Scientific and Industrial Research (CSIR), Human Resource Group, Government of India, New Delhi, India.	2007
Senior Research Fellowship (SRF)	Indian Council of Medical Research (ICMR), Government of India.	2008
Junior Research Fellowship (JRF)	Department of Biotechnology (DBT), Government of India, New Delhi, India.	2006

Recognition National / International

Nature of Recognition	Organization / Institution	Year
summer hand-on training programme	Indian Veterinary Research	2007