



Dr. A. Veera Ravi
Associate Professor

Contact

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Academic Qualifications: M.Sc., Ph.D.

Teaching Experience: 19 Years

Research Experience: 24 Years

Additional Responsibilities

- Swachh Bharat and Swasth Bharath Program Officer

Areas of Research

1. Bacterial cell to cell communication system – Quorum sensing.
2. Cataloguing of Quorum sensing inhibitor compounds producing marine microbes.
3. Selection and evaluation of probiotics for the prevention and control of aquaculture pathogens.
4. Molecular diagnosis of microbial pathogens among aquaculture organisms.
5. Molecular assessment of marine microbial diversity.
6. Screening for novel antimicrobial compounds from marine microbes.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	03	07
	M.Phil.	04	-
Project	PG	28	05

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
20	45	10	32	--

Cumulative Impact Factor (as per JCR) :	48.565
h-index :	13
i10 index :	18
Total Citations :	730

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	Apr-2007	Mar-2008	Selection and evaluation of potential Probiotics for the commercial production of Mud Crab seeds (<i>Scylla serrata</i> , Portunidae)	1.00
2	UGC	Feb-2009	Jan-2012	Quorum quenching mediated attenuation of virulence genes expression of pathogenic <i>Vibrio harveyi</i> infection in <i>Penaeus monodon</i>	12.16
3	DBT	Sep-2012	Mar-2016	Antipathogenic potential of marine cyanobacteria in preventing quorum sensing dependent bacterial infections among aquaculture organisms	55.09

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Tablets (India) Limited	Jul-2015	Jun-2017	Studies on effective control of EMS in the culture of <i>Litopenaeus vannamei</i>	22.26

Distinctive Achievements / Awards

1. National Merit Scholarships during M.Sc.,
2. Gold Medal in Ph.D
3. ICAR –SRF during 1990-1993

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 6

Events Participated

Conferences / Seminars / Workshops: 77

Other Training Programs: 2

1. Underwent UNU-UNESCO International Training Course on Biodiversity in Mangrove Ecosystems, 10-24 March, 2003, Centre of Advanced Study in Marine Biology, Annamalai University, Port Novo, Tamil Nadu, India.
2. Participated National Workshop on Techniques in Animal Cell Culture and *In Vitro* Toxicology Organized by Mahatma Gandhi-Doerenkamp Center (MGDC), Bharathidasan University, Tiruchirappalli, October 02-11, 2013.

Membership in

Professional Bodies

1. Life Member: Society of Biological Chemists, India (SBC)
2. Life Member: The Indian Science Congress Association
3. Life Member: Proteomics Society, India (PSI)
4. Life Member: Biotech Research Society, India (BRSI)
5. Life Member: Association of Microbiologists of India (AMI)

Academic Bodies (such as Board of Studies etc.,)

MEMBER IN BOARD OF STUDIES

1. M. Sc., Microbiology, Alagappa University (2011-2014)
2. B. Sc., Microbiology (Chairman), Alagappa University (2011-2014)

3. B. Sc., Biotechnology, Alagappa University (2012-2015)
4. M. Phil., Biotechnology, Alagappa University (2013)
5. B. Sc., Advanced Zoology & Animal Biotechnology (2015-2017)
6. B. Sc., Biotechnology, Alagappa University (2015-2017)
7. Biotechnology, Jamal Mohamed College, Thiruchirappalli (2015-2017)

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **17**

Others

1. No. of Ph.D. Thesis evaluated : **07**
2. No. of Ph.D. Public Viva Voce Examination conducted : **07**
3. Sequences submitted in GenBank: **111**

Recent Publications

1	Srinivasan R, Rama Devi K, Kannappan A, Karutha Pandian S, Ravi AV (2016). <i>Piper betle</i> and its bioactive metabolite phytol mitigates quorum sensing mediated virulence factors and biofilm of nosocomial pathogen <i>Serratia marcescens</i> <i>in vitro</i> . Journal of Ethnopharmacology, DOI: 10.1016/j.jep.2016.10.017. (IF: 3.055)
2	Rama Devi K, Srinivasan R, Kannappan A, Santhakumari S, Bhuvaneshwari M, Rajasekar P, Prabhu NM and Ravi AV (2016). <i>In vitro</i> and <i>in vivo</i> efficacy of rosmarinic acid on quorum sensing mediated biofilm formation and virulence factor production in <i>Aeromonas hydrophila</i> . Biofouling, 32(10): 1171-1183 (IF: 3.000)
3	Sivaranjani M, Gowrishankar S, Kamaladevi A, Pandian SK, Balamurugan K, Ravi AV (2016). Morin inhibits biofilm production and reduces the virulence of <i>Listeria monocytogenes</i> – An <i>in vitro</i> and <i>in vivo</i> approach. International Journal of Food Microbiology, DOI: 10.1016/j.ijfoodmicro.2016.08.021. (IF: 3.445)
4	Gowrishankar S, Sivaranjani M, Kamaladevi A, Veera Ravi A , Balamurugan K and Pandian SK (2016). Cyclic dipeptide cyclo(l-leucyl-l-prolyl) from marine <i>Bacillus amyloliquefaciens</i> mitigates biofilm formation and virulence in <i>Listeria monocytogenes</i> . FEMS Pathogen and Disease, 74, ftw017 (Impact factor: 2.483)
5	Sivaranjani M, Krishnan SR, Kannappan A, Ramesh M and Ravi AV (2016). Curcumin from <i>Curcuma longa</i> affects the virulence of <i>Pectobacterium wasabiae</i> and <i>P. caratovorum</i> subsp. <i>caratovorum</i> via quorum sensing regulation. European Journal of Plant Pathology, DOI: 10.1007/s10658-016-0957-z (Article in Press) (IF: 1.490)
6	Santhakumari S, Kannappan A, Pandian SK, Thajuddin N, Rajendran RB and Ravi AV (2015). Inhibitory effect of marine cyanobacterial extract on biofilm formation and virulence factor production of bacterial pathogens causing vibriosis in aquaculture. Journal of Applied Phycology, 28 (1): 313-24 (IF: 2.492)
7	Annapoorani A, Kalpana B, Musthafa KS, Pandian SK, and Ravi AV (2013). Antipathogenic potential of <i>Rhizophora</i> spp. against the quorum sensing mediated virulence production in drug resistant <i>Pseudomonas aeruginosa</i> . Phytomedicine, 20(11):956-63 (Impact factor: 3.268)

8.	Musthafa KS, Sahu SK, Ravi AV and Kathiresan K (2013). Anti-quorum sensing potential of the mangrove <i>Rhizophora annamalayana</i> . <i>World Journal of Microbiology and Biotechnology</i> , 29(10):1851-8 (Impact factor: 1.532)
9.	Packiavathy IASV, Sasikumar P, Pandian SK, Ravi AV (2013). Prevention of quorum sensing mediated biofilm development and virulence factors production in <i>Vibrio</i> spp. by curcumin. <i>Applied microbiology and Biotechnology</i> , 97(23): 10177-87 (Impact factor: 3.425)
10.	Packiavathy IASV, Priya S, Pandian SK, Ravi AV (2012). Inhibition of biofilm development of uropathogens by curcumin – An anti-quorum sensing agent from <i>Curcuma longa</i> . <i>Food Chemistry</i> , 148: 453-460 (Impact factor: 3.655)
11.	Musthafa KS, Sivamaruthi BS, Pandian SK and Ravi AV (2012). Quorum sensing inhibition in <i>Pseudomonas aeruginosa</i> PA01 by antagonistic compound phenyl acetic acid. <i>Current Microbiology</i> , 65: 475-480 (Impact factor: 1.51)
12	Annapoorani A, Umamageswaran V, Parameswari R, Pandian SK, Ravi AV (2012). Computational discovery of putative quorum sensing inhibitors against LasR and RhIR receptor proteins of <i>Pseudomonas aeruginosa</i> . <i>Journal of Computer - Aided Molecular Design</i> , 26: 1067-1077 (Impact factor: 3.386)
13	Annapoorani A, Jabbar AKKA, Musthafa SKS, Pandian SK, Ravi AV (2012). Inhibition of quorum sensing mediated virulence factors production in urinary pathogen <i>Serratia marcescens</i> PS1 by marine sponges. <i>Indian Journal of Microbiology</i> , 52: 160-166 (Impact factor: 0.938)
14	Annapoorani A, Parameswari R, Pandian SK and Ravi AV (2012). Methods to determine antipathogenic potential of phenolic and flavonoid compounds against urinary pathogen <i>Serratia marcescens</i> . <i>Journal of Microbiological Methods</i> , 91: 208-211 (Impact factor: 2.018)
15	Musthafa KS, Balamurugan K, Pandian SK and Ravi AV (2012). 2, 5 - piperazinedione inhibits quorum sensing dependent factors production in <i>Pseudomonas aeruginosa</i> PA01. <i>Journal of Basic Microbiology</i> , 52:1-8 (Impact factor:1.395)
16	Packiavathy ISV, Agilandeswari P, Musthafa KS, Pandian SK and Ravi AV (2012). Antibiofilm and quorum sensing inhibitory potential of <i>Cuminum cyminum</i> and its secondary metabolite methyl eugenol against Gram negative bacterial pathogens. <i>Food Research International</i> , 45: 85-92 (Impact Factor: 3.150)
17	Musthafa KS, Pandian SK and Ravi AV (2012). Inhibition of quorum sensing dependent phenotypic expressions in <i>Serratia marcescens</i> by marine sediment <i>Bacillus</i> spp. SS4. <i>Annals of Microbiology</i> , 62:443-447 (Impact factor: 0.358)
18	Packiavathy ISV, Agilandeswari P, Rajendran RB, Pandian SK and Ravi AV (2011). Anti-quorum sensing and antibiofilm potential of <i>Capparis spinosa</i> . <i>Archives of Medical Research</i> , 42: 658-668 (Impact factor:1.733)
19	Musthafa KS, Saroja V, Pandian SK and Ravi AV (2011). Antipathogenic potential of marine <i>Bacillus</i> sp. SS4 on N-acyl homoserine lactone mediated virulence factors production in <i>Pseudomonas aeruginosa</i> (PA01). <i>Journal of Biosciences</i> , 36: 55 – 67 (Impact factor: 1.956)
20	Nithyanand P, Indhumathi T, Ravi AV and Pandian SK (2011). Culture independent characterization of bacteria associated with the mucus of the coral <i>Acropora digitifera</i> from the Gulf of Mannar. <i>World Journal of Microbiology and Biotechnology</i> , 27:1399-1406 (Impact Factor: 1.082)