



Dr. S. Karutha Pandian
Professor & Head

Contact

Address : Department of Biotechnology
Science Campus
Alagappa University
Karaikudi - 630 003
Tamil Nadu, India

Employee Number : 54101

Date of Birth : May 21, 1962

Contact Phone (Office) : +91 4565 225215

Contact Phone (Mobile) : +91 9442318144

Contact e-mail(s) : sk_pandian@rediffmail.com; pandiansk@gmail.com

Skype id : pandiansk@gmail.com

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

Teaching and Research Experience: 30 years +

At Alagappa University

Designation	From	To
Reader & Head, Biotechnology	March 11, 2002	May 24, 2005
Professor & Head, Biotechnology	May 25, 2005	Till date

Additional Academic Responsibilities

2006-Till Date : Coordinator: Bioinformatics Infrastructure Facility (funded by DBT, Govt. of India)

2008-2013 : Coordinator: Post M.Sc., Advanced Diploma in Molecular Diagnostics (funded by DBT, Govt. of India)

2002- Till Date : Coordinator: M.Sc., Biotechnology Programme (supported by DBT one time grant)

2009- Till Date : Chairperson of Project Implementation Group, DST-FIST Programme (Level 1-Phase I and II)

2011-2016 : Coordinator: UGC-SAP (DRS-I)

2013-2014 : Coordinator: DST-PURSE Scheme

Additional Administrative Responsibilities

S. No	Position	University Bodies	Period	
			From	To
1	Member of the VC Officiating Committee*	Alagappa University	27.09.2013	04.06.2015
2	Member of the Syndicate*	Alagappa University	22.01.2013	21.01.2016
3	Member of the Finance Committee	Alagappa University	22.12.2014	21.01.2016
4	Member of the Planning Board*	Alagappa University	27.01.2012	26.01.2015
5	Member	Senate, Alagappa University	2002	Till Date
6	Member	Standing Committee on Academic Affairs, Alagappa University	2002	Till Date
7	Dean (Research)	Alagappa University	04.11.2010	19.02.2014
8	Dean: Faculty of Science	Alagappa University	09.05.2013	08.05.2016
9	Director: Science Campus	Alagappa University	27.05.2013	20.02.2017
10	Member, Internal Quality Assurance Cell	Alagappa University	18.07.2006-	08.05.2016
11	Special Officer (Planning & Development)	Alagappa University	14.05.2007-	30.06.2008
12	Warden, PG Men's Hostel	Alagappa University	11.10.2004	09.05.2007
13	Warden, Science Block-Women's Hostel	Alagappa University	18.06.2012	19.02.2014
14	Member	NAAC Steering Committee	2004	2005
15	Member, Building Committee	Alagappa University	25.01.2011	24.01.2014
16	Director, IQAC	Alagappa University	07.07.2017	Till Date

*Nominated by the Governor-Chancellor.

Areas of Research

- **Alternative to Antibiotics:** Exploration of natural sources (which do not exert any Darwinian selection pressure) as anti-quorum sensing and antibiofilm agents against human and aquaculture pathogens.
- **Functional Genomics and Proteomics:** Elucidation of mechanism of action of antibiofilm compounds against bacterial and fungal pathogens through transcriptomic and proteomic approaches.
- **Understanding the molecular basis of Group A Streptococcal pathogenesis.**
- **Microbial Genomics and Molecular Phylogeny:** Molecular cataloguing and bioprospecting of bacterial diversity associated with various ecosystems of Gulf of Mannar and Palk Bay through culture dependent and independent (including metagenomics and metaproteomic) approaches.
- **Translational Biotechnology:** Development and evaluation of biocosmeceuticals and formulations thereof.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	20	8
Project	PG	68	-
	Post M.Sc., Adv Dip in Molecular Diagnostics	43	-
	UG (B. Tech.)	5	-

Publications

International		National		Others
Journals (SCI)	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
158	148	--	144	Books : 01 Chapters: 17 Reviews : 06 Manuals : 02

Cumulative Impact Factor (as per JCR) :	373.356
h-index :	32
i10 index :	92
Total Citations :	3570

Patents

S. No.	Title	Inventors	Patent Number	Filing Date	Current Status
1.	A composition comprising of <i>curcuma aromatica</i> oil, and undecanoic acid and uses thereof	Sivasankar Chandran, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	1732/CHE/2015	31.03.2015	Published
2	A composition comprising of embelin, and at least one anti-fungal agent and uses thereof	Sivasankar Chandran, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	1734/CHE/2015	31.03.2015	Published
3	Personal care compositions for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	676/KOL/2015	18.06.2015	Published
4	Personal care compositions for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	679/KOL/2015	18.06.2015	Published
5	Compositions comprising Green Tea and Naringenin for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	677/KOL/2015	18.06.2015	Published
6	Personal care compositions for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	680/KOL/2015	18.06.2015	Published

7	Personal care compositions for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	766/KOL/2015	15.07.2015	Published
8	Personal care compositions for Anti-aging	Prasanth Mani Iyer, Balamurugan Krishnaswamy, S K Pandian , Gayathri Subramanyam and James Prabhanand Bhaskar	779/KOL/2015	17.07.2015	Published
9	An anti-acne synergistic composition and process thereof	Sivasankar C, S K Pandian and Balamurugan K	Application No. 201641010057	22.03.2016	Published
10	Phytochemical formulations against Early Mortality Syndrome (EMS)	Veera Ravi A, Santhakumari S, Durgadevi R, Pandian SK , Thiruvengadam R, Subba Rao CV, Godfred Ponraj J and Mathan N	Application No. 2017741009817	21.03.2017	Filed
11	Phytochemical formulations against Early Mortality Syndrome (EMS)	Veera Ravi A, Santhakumari S, Durgadevi R, Pandian SK , Thiruvengadam R, Subba Rao CV, Godfred Ponraj J and Mathan N	Application No. 2017741009824	21.03.2017	Filed
12	A formulation comprising phytochemicals and applications thereof	Muthamil S, Sivasankar C and Pandian SK	Application No. 2017741011854	31.03.2017	Filed
13	A composition comprising phytochemicals and preparation process thereof	Swetha TK, Sivasankar C and Pandian SK	Application No. 2017741011855	31.03.2017	Filed

RESEARCH /CONSULTANCY PROJECTS CARRIED OUT AS PI/PROJECT COORDINATOR

Sl. No.	Funding Agency	Title of the Project and Reference Number	Duration	Amount in lakh Rs.
1	CSIR (NMITLI)	Identification and cataloguing of microflora in skin by 16S rRNA gene typing, RAPD and multilocus DNA fingerprinting (under Biotechnology for Leather: Towards Cleaner Processing) - Phase I. (Ref. No. 5/258/13/2001-NMITLI dated 31.03.2002)	2002-2005	24.690
2	DCI*	Environmental Impact Monitoring (EIM) of Sethusamudram Ship Channel Project (SSCP) (Microbiological Parameters) (Ref. No. DCI/OPS/LC/SSCP/2005 dated 23.06.2005)	06/2005 to 10/2005	71.580
3	CSIR (NMITLI)	Further evaluation and formulation of natural and synthetic products for preservation of goat skin and evaluation and validation of marine bacterial enzymes for application in leather industry. Phase II. (Ref. No. 5/258/13/2002-NMITLI dated 02.01.2006).	2006-2011	32.280
4	DBT**	Evaluation of bacterial diversity associated with the coral <i>Acropora digitifera</i> by 16S rRNA gene sequences and screening for antiviral activity against the aquaculture pathogen blotched snakehead virus (BSNV). (Ref. No. BT/PR3987/ AAQ/03/198/2003 dated 22.09.2006).	2006 -2009	36.315
5	UGC	Screening and molecular characterization of Group A Streptococcus by 16S rDNA sequencing and Emm protein serotyping (Ref. No: F.No.34-263/2008 (SR) dated 31.12.08)	2009 -2012	10.472
6	DBT	Bioprospecting marine microbial wealth through metagenomics. (Ref. No. BT/PR99114/NDB/52/134/09 dt 13.09.2010).	2010 -2013	49.36
7	ITC	Part-I: Antimicrobials from marine sources & Part-II: Anti-aging: Role of "Target Genes".	2011-2014	40.63
8	ICMR	Gene expression and protein profiling of Group A Streptococcus upon treatment with quorum quenching agents from marine bacteria (Sanction No. 58/20/2011-BMS dated 19.03.2012)	2012-2015	22.01525
9	CSIR	Production, purification and characterization of α -amylase from marine sediment bacterium <i>Bacillus subtilis</i> S8-18 and its evaluation for antibiofilm activity against human pathogens (Sanction No. 37(1552)/12/EMR-II dated 03.07.2012)	2012-2015	21.42
10	DBT***	Antipathogenic potential of marine cyanobacteria in preventing quorum sensing dependent bacterial infections among aquaculture organisms (Sanction No. BT/PR4815/AAQ/3/587/2012 dated 29.09.2012)	2012-2015	55.09915

11	AERB	Studies on microbial diversity and ecology in the vicinity of a coastal nuclear power plant in relation to water quality and nutrients. (AERB/CSRP/Proj. No. 60/10/2105 dated 13 April 2015)	2015-2018	36.34023
12	DBT (Network)	Programme support on Biotechnology Approaches for Conservation and Sustainable Utilization of Plant Wealth of Western Ghats. Component B: Bioprospecting and Basic Biology. Project B5: Characterization, recombinant expression, process scale up and validation of selected hydrolases from native actino-bacteria for commercial exploitation. (BT/PR12720/COE/34/21/2015 dated 14.05.2015)	2015-2018	24.80
13	ITC	Part I: Natural actives & Part-II: <i>In vivo</i> models for health and hygiene application	2016-2019	83.60

* As a joint venture with the Department of Industrial Chemistry and Department of Oceanography and Coastal Area Studies.

** In collaboration with Fisheries College and Research Institute (Tamil Nadu Veterinary and Animal Sciences University), Thoothukkudi 628 008.

*** In collaboration with Department of Microbiology, Bharathidasan University, Tiruchirappalli 620 024.

FUNDS RECEIVED FOR OTHER SCHEMES AS COORDINATOR/GROUP LEADER:

Sl. No.	Funding Agency	Title of the Scheme and Reference Number	Duration	Amount in lakh Rs.
1	DBT	Bioinformatics Infrastructure Facility (As Coordinator) (Sanction No. BT/BI/04/055/2001 dated 22.09.06; 14.09.07, 24.06.08, 04.08.09, 16.11.09, 11.08.10, 23.08.11 and BT/BI/25/015/2012 19.09.12 and BT/BI/25/015/2012(BIF) 28.01.14 ; BT/BI/25/015/2012 (BIF) 12.09.14; BT/BI/25/015/2012(BIF) 14.12.15; BT/BI/25/015/2012(BIF) 07.02.17; BT/BI/25/015/2012(BIF) 30.12.17).	2006-	123.981
2	DBT	Post M.Sc., Advanced Diploma in Molecular Diagnostics (As Course Coordinator) (Ref. No. DCI/OPS/LC/SSCP/2005 dated 23.06.2005)	2008-2013	104.325
3	DST	FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions) - Level I (As Programme Coordinator) (Sanction No. SR/FST/LSI-087/2008 dated 09.01.09)	2009-2014	44.50
4	DBT	M.Sc., Biotechnology Programme (As Course Coordinator) (Sanction No. BT/HRD/01/04/2009 dated 05.10.09 and 19.09.12) (One Time Grant)	2009	35.00

5	UGC	SAP (DRS-I) (As Coordinator) (Sanction No: F. 3-28/2011 (SAP-II) dated 01.04.2011)	2011 - 2016	75.88532
6	DST	DST-PURSE (As Coordinator) (Sanction No: SR/S9/Z-23/2010/42(C) dated 24 th May 2011)	2011-2014	600.00
7	DST	FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions) - Level I -Phase II (As Programme Coordinator) (Sanction No. SR/FST/LSI-639/2015(C) dated 02.06.2016)	2016-2021	121.00
8	UGC	SAP (DRS-II) (As Coordinator)	2017 - 2022	132.00

Distinctive Achievements / Awards

S. No	Award	Awarded by	Field/Category for which the award was given	Year of Award
1	Shri. PK Das Memorial Lifetime Achievement Award - 2016 (Certificate, Citation and Cash award of Rs. 25000)	Nehru Group of Institutions, Coimbatore	Outstanding contribution in the field of Education	2016
2	Alagappa Excellence Award for Research (2015-2016) (Certificate, Citation and Gold Medal and Cash award of Rs. 15000)	Alagappa University, Karaikudi	Biotechnology	2016
3	Tamil Nadu Scientist Award (Certificate, Citation and Cash award of Rs. 25000)	Tamil Nadu State Council for Science and Technology, Chennai	Biological Sciences	2012
4	Shri. PK Das Memorial Best Faculty Award (Certificate, Citation and Cash award of Rs. 10000)	Nehru Group of Institutions, Coimbatore	Biotechnology (Senior Category)	2012
5	Recipient of the Certificate of Achievement and Cash award of Rs. 10000	Alagappa University, Karaikudi	Academic Performance in the areas of Research Publication and Generation of Research Grants under Performance Linked Incentive Scheme	2006

School Topper in Secondary School Leaving Certificate (SSLC),
P. K. Government High School, Mullikulam, Tirunelveli District, April 1978 (Register No.313118)

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 18

Overseas Exposure / Visits

1. Germany
2. Malaysia
3. People's Republic of China
4. Portugal
5. Switzerland
6. Taiwan
7. Thailand
8. The Netherlands
9. United Kingdom

Membership in Professional Bodies

Professional Bodies

1. Life Member (1699-2005): Association of Microbiologists of India
2. Life Member: Society of Biological Chemists, India
3. Life Member (L14558): The Indian Science Congress Association
4. Life Member: Proteomics Society, India
5. Life Member (LM1664): The Biotech Research Society, India

Fellowship in Academies

1. Elected Fellow of the The Academy of Sciences, Chennai

Editorial Board

S. No	Position	Name	Period	
			From	To
1	Editor	Indian Journal of Microbiology (Springer) (2016 Impact Factor: 1.143)	Jan 2011	Till Date
2	Editor	Journal of Medical Microbiology [Society for General Microbiology, UK]. (Impact Factor: 2.159).	April 2017	Till Date
3	Editor	Research Journal of Biological Sciences (ISSN:0974-4177)	2008	Till Date

Reviewer for more than 25 SCI Journals.

Advisory Board

19.02.2015- Till Date: External Member in Research Committee, Bharathidasan University
22.08.2016-Till Date : Member of the Advisory Committee for the Centre "National Centre for Alternatives to Animal Experiments " at Bharathidasan University, Tiruchirappalli under the scheme "Centre with Potential for Excellence in Particular Area (CPEPA) (nominated by the Chairman, University Grants Commission (UGC))

06.09.2017- Till Date: Member, Research Advisory Board, Aravind Medical Research Foundation, Madurai

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

Membership in Board of Studies /Expert Committee/Selection Committee in Autonomous Colleges/Other Universities: **62**

Resource persons in various capacities

SPECIAL & INVITED LECTURES DELIVERED : **85**

GARDUATION DAY ADDRESSES DELIVERED : **2**

Others

1. Articles published in Newspapers / Magazines : **1**

2. Popularization of Science through media

- All India Radio, Madurai broadcast a 15 min Talk on “Forensic Science” on 05.07.2003 at 07:30AM.
- A 30 min programme on “DNA fingerprinting” was broadcast on 20.07.2003 at 09:00 AM as part of Popularization of Biotechnology by the All India Radio, Madurai. This programme was produced by Vigyan Prachar (New Delhi), AIR (Madurai) and Tamil Nadu Science Forum (Madurai).

3. Products developed : **02**

4. No. of PhD Thesis evaluated : **34**

5. No. of PhD Public Viva Voce Examination conducted : **45**

6. Sequences submitted in

1. GenBank

- 16S rRNA gene sequences : **594**
- ITS region sequences : **29**
- *emm* gene sequences : **34**
- ESBL gene sequences : **20**
- *rpoB* gene sequences : **6**

2. Metagenomic clone derived gene sequences : **2**

3. Complete sequence of plasmid submitted in GenBank : **1**
(Novel cryptic plasmid pRK10 from *Serratia marcescens*; Plasmid 62:183-190).

4. European Nucleotide Archive (ENA): : **53**

(V3 Hypervariable regions of 16S rRNA gene sequences of epibacterial community from seaweeds and sediments).

5. MLST Database (Welcome Trust) : **33**

- MRSA and MSSA isolated from pharyngitis patients

www.alagappabiotech.org/Biobank/BioBank%20index%20page.htm.

Recent Research Publications in SCI Journals

1. Sethupathy S, Ananthi S, Selvaraj A, Shanmuganathan B, Vigneshwari L, Balamurugan K, Mahalingam S and **Pandian SK** (2017). Vanillic acid from *Actinidia deliciosa* impedes virulence in *Serratia marcescens* by affecting S-layer, flagellin and fatty acid biosynthesis proteins. [Scientific Reports](#) [Nature Publishing Group, UK] 2017 Nov 27;7(1):16328. doi: 10.1038/s41598-017-16507-x (Impact Factor: 4.259).
2. Muthamil S, Devi VA, Balasubramaniam B, Balamurugan K and **Pandian SK** (2017) Green synthesized silver nanoparticles demonstrating enhanced *in vitro* and *in vivo* antibiofilm activity against *Candida* spp. [Journal of Basic Microbiology](#) [Wiley] (Impact Factor: 1.438) (Accepted).
3. Srinivasan R, Mohankumar R, Kannappan A, Raja KV, 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](#) [Frontiers, Research Foundation, Switzerland] 7:498. doi: 10.3389/fcimb.2017.00498 (Impact Factor: 4.3).
4. Subramenium GA, Swetha TK, Prasanth MI, Balamurugan K and **Pandian SK** (2018). 5-hydroxymethyl-2-furaldehyde from marine bacterium *Bacillus subtilis* inhibits biofilm and virulence of *Candida albicans*. [Microbiological Research](#) [Elsevier, USA] 207:19-32 (Impact Factor: 3.037).
5. Gowrishankar S and **Pandian SK** (2017). Modulation of *Staphylococcus epidermidis* (RP62A) extracellular polymeric layer by marine cyclic dipeptide-cyclo(L-leucyl-L-prolyl) thwarts biofilm formation. [BBA Biomembranes](#) [Elsevier] 1859: 1254-1262 (Impact Factor: 3.687).
6. Sethupathy S, Vigneshwari L, Valliammai A, Balamurugan K and **Pandian SK** (2017). L-Ascorbyl 2, 6-Dipalmitate inhibits biofilm and virulence in methicillin-resistant *Staphylococcus aureus* and prevents triacylglyceride accumulation in *Caenorhabditis elegans*. [RSC Advances](#) [Royal Society of Chemistry, UK] 7:23392-2340 (Impact Factor: 3.289).
7. Sivasankar C, Gayathri S, Bhaskar JP, Krishnan V and **Pandian SK** (2017). Embelin as a promising antagonistic agent targeting secreted lipase and its synergistic effect with ketoconazole against *Malassezia* spp. [Microbial Pathogenesis](#) [Elsevier] 110:66-72 (Impact Factor: 2.009).
8. Aravindraja C, Valliammai A, Viszwapriya D and **Pandian SK** (2017). Quorum sensing mediated virulence inhibition of an opportunistic human pathogen *Serratia marcescens* from unexplored marine sediment of Palk Bay through function driven metagenomic approach. [Indian Journal of Experimental Biology](#) [NISCAIR, CSIR, India] 55:448-452 (Impact Factor: 1.165).
9. Viszwapriya D, Subramenium GA, Radhika S and **Pandian SK** (2017). Betulin inhibits cariogenic properties of *Streptococcus mutans* by targeting *vicRK* and *gtf* genes. [Antonie van Leeuwenhoek Journal of Microbiology](#) [Springer] 110:153-165 (Impact Factor: 2.137).
10. 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](#) [Elsevier] 150: 21-31 (Impact Factor: 2.379).
11. 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](#) [Elsevier].110:313-324 (Impact Factor: 2.009).
12. 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](#) [Society for General Microbiology, UK] 66:1506-1515. doi: 10.1099/jmm.0.000570 (Impact Factor: 2.159).
13. Satish L, Snthakumari 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](#) (Springer, The Netherlands) 24:27254-27268. doi: 10.1007/s11356-017-0296-4 (Impact Factor: 2.741).
 14. Bai NS, Sasidharan TO, Remadevi OK, Dharmarajan P, **Pandian SK** and Balaji K (2017) Morphology and RAPD analysis of certain potentially entomopathogenic isolates of *Metarhizium anisopliae* Metsch.(Deuteromycotina: Hypocreales). [Journal of Microbiology and Biotechnology Research](#) 5:34-40.
 15. Malar DS, Shafreen RB, **Pandian SK** and Devi KP (2017). Cholinesterase inhibitory, anti-amyloidogenic and neuroprotective effect of the medicinal plant *Grewia tiliifolia* - An *in vitro* and *in silico* study. [Pharmaceutical Biology](#) [Informa Healthcare] 55: 381-393 (Impact Factor: 1.241).
 16. Farisabanu S, Rubini D, Rakshithaa S, Kamaraj CS, Wilson A, Gowrishankar S, **Pandian SK**, Murugan R, Nithyanand P (2017). Antivirulent properties of underexplored *Cinnamomum tamala* essential oil and its synergistic effects with DNase against *Pseudomonas aeruginosa* biofilms - an *in vitro* study. [Frontiers in Microbiology](#) [Lausanne: Frontiers Research Foundation, Switzerland] 8:1144 (Impact Factor: 4.165).
 17. Nithyanand P, **Pandian SK**, Kushmaro A, Supayang V and Wilson A (2017) Recent Advances in Biofilmology and Antibiofilm Measures. [BioMed Research International](#). vol. 2017, Article ID 5409325, 2 pages, doi:10.1155/2017/5409325 (Impact Factor: 2.134).
 18. Sivaranjani M, Prakash M, Gowrishankar S, Rathna J, **Pandian SK** and Ravi AV (2017). *In vitro* activity of alpha-mangostin in killing and eradicating *Staphylococcus epidermidis* RP62A biofilms. [Applied Microbiology and Biotechnology](#) [Springer, Germany] 101: 3349-3359 (Impact Factor: 3.376).
 19. Srinivasan R, Devi KR, Kannappan A, **Pandian SK** and 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](#) [Elsevier] 193:592-603 (Impact Factor: 3.055).
 20. Viszwapriya D, Subramenium GA, Prithika U, Balamurugan K and **Pandian SK** (2016). Betulin inhibits virulence and biofilm of *Streptococcus pyogenes* by suppressing *ropB* core regulon, *sagA* and *dltA*. [Pathogens and Disease](#) [Formerly FEMS Immunology & Medical Microbiology] [Oxford University Press] 74 (7) (Impact Factor: 2.483). DOI:10.1093/femspd/ftw088.
 21. Gowrishankar S, Kamaladevi A, Balamurugan K and **Pandian SK** (2016). *In vitro* and *in vivo* biofilm characterization of methicillin-resistant *Staphylococcus aureus* from patients associated with pharyngitis infection. [BioMed Research International](#) [Hindawi] vol. 2016, 14 pages, Article ID 1289157 <http://dx.doi.org/10.1155/2016/1289157> (Impact Factor: 2.134).
 22. Sivaranjani M, Gowrishankar S, Kamaladevi A, **Pandian SK**, Balamurugan K and 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](#) [Elsevier] 237:73-82 (Impact Factor: 3.445)
 23. Rathna J, Bakkiyaraj D and **Pandian SK** (2016). Antibiofilm mechanism of 3, 5 Di tertiary butyl phenol against clinically relevant fungal pathogens. [Biofouling](#) [Taylor & Francis, UK] 32: 979-993 (Impact Factor: 3.415).
 24. Viszwapriya D, Prithika U, Deebika S, Balamurugan K and **Pandian SK** (2016). *In vitro* and *in vivo* antibiofilm potential of 2,4-Di-tert-butylphenol from seaweed surface associated

- bacterium *Bacillus subtilis* against Group A Streptococcus. [Microbiological Research](#) 191:19-31 [Elsevier, USA] (Impact Factor: 2.561).
25. Sethupathy S, Prasath KG, Ananthi S, Mahalingam S, Balan SY and **Pandian SK** (2016). Proteomic analysis reveals modulation of iron homeostasis and oxidative stress response in *Pseudomonas aeruginosa* PA01 by curcumin inhibiting quorum sensing regulated virulence factors and biofilm production. [Journal of Proteomics](#) 145: 112-126 [Elsevier] (Impact Factor: 3.888).
 26. Rathna J, Ajilda AK, Yazhini B, Prabu HG and **Pandian SK** (2016). Production of naphthoquinones and phenolics by a novel isolate *Fusarium solani* PSC-R of Palk Bay and their industrial applications. [Bioresource Technology](#) [Elsevier] 213:289-298 (Impact Factor: 4.494).
 27. Rajalaxmi M, Amsa Devi V and **Pandian SK** (2016). *In vitro* evaluation of indole-3-carboxaldehyde on *Vibrio parahaemolyticus* biofilms. [Biologia](#) (section Cellular and Molecular Biology) [Springer, Slovakia] 71: 247-255 (Impact Factor: 0.827).
 28. Muthamil S and **Pandian SK** (2016). Inhibitory effect of *Murraya koenigii* against *Candida albicans* virulence and biofilm development. [Biologia](#) (section Cellular and Molecular Biology) [Springer, Slovakia] 71: 256-264 (Impact Factor: 0.827).
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