



Dr. A. Veera Ravi
Professor

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ResearchGate

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

Teaching Experience: 20 Years +

Research Experience: 25 Years +

Additional Responsibilities

- Dean i/c – College Development Council (Alagappa University)
- Director – Curriculum Development Cell (Alagappa University)
- Former Special Officer – Planning and Development (Alagappa University)
- RUSA Deputy Coordinator
- Swachh Bharat and Swasth Bharath Program Officer
- Intellectual Property Cell member
- Start-up cell Coordinator
- Incubation and Technology Transfer Centre Deputy Coordinator
- Members of advisory committee ALUTES-2019
- Administrative and Technical advisory member for USIC

Areas of Research

1. Bacterial Communication System– Quorum Sensing
2. Identification and evaluation of anti-QS compounds against bacterial infections through *in vitro* and *in vivo* studies
3. Understanding the QS-inhibition mode of anti-QS compounds through *in silico* and transcriptomic analysis
4. Zebrafish Model System for understanding bacterial infections
5. Probiotics for Aquaculture
6. Marine Natural Products
7. Bioactive Nanomaterials for Aquaculture

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	NPDF	1	1
	Ph.D.	8	4
	M.Phil.	4	Nil
Project	PG	38	5
	UG / Others (ADMD)	1	Nil

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
55	61	13	45	04

Cumulative Impact Factor (as per JCR) : 168.296
H-index : 23
i10 index : 40
Total Citations : 2050

Google scholar: <https://scholar.google.co.in/citations?hl=en&user=LTS5RfgAAAAJ>

Funded Research Projects

Completed Projects

1. Principal Investigator in UGC sponsored project on “Selection and evaluation of potential Probiotics for the commercial production of Mud Crab seeds (*Scylla serrata*, Portunidae)” from **01.04.2007 to 31.03.2008**. Sanctioned amount **Rs. 1.00 lakh**.
2. Co-Investigator in DBT sponsored project on “Evaluation of bacterial diversity associated with coral *Acropora digitifera* by 16S rRNA gene sequences for antiviral activity against the aquaculture pathogen blotched Snakehead Virus”, from **22.09.2006 to 21.09.2009**. Sanctioned amount **Rs. 36.315 lakhs**.
3. Principal Investigator in UGC sponsored major research project on “Quorum quenching mediated attenuation of virulence genes expression of pathogenic *Vibrio harveyi* infection in *Penaeus monodon*” for the period of three years w.e.f. **01.02.2009 to 31.01.2012** with sanctioned amount of **Rs. 12.34 lakhs**.
4. Co-Principal Investigator in DBT sponsored major research project on “Bioprospecting marine microbial wealth through metagenomics” for the period of three years from **13.09.2010 to 12.09.2013** with sanctioned amount of **Rs. 49. 36 lakhs**.
5. Principal Investigator in DBT sponsored major research project on “Antipathogenic potential of marine cyanobacteria in preventing quorum sensing dependent bacterial infections among aquaculture organisms” for the period of three years from **29.09.2012 to 28.03.2016** with sanctioned amount of **Rs. 55.09 lakhs**.
6. Principal Investigator in Tablets (India) Limited sponsored research project on “Studies on effective control of EMS in the culture of *Litopenaeus vannamei*” for the period of two years from **01.07.2015 to 30.4.2018** with sanctioned amount of **Rs. 22.26 lakhs**.
7. Co-Principal Investigator in Committee for Safety Research Programme (CSRP), Atomic Energy Regulatory Board (AERB), Govt. of India, Mumbai sponsored major research project on “Studies on microbial diversity and ecology in the vicinity of a coastal nuclear power plant in relation to water quality and nutrients” for the period of three years from **21.04.2015 to 20.04.2018** with sanctioned amount of **Rs. 32.22 lakhs**.

Ongoing Projects

S.No	Agency	Period		Title	Rs in lakhs
		From	To		
1.	Evolva Biotech Private Limited, Chennai	2017	2020	Anti-infective and antipathogenic efficacy of resveratrol against quorum sensing mediated virulence and biofilm formation of aquatic pathogens: A promising alternative strategy to antibiotic in aquaculture	30.00

Distinctive Achievements / Awards

- 2019 : Distinguished Professor Award from DKIR Foundation
1996 : University Gold Medal for the best Ph. D., thesis.
1991-1994 : ICAR Senior Research Fellowship
1986-1988 : UGC's National Merit Scholarship during M.Sc.

Events organized in leading roles

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

Events Participated (optional)

Conferences / Seminars / Workshops: **106**

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 & Academic Bodies

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.)

1. M.Sc., Biotechnology, Alagappa University (Till Date)
2. M. Sc., Microbiology, Alagappa University (2011-2014)

3. B. Sc., Microbiology (Chairman), Alagappa University (2011-2014)
4. B. Sc., Biotechnology, Alagappa University (2012-2015)
5. M. Phil., Biotechnology, Alagappa University (2013)
6. B. Sc., Advanced Zoology & Animal Biotechnology (2015-2017)
7. B. Sc., Biotechnology, Alagappa University (2015-2017)
8. B.Sc., and M.Sc., Biotechnology, Jamal Mohamed College, Thiruchirappalli (2015-2017)
9. M.Sc., Microbiology, Madurai Kamaraj University, Madurai (2019-Till Date)
10. B.Sc., and M.Sc., Biotechnology, Cauvery College, Thiruchirappalli (2019-Till Date)
11. B.Sc., and M.Sc., Microbiology, Cauvery College, Thiruchirappalli (2019-Till Date)
12. Member- Result Passing Board, Thassim Beevi Abdul Kadar College for Woman, Kilakarai.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **25**

Others

1. No. of PhD Thesis evaluated : **10**
2. No. of PhD Public Viva Voce Examination conducted : **10**
3. Sequences submitted in GenBank: **141**

Recent Publications

1. Abirami G, Alexpandi R, Durgadevi R, Kannappan A and **Ravi AV*** (2020). Inhibitory effect of morin against *Candida albicans* pathogenicity and virulence factor production: An *in vitro* and *in vivo* approaches. [Frontiers in Microbiology](#). (Accepted Manuscript) (**IF: 4.235**).
2. Alexpandi R, De Mesquita JF, Pandian SK and **Ravi AV*** (2020) Quinolines-Based SARS-CoV-2 3CLpro and RdRp Inhibitors and Spike-RBD-ACE2 Inhibitor for Drug-Repurposing Against COVID-19: An *in silico* Analysis. [Frontiers in Microbiology](#). 11:1796. (**IF: 4.235**).
3. Alexpandi R, Chandu VV, Muralee G, Durgadevi R, Hee-Je Kim, Pandian SK and **Ravi AV*** (2020). Metal sensing-carbon dots loaded TiO₂ nanocomposite for photocatalytic bacterial deactivation and control acute-hepatopancreatic necrosis disease (AHPND) in aquaculture. [Scientific Reports](#), 10: 12883. (**IF: 3.998**).
4. Durgadevi R, Kaleeshwari R, Swetha TK, Alexpandi R, Pandian SK and **Ravi AV*** (2020). Attenuation of *Proteus mirabilis* colonization and swarming motility on indwelling urinary catheter by antibiofilm impregnation: an *in vitro* study. [Colloids and Surfaces B: Biointerfaces](#), 111207. (**IF: 4.389**).
5. Kannappan A, Durgadevi R, Srinivasan R, Lagoa R, Packiavathy IASV, Pandian SK and **Ravi AV*** (2020). 2-Hydroxy-4-methoxybenzaldehyde from *Hemidesmus indicus* is

antagonist to *Staphylococcus epidermidis* biofilm formation. [Biofouling](#), (Article accepted, in press) (IF: 2.786).

6. Balaji M, Nithya P, Kasirajan K, Alexpandi R, Mayakrishnan A, Palanisamy S, Jegatheeswaran S, Selvam S, **Ravi AV**, Karunakaran M, Cai Y (2020). Fabrication of heteroatom doped NFP-MWCNT and NFB-MWCNT nanocomposite from imidazolium ionic liquid functionalized MWCNT for antibiofilm and wound healing in Wistar rats: Synthesis, characterization, *in-vitro* and *in-vivo* studies. [Materials Science and Engineering: C](#), 110791 (IF: 5.88).
7. Venil CK, Velmurugan P, Dufossé L, Devi, PR, **Ravi AV*** (2020). Fungal Pigments: Potential Coloring Compounds for Wide Ranging Applications in Textile Dyeing. [Journal of Fungi](#), 6, 68. (IF: 4.621).
8. Princely SX, Puja P, Vinita MN, Devan U, Velangani AJ, Sunita S, Yuvakkumar R, Velmurugan P, **Ravi AV***, Govarthanan M, Kumar P (2020). Anti-proliferative and anti-migratory effects of flower-like bimetallic (Au@ Pt) nanoparticles. [Materials Letters](#), 267, 127491 (IF: 3.019).
9. Elango D, Manikandan V, Jayanthi P, Velmurugan P, Balamuralikrishnan B, **Ravi AV**, Shivakumar MS (2020). Selection and characterization of extracellular enzyme production by an endophytic fungi *Aspergillus sojae* and its bio-efficacy analysis against cotton leaf worm, *Spodoptera litura*. [Current Plant Biology](#), 100153.
10. Suresh G, Kokila D, Suresh TC, Kumaran S, Velmurugan P, Vedhanayakisri KA, Sivakumar S, **Ravi AV** (2020). Mycosynthesis of anticancer drug taxol by *Aspergillus oryzae*, an endophyte of *Tarenna asiatica*, characterization, and its activity against a human lung cancer cell line. [Biocatalysis and Agricultural Biotechnology](#), 24, 101525.
11. Durgadevi R, Abirami G, Alexpandi R, Nandini N, Kumar P, **Ravi AV*** (2019). Explication of the potential of 2-hydroxy-4-methoxy benzaldehyde in hampering uropathogenic *Proteus mirabilis* crystalline biofilm and virulence. [Frontiers in Microbiology](#), 10:2804. (IF: 4.235).
12. Alexpandi R, Prasanth MI, **Ravi AV***, Balamurugan K, Durgadevi R, Srinivasan R, De Mesquita J, Pandian SK (2019). Protective effect of neglected plant *Diplocyclos palmatus* on quorum sensing mediated infection of *Serratia marcescens* and UV-A induced photoaging in model *Caenorhabditis elegans*. [Journal of Photochemistry and Photobiology B: Biology](#), 201, 111637. (IF: 4.383).
13. Kannappan A, Santhakumari S, Srinivasan R, Pandian SK, **Ravi AV*** (2019). *Hemidesmus indicus*, a traditional medicinal plant, targets the adherence of multidrugresistant pathogens to form biofilms. [Biocatalysis and Agricultural Biotechnology](#), 21, 101338.
14. Kannappan A, Srinivasan R, Nivetha A, Annapoorani A, Pandian SK, **Ravi AV*** (2019). Anti-virulence potential of 2-hydroxy-4-methoxybenzaldehyde against methicillin-resistant *Staphylococcus aureus* and its clinical isolates. [Applied Microbiology and Biotechnology](#), 103, 6747-6758. (IF: 3.530).

15. Durgadevi R, **Ravi AV***, Alexpandi R, Krishnan Swetha T, Abirami G, Vishnu S, Karutha Pandian S (2019). Virulence targeted inhibitory effect of linalool against the exclusive uropathogen *Proteus mirabilis*. [Biofouling](#), 35, 508-525. (IF: 2.980).
16. Packiavathy IA, Maruthamuthu S, Gnanaselvan G, Manoharan S, Paul JB, Annapoorani A, Kannappan A, **Ravi AV*** (2019). The control of microbially induced corrosion by methyl eugenol—A dietary phytochemical with quorum sensing inhibitory potential. [Bioelectrochemistry](#), 128, 186-192. (IF: 4.722).
17. Sivaranjani M, Leskinen K, Aravindraja C, Saavalainen P, Pandian SK, Skurnik M and **Ravi AV***. (2019). Deciphering the antibacterial mode of action of alpha-mangostin on *Staphylococcus epidermidis* RP62A through an integrated transcriptomic and proteomic approach. [Frontiers in Microbiology](#), 10, 150. (IF: 4.235).
18. Kannappan A, Balasubramaniam B, Ranjitha R, Srinivasan R, Abraham SVPI, Balamurugan K and **Ravi AV***. (2019). *In vitro* and *in vivo* biofilm inhibitory efficacy of geraniol-cefotaxime combination against *Staphylococcus* spp. [Food and Chemical Toxicology](#), 125, 322-332 (IF: 4.679).
19. Salini R, Santhakumari S, **Ravi AV**, Pandian SK (2018). Synergistic antibiofilm efficacy of undecanoic acid and auxins against quorum sensing mediated biofilm formation of luminescent *Vibrio harveyi*. [Aquaculture](#), 498, 162-170. (IF: 3.224).
20. Kannappan A, Mohankumar R, Srinivasan R, Archunan G, Pandian SK, Ruckmani K and **Ravi AV*** (2018). *In vivo* protective effect of geraniol on colonization of *Staphylococcus epidermidis* in rat jugular vein catheter model. [Pathogens and Disease](#), 76, fty055. (IF: 2.166).
21. Santhakumari S, Jayakumar R, Logalakshmi R, Prabhu NM, Nazar AK, Pandian SK, **Ravi AV*** (2018). *In vitro* and *in vivo* effect of 2, 6-Di-tert-butyl-4-methylphenol as an antibiofilm agent against quorum sensing mediated biofilm formation of *Vibrio* spp. [International Journal of Food Microbiology](#), 281, 60-71. (IF: 4.187).
22. Devi KR, Srinivasan S and **Ravi AV*** (2018). Inhibition of quorum sensing-mediated virulence in *Serratia marcescens* by *Bacillus subtilis* R-18. [Microbial Pathogenesis](#), 120, 166-175. (IF: 2.914).
23. Sivaranjani M, Srinivasan R, Aravindraja C, Pandian SK and **Ravi AV*** (2018). Inhibitory effect of α -mangostin on *Acinetobacter baumannii* biofilms - an *in vitro* study. [Biofouling](#), 34(5), 579-593 (IF: 2.351).
24. Srinivasan R, Kannappan A, Sivasankar C, Rathika S, Pandian SK and **Ravi AV*** (2018). Biofilm inhibitory efficiency of phytol in combination with cefotaxime against nosocomial pathogen *Acinetobacter baumannii*. [Journal of Applied Microbiology](#), 125(1), 56-71 (IF: 3.066).
25. Durgadevi R, Srinivasan R, Kannappan A, Ponraj GJ, Pandian SK and **Ravi AV*** (2018). Phytosynthesized silver nanoparticles as anti-quorum sensing and antibiofilm agent against

the nosocomial pathogen *Serratia marcescens*: an *in vitro* study. [Journal of Applied Microbiology](#), 124(6), 1425-1440 (IF: 3.066).

26. Srinivasan R, Vigneshwari L, Rajavel T, Durgadevi R, Kannappan A, Balamurugan K, Devi KP and **Ravi AV*** (2017). Biogenic synthesis of silver nanoparticles using *Piper betle* aqueous extract and evaluation of its anti-quorum sensing and antibiofilm potential against uropathogens with cytotoxic effects: An *in vitro* and *in vivo* approach. [Environmental Science and Pollution Research](#), 1-17. (IF: 3.0).
27. Srinivasan R, Mohankumar R, Kannappan A, Karthick Raja V, Archunan G, Pandian SK, Ruckmani K and **Ravi AV*** (2017). Exploring the anti-quorum sensing and antibiofilm efficacy of phytol against *Serratia marcescens* associated acute pyelonephritis infection in Wistar rats. [Frontiers in Cellular and Infection Microbiology](#), 7, 498. (IF: 4.3).
28. Srinivasan R, Durgadevi R, Kannappan A and **Ravi AV*** (2017). Inhibition of quorum sensing-dependent biofilm and virulence genes expression in environmental pathogen *Serratia marcescens* by petroselinic acid. [Antonie van Leeuwenhoek](#), 111(4), 501-515. (IF: 2.090)
29. Satish L, Santhakumari S, Gowrishankar S, Pandian SK, **Ravi AV** and Ramesh M (2017). Rapid biosynthesized AgNPs from *Gelidiella acerosa* aqueous extract mitigates quorum sensing mediated biofilm formation of *Vibrio* species-An *in vitro* and *in vivo* approach. [Environmental Science and Pollution Research](#), 24(35), 27254-27268. (IF: 3.0)
30. Santhakumari S, Nilofernisha NM, Ponraj JG, Pandian SK and **Ravi AV*** (2017). *In vitro* and *in vivo* exploration of palmitic acid from *Synechococcus elongatus* as an antibiofilm agent on the survival of *Artemia franciscana* against virulent vibrios. [Journal of Invertebrate Pathology](#), 150, 21-31. (IF: 2.074).
31. Kannappan A, Sivaranjani M, Srinivasan R, Rathna J, Pandian SK and **Ravi AV*** (2017). Inhibitory efficacy of geraniol on biofilm formation and development of adaptive resistance in *Staphylococcus epidermidis* RP62A. [Journal of Medical Microbiology](#), 66(10), 1506-1515. (IF: 2.156).
32. Kannappan A, Gowrishankar S, Srinivasan R, Pandian SK and **Ravi AV*** (2017). Antibiofilm activity of *Vetiveria zizanioides* root extract against methicillin-resistant *Staphylococcus aureus*. [Microbial Pathogenesis](#), 110: 313-324 (IF: 2.914).
33. Srinivasan R, Santhakumari S and **Ravi AV*** (2017). *In vitro* antibiofilm efficacy of *Piper betle* against quorum sensing mediated biofilm formation of luminescent *Vibrio harveyi*. [Microbial Pathogenesis](#), 110:232-239 (IF: 2.914).
34. Sivaranjani M, Prakash M, Gowrishankar S, Rathna @ Nandhini J, Pandian SK and **Ravi AV*** (2017). *In vitro* activity of α -mangostin in killing and eradicating *Staphylococcus epidermidis* RP62A biofilms. [Applied Microbiology and Biotechnology](#), 101(8), 3349-3359 (IF: 3.530).

35. Edward GJG, Godfred PJ and **Ravi AV*** (2017). Effect of Extramin on growth enhancement of white leg shrimp *Litopenaeus vannamei* (Boone, 1931) in low saline semi-intensive pond culture system. [International Journal of Fisheries and Aquatic Studies](#), 5(2): 479-486.
36. Srinivasan R, Rama Devi K, Kannappan A, Karutha Pandian S, **Ravi AV*** (2016). *Piper betle* and its bioactive metabolite phytol mitigates quorum sensing mediated virulence factors and biofilm of nosocomial pathogen *Serratia marcescens* *in vitro*. [Journal of Ethnopharmacology](#), 193:592-603 (**IF: 3.690**).
37. Devi KR, Srinivasan R, Kannappan A, Santhakumari S, Bhuvaneshwari M, Rajasekar P, Prabhu NM and **Ravi AV*** (2016). *In vitro* and *in vivo* efficacy of rosmarinic acid on quorum sensing mediated biofilm formation and virulence factor production in *Aeromonas hydrophila*. [Biofouling](#), 32(10):1171-1183 (**IF: 2.980**).
38. Sivaranjani M, Gowrishankar S, Kamaladevi A, Pandian SK, Balamurugan K, **Ravi AV*** (2016). Morin inhibits biofilm production and reduces the virulence of *Listeria monocytogenes* – An *in vitro* and *in vivo* approach. [International Journal of Food Microbiology](#), 237:73-82 (**IF: 4.187**).
39. Gowrishankar S, Sivaranjani M, Kamaladevi A, **Ravi AV**, Balamurugan K and Pandian SK (2016). Cyclic dipeptide cyclo(l-leucyl-l-prolyl) from marine *Bacillus amyloliquefaciens* mitigates biofilm formation and virulence in *Listeria monocytogenes*. [FEMS Pathogens and Disease](#), 74 (4): ftw017 (**IF: 2.166**).
40. Sivaranjani M, Krishnan SR, Kannappan A, Ramesh M and **Ravi AV*** (2016). Curcumin from *Curcuma longa* affects the virulence of *Pectobacterium wasabiae* and *P. caratovorum* subsp. *caratovorum* via quorum sensing regulation. [European Journal of Plant Pathology](#), 146(4): 793–806 (**IF: 1.5**).
41. 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): 313-324 (**IF: 3.016**).
42. Annapoorani A, Kalpana B, Musthafa KS, Pandian SK, and **Ravi AV*** (2013). Antipathogenic potential of *Rhizophora* spp. against the quorum sensing mediated virulence production in drug resistant *Pseudomonas aeruginosa*. [Phytomedicine](#), 20(11):956-63 (**IF: 4.268**).
43. Musthafa KS, Sahu SK, **Ravi AV*** and Kathiresan K (2013). Anti-quorum sensing potential of the mangrove *Rhizophora annamalayana*. [World Journal of Microbiology and Biotechnology](#), 29(10):1851-8 (**IF: 2.8**).
44. Packiavathy IASV, Sasikumar P, Pandian SK, **Ravi AV*** (2013). Prevention of quorum sensing mediated biofilm development and virulence factors production in *Vibrio* spp. by curcumin. [Applied Microbiology and Biotechnology](#), 97(23): 10177-87 (**IF: 3.530**).

45. Packiavathy IASV, Priya S, Pandian SK, **Ravi AV*** (2012). Inhibition of biofilm development of uropathogens by curcumin – An anti-quorum sensing agent from *Curcuma longa*. [Food Chemistry](#), 148: 453-460 (**IF: 6.303**).
46. Musthafa KS, Sivamaruthi BS, Pandian SK and **Ravi AV*** (2012). Quorum sensing inhibition in *Pseudomonas aeruginosa* PAO1 by antagonistic compound phenyl acetic acid. [Current Microbiology](#), 65: 475-480 (**IF: 1.746**).
47. 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 *Pseudomonas aeruginosa*. [Journal of Computer - Aided Molecular Design](#), 26: 1067-1077 (**IF: 3.220**).
48. Annapoorani A, Jabbar AKKA, Musthafa SKS, Pandian SK, **Ravi AV*** (2012). Inhibition of quorum sensing mediated virulence factors production in urinary pathogen *Serratia marcescens* PS1 by marine sponges. [Indian Journal of Microbiology](#), 52: 160-166 (**IF: 1.830**).
49. Annapoorani A, Parameswari R, Pandian SK and **Ravi AV*** (2012). Methods to determine antipathogenic potential of phenolic and flavonoid compounds against urinary pathogen *Serratia marcescens*. [Journal of Microbiological Methods](#), 91: 208-211 (**IF: 1.707**).
50. Musthafa KS, Balamurugan K, Pandian SK and **Ravi AV*** (2012). 2, 5 – piperazinedione inhibits quorum sensing dependent factors production in *Pseudomonas aeruginosa* PAO1. [Journal of Basic Microbiology](#), 52:1–8 (**IF: 1.909**).
51. Packiavathy ISV, Agilandeswari P, Musthafa KS, Pandian SK and **Ravi AV*** (2012). Antibiofilm and quorum sensing inhibitory potential of *Cuminum cyminum* and its secondary metabolite methyl eugenol against Gram negative bacterial pathogens. [Food Research International](#), 45: 85–92 (**IF: 4.972**).
52. Musthafa KS, Pandian SK and **Ravi AV*** (2012). Inhibition of quorum sensing dependent phenotypic expressions in *Serratia marcescens* by marine sediment *Bacillus* spp. SS4. [Annals of Microbiology](#), 62:443–447 (**IF: 1.570**).
53. Packiavathy ISV, Agilandeswari P, Rajendran RB, Pandian SK and **Ravi AV*** (2011). Anti-quorum sensing and antibiofilm potential of *Capparis spinosa*. [Archives of Medical Research](#), 42: 658–668 (**IF: 2.093**).
54. Musthafa KS, Saroja V, Pandian SK and **Ravi AV*** (2011). Antipathogenic potential of marine *Bacillus* sp. SS4 on N-acyl homoserine lactone mediated virulence factors production in *Pseudomonas aeruginosa* (PAO1). [Journal of Biosciences](#), 36: 55 – 67 (**IF: 1.645**).
55. Nithyanand P, Indhumathi T, **Ravi AV** and Pandian SK (2011). Culture independent characterization of bacteria associated with the mucus of the coral *Acropora digitifera* from the Gulf of Mannar. [World Journal of Microbiology and Biotechnology](#), 27:1399-1406 (**IF: 2.477**).
56. Musthafa KS, **Ravi AV***, Annapoorani A, Packiavathy ISV and Pandian SK (2010). Evaluation of antiquorum sensing activity of edible plants and fruits through inhibition of the

N-acyl homoserine lactone system in *Chromobacterium violaceum* and *Pseudomonas aeruginosa*. [Chemotherapy](#), 56: 333-339 (IF: 1.641)

57. Kadhivel K, Ramya S, Sudha TPS, **Ravi AV**, Rajasekaran C, Selvi RV and Jayakumararaj R (2010). Ethnomedicinal survey on plants used by tribals in Chitteri Hills. Environment and We - [An International Journal of Science and Technology](#), 5:35-46.
58. Sivaperumal R, Ramya S, **Ravi AV**, Rajasekaran C and Jayakumararaj R. Ethnopharmacological studies on the medicinal plants used by tribal inhabitants of Kottur Hills, Dharmapuri, Tamilnadu, India. Environment and We - [An International Journal of Science and Technology](#), 5:57-64.
59. Musthafa KS, **Ravi AV***, Annapoorani Jayakumararaj R, Pandian SK (2009). Cross species signal transfer mediated induction of antibiotic production in Actinomycetes against *Staphylococcus aureus*. [Journal of Pharmacy Research](#), 3: 397-400.
60. Sivaperumal R, Ramya S, **Ravi AV**, Rajasekaran C and Jayakumararaj R (2009). Herbal Remedies practiced by Malayali's to treat skin diseases, Environment and We - [An International Journal of Science and Technology](#), 4: 65 – 74.
61. **Ravi AV**, Musthafa KS, Jegathammbal G, Kathiresan K and Pandian SK (2007). Screening and evaluation of probiotics as a biocontrol agent against pathogenic Vibrios in marine aquaculture, [Letters in Applied Microbiology](#), 45: 219-223 (IF: 2.173).
62. Kannupandi T, **Ravi AV** and Soundrapandian P (2006). Biochemical changes in relation to larval development of the Portunid crab *Charybdis lucifera* (Fabricius). [Indian Journal of Fisheries](#), 53: 225-230.
63. Babu TG, Nithyanand P, Kannapiran E, **Ravi AV** and Pandian SK (2004). Molecular identification of bacteria associated with the coral reef ecosystem of Gulf of Mannar Marine Biosphere Reserve using 16S rRNA sequences. [Proceedings of MBR on New Frontiers in Marine Bioscience Research](#), 47-53.
64. Kannupandi T, **Ravi AV** and Soundrapandian P (2003). Efficacy of enriched diets on the larval development and survival of an edible crab *Charybdis lucifera* (Fabricius). [Indian Journal of Fisheries](#), 50: 21-23.
65. Godfred J, **Ravi AV** and Kannupandi T (1997). Larval feed preference of the estuarine edible Portunid crab *Thalamita crenata*. [Indian Journal of Fisheries](#), 44: 69-74.
66. Godfred J, **Ravi AV** and Kannupandi T (1995). Seed production of the edible estuarine Portunid crab *Thalamita crenata*. [Indian Journal of Aquaculture Tropics](#), 10: 213-219.
67. **Ravi AV** and Kathiresan K (1990). Seasonal Variation in gallotannins. [Indian Journal of Marine Science](#), 19: 224-225.
68. Kathiresan K and **Ravi AV** (1990). Seasonal changes in the content of mangrove leaves. [The Indian Forester](#), 116: 390-392.

***Corresponding Author**

Book Chapters

1. Santhakumari S, **Ravi AV** (2019). Targeting quorum sensing mechanism: An alternative anti-virulent strategy for the treatment of bacterial infections. [South African Journal of Botany](#). Elsevier Publishers. (Accepted for publication).
2. Devi KR, Bhuvaneshwari M, Pandian SK and **Ravi AV** (2017). *In vitro* efficiency of Flavonoids on inhibiting hemolysin production in *Aeromonas hydrophila*. [Revamping Microbial Biotechnology](#), ISBN: 978-93-81402-35-1
3. Srinivasan R, Abirami G, Karthikayan P and **Ravi AV** (2017). Quorum quenching enzyme produced by marine bacterial isolate mitigates the quorum sensing controlled virulence factors production in *Serratia marcescens*. [Life Science: Research, Practices and Application for Sustainable Development](#). Macmillan Publishers India Pvt. Ltd, 649-660 (International ISBN: 9789387000070).
4. **Ravi AV**, Santhakumari S and Ponraj JG (2017). Quorum sensing inhibitors from natural resources as an alternate to antibiotics in aquaculture. [Impact of ecological changes on public health: A sustainable approach through green technologies](#). Springer Publishers (Accepted for publication).

Patents

S. No.	Title	Inventors	Patent Number	Filing Date	Current Status
1.	Phytochemical formulations against early mortality syndrome (EMS)	Ravi AV , Santhakumari S, Durgadevi R, Alexpandi R and Pandian SK	Application No. 201841010325	21.03.2018	Published
2	Phytochemical formulations against early mortality syndrome (EMS)	Ravi AV , Santhakumari S, Durgadevi R, Alexpandi R and Pandian SK	Application No. 201841010346	21.03.2018	Published
3	An antibacterial composition and implementations thereof	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Ravi AV , Bhaskar JP, Venkateswaran K, Deepa M, Das SS	Application No. 201831008480	07.03.2018	Published
4	A composition comprising phytochemicals and applications thereof	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Ravi AV , Bhaskar JP, Venkateswaran K, Deepa M, Das SS	Application No. 201831008480	07.03.2018	Published
5	A composition comprising phytochemicals and	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Ravi	Application No. 201831008480	07.03.2018	Published

	applications thereof	AV , Bhaskar JP, Venkateswaran K, Deepa M, Das SS			
6	Antibacterial composition and uses thereof	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Ravi AV , Bhaskar JP, Venkateswaran K, Deepa M, Das SS	Application No. 201831008480	07.03.2018	Published