Dr.J. SRIDHAR

Assistant Professor, Department of Biotechnology (DDE) UGC-Commonwealth Fellow-UK, Madurai Kamaraj University Madurai – 625021 Tamil Nadu Email: jsridhar@mkuniversity.ac.in (off)



srimicro2002@gmail.com (personal) Phone: 0452-2459195 (Off); 9751648767(Mobile) <u>https://www.scopus.com/authid/detail.uri?authorId=16234722600</u> <u>https://vidwan.inflibnet.ac.in/profile/177575</u> https://scholar.google.ca/citations?user=2Qp478cAAAAJ&hl=en

1. Personal Details

12/06/1981
Male, Married
Sengunthar
Indian
Manampathy, Kanchipuram District

2. Educational Qualifications

2.1. Academic

Degree/ Examinatio n	Name of the Exam	University/ Institute	Year of Passin g	Percentage / Grade	Main Subject
Under	BSc/BA/BCom	University of	2002	67	Microbiolog
Graduate	etc. Degree	Madras/Sri Sankara			У
		College,			
		Kanchipuram			
Teacher	BEd / MEd				
Education					
Post	MSc/MA/MCo	Bharathidasan	2004	7.58 CGPA	Microbiology
Graduate	m etc. Degree	University/Departmen		with	
		t of Microbiology		Distinction	
NET	CSIR-UGC/				
	NET/ NET-LS				

2.2. Research

Degree	Name of the	Title of the Thesis	Date of	Date of
	University		Submission	Award
PhD	Madurai Kamaraj University/School of Biotechnology	"Studies on Rnome and Associated Proteins"	17.08.2009	16.09.2010
MPhil				
DSc/DLitt				

3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work
Max Planck Institute for Infection Biology, Berlin, Germany	December 2009 to October 2010	Non coding RNA and pathogenesis of <i>Salmonella</i> spp.
Austrian Academy of Sciences	October 2010 to February 2011	Polynucleobacter spp. genomics

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Centre of Excellence in Bioinformatics, School of Biotechnology, Madurai Kamaraj University	Research Fellow	01/12/2004	31/08/2007
2	Commonwealth Scholarship Commission, UK tenable at University of Leicester	Commonwealth Split-Site Doctoral Fellow	01/10/2007	13/04/2009
3	Coordinator, Centre of Excellence in Bioinformatics, School of Biotechnology, Madurai Kamaraj University	Senior Research Fellow	01/09/2007	30/11/2009
4	Max Planck Institute of Infection Biology, Berlin, Germany	Post Doctoral Fellow	01/12/2009	31/10/2010
5	Austrian Academy of Sciences, Austria	Post Doctoral Scientist	01/11/2010	31/01/2011
6	Coordinator, UGC-Networking Resource Centre in Biological Sciences, Madurai Kamaraj University	Project Faculty	03/02/2011	06/12/2013
7	Madurai Kamaraj University, Department of Biotechnology (DDE)	Assistant Professor	06/12/2013	Till date

5. Teaching(List all the courses taught (semester-wise) – MPhil, PG and UG)

Γ	No	Year	Semester	Course Code	Course Title	Hours per Week
	1	2022-23	PG: II	BBB	BIOPHYSICS AND BASIC	Four

				BIOINFORMATICS	
2	2011- 2019	PG: II	GEN14 32C	PROTEOMICS AND BIOINFORMATICS	Four
3	2011- 2019	PG: II	GEN14 35E	Lab in Bioinformatics	Two
4	2011- 2019	PG: III	GEN14 36E:	COMPUTATIONAL GENOMICS	Four
5	2013- 2021	UG:I-VI	UMBIOI- VIII	BSc., Microbiology	TWO
6	2013- 2021	UG:I-VI	UMBIL1- L4	BSc., Microbiology	TWO

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level(PG/UG)
1	Advance Diploma in Bioinformatics	Madurai Kamaraj University	Advance Diploma

7. Creation of ICT Mediated Teaching-Learning Pedagogy

7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level(PG/UG)

7.2. E-Contents

No	Description	Organization for which it was Developed	Level(PG/UG)

7.3. Development of otherICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level(PG/UG)

8. Research Specialization / Field of Research

- Genome Informatics
- Non-coding RNA Biology
- Next Generation Sequencing and Data Analysis
- > Food analysis for Endocrine disrupting chemicals
- > Seaweed essential oil for therapeutic applications

9. Research Publications

Туре	International	National
Papers Published in UGC-CARE Listed Journals	42	
Papers in Refereed Journals (Not mentioned above)		4
Books Published (chapters)		
Books Edited		
Contributions to Book Chapters	4	3
Editor of Conference/Seminar Proceedings		
Papers Published in Conference/Seminar Proceedings		3
Papers Presented in Conferences/Seminars	15	
Conference/Seminar/Workshop Attended	30	
Deposits in CCDC, PDB, etc.		

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	145
Total Citations (Scopus/Web of Science)	400
h-Index (Scopus/Web of Science)	16
g-Index (Scopus/Web of Science)	11
i10 Index (Scopus/Web of Science)	22

11. Details of Patents

1. --

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)			
PhD (Part-time)	2	-	3
MPhil Research Project (Full-time)			
MPhil Research Project (Part-time)			
MSc Projects/Dissertation	7	-	1
MSc Internships/Summer or Winter Projects			

13. Funded Research Projects 13.1. Ongoing

No	Title of the Project	Funding	Period /	Total Grants
		Agency	Duration	Sanctioned (Rs)
1	Construction of machine learning based standalone suite and web-server for viral read detection and variant differentiation from NGS/RNA-SEQ data	RUSA, MKU	Two Years	Group project, 72 Lakhs

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month &Year of Completion	Total Grants Received (Rs)	No of Papers out of Project
1	Constructionofcomputational platform forthe identification of non-coding small RNAs andsmall ORFs in bacteria	DBT, Govt. of India	2012-2015 (PI)	19.0	2
2	Analysis and identification of prophage mediated genome evolution in <i>Salmonella</i> spp.	UGC, Govt. of India	2012-2015 (PI)	10.3	1
3	Networking project on <i>Brucella</i> spp. genomics	DBT, Govt. of India	2012-2019 (Co-PI)	120.0	7
	Deviewer in Journale				

14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed
JBSD	Taylor & Francis	5
PLoS One	PLoS group	3
JoVE	My JOVE corp.	1
Environmental Advances	Science Direct	1
PLoS Global Public Health	PLoS	1
Frontiers in Veterinary Sciences	Frontiers	1
Journal of Cardiovascular Development and Disease	MDPI	1
Cell Biochemistry and Biophysics	Springer Nature	1
Computers in Biology and Medicine	Springer	1
Genomics	Elsevier	1
Pharmaceutical Sciences	TUOMS PRESS	1
medRxiv	Qeios	1
Frontiers in Microbiology	Frontiers	1
PLoS ONE	PLoS	1
Mitochondrial DNA Part A	Taylor & Francis	1
Computers in Biology and Medicine	Elsevier	1
Gene Reports	Elsevier	1
PeerJ	PeerJ	1
Molecular OMICS	RSC	1
Frontiers Microbiology	Frontiers	1
Journal of Biomedical Informatics	Science Direct	1
etc.,		

15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Dr. N. Sabarinathan	National Centre for	TCGA/TCPA analysis
	Biological Sciences,	
	Bengaluru	
Prof. K. Sekar	Indian Institute of	Webserver, Computational
	Science, Bengaluru	tool/software development and
		hosting
Prof. Sanjeev Kumar singth	Alagappa University	QSAR analysis using
		Schroedinger
Dr. Kalyanasundaram	Periyar University	Thin film evaluation and
		antibacterial material selection
Dr. Mathavan	Thiruvalluvar	Sensor for alloxan detection
	University, Vellore	
Dr. Martin Britto Doss	Sacred Heart	Shock wave project
	College, Tirupatthur	

16. Countries Visited

Name of the Country	Period	Purpose
United Kingdom	2006-2009	Part of PhD research carried
		out in the Department of
		Infection, Immunity and
		Inflammation, University
Singapore	2009	Presentation in International
		Conference on Bioinformatics-
		2009
Germany	2009-2010	Post Doctoral Fellow in Max
		Planck Institute for Infection
		Biology, Berlin, Germany
Austria	2010-2011	Post Doctoral Fellow in
		Austrian Academy of Sciences,
		Mondsee, Austria
Malaysia 2012		Presentation in International
		Conference on Bioinformatics-
		2009

17. Honours / Awards / Recognitions

Nam	e of the Honours / Awards / Recognition	Awarding	International / National / State / Institute Level
	Recognition	Agency	/ State / Institute Level
*	Mentor DBT-STAR college	DBT	National
	scheme, PSGRKrishnammal		
	college, Coimbatore (2019-22)		
*	Fellow of the Antiviral Research	AVRS	STATE
	Society of India (2018)		
*	Max Planck Society Germany	MPG, Max	International

	travel subsistence allowance (2013)	Planck Society	
*	Nominated for participation in	Max Planck	International
	"Otto Warburg Summer School	Institute for	
	on Next Generation Sequencing	Molecular	
	and its impact on Genetics" at	Genetics, Berlin	
	Max Planck Institute for		
	Molecular Genetics, Berlin,		
	Germany, August 19-26, 2013		
*	DBT-CTEP International Travel	DBT-CTEP	National
	grant tenable at Germany (2013)		
*	UGC-DSKothari Post Doctoral		
	Fellowship (2013)	UGC	National
*	ICMR travel grant – Govt. of		
	India tenable at Malaysia (2011)	ICMR	National
*	Post Doctoral Fellowship –		
	Austrian Academy of Science,	OEAW	International
	Austria (2010-2011).		
*	Post Doctoral Fellowship – Max	MPG	International
	Planck Institute for Infection		
	Biology, Berlin, Germany		
	(2009-2010).		
*	UGC-Commonwealth Split-site	CSC, UK	International
•	Doctoral award –		
	Commonwealth Scholarship		
	Commission, United Kingdom		
	(2007-2009).		
*	DST-ITS International travel	DST-ITS	National
•	grant – Govt. of India tenable at		
	Singapore (2009).		
**	Recipient, Junior and Senior	DBT	National
•	Research Fellowship – DBT		
	Govt. of India (2004–2009).		
	30000.01 mana (2004–2007).		

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role	Funding
				Played	
	Summer school on	May 31-	NRCBS-	Organizing	UGC-
	"Comparative	June13,	MKU	secretary	MHRD
	genomics and its	2011		-	
	applications in				
	drug discovery"				
	First 'On Site'	September	Sri	Convener	UGC-
	workshop on	20-30, 2011	Venkateswara		MHRD
	"Computational		University,		
	genomics and its		Tirupati, A.P.		
	applications"				

Second 'On Site' workshop on "Advances in Computational genomics"	February 13- 20, 2012	Yogi Vemana University, Kadapa	Convener	UGC- MHRD
Third 'On Site' workshop on 'Recombinant DNA technology and Bioinformatics'	September 24-October 5, 2012	Thiruvalluvar University, Vellore	Organizing Secretary	UGC- MHRD
First DBT- Brucella genomics workshop	July 08-12, 2013,	Department of Genetics, MKU	Course Co- ordinator	DBT

19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the	International /	Date(s)		
		Conference /	National / State /	(.)		
		Seminar /	Institute Level			
		Workshop				
	 Delivered a invited lecture on "Initiatives by Government of India for Women Entrepreneurs" organized by YWED, SFR College, Sivakasi July 2, 2021. Delivered a invited lecture on "Evolution of the SARS-CoV2 Virus" i webinar organized by the Youth Red Cross Association of Govindana Aditanar College for Women, Tiruchendur on 21.05.2021 Delivered a invited lecture on "Highthroughput Data Analysis using Bioinformatics Tools" in the Faculty Development Programme on "He on Training on Computational Biology" organized by St. Mary's Colle Thoothukudi and Rani Anna Government College for Women, Tirune on 11.05.2021 					
	 Delivered a invited lecture on "Advance Bioinformatics Techniques for Biologists" in the association meeting organized by the Department of Botany, Rani Anna Government College for Women, Tirunelveli on 30.04.2021 Delivered a invited lecture on "Gender Specific Initiatives by Governm of India for Women Empowernment" in Referesher course on "Gender Studies" organized by UGC-Human Resource Development Centre, Madurai Kamaraj Unviersity, Madurai-625021 Delivered a invited lecture on "Bioinformatics Techniques applied in Modern Biology" in the Faculty Development Programme conducted b V.V.V. College, Virudhunagar 13.03.2021. Delivered a invited lecture on "COVID 19 combating strategies" in the webinar organized by Tamilnadu Psychology Association (TNPA), Chennai Delivered a lecture on Soft computing and artificial intelligence applications in Genome Biology, in the National workshop on "Artific Intelligence in Genomic Analaysis", PSGR Krishnammal College for 					

	ation Seuqencing" under DBT
Star College Scheme, organized by Departm PSGR Krishnammal College for Women, Co	1
 Delivered a lecture on "Identification of sil 	· · · · · · · · · · · · · · · · · · ·
RNAs in Bacillus cereus " in the three day w	
and Metagenomics" organized by the Depart	tment of Microbiology, Periyar
University, Salem (10.09.2015).	
 Delivered a invited lecture on "Biological D 	ata Mining and Analytics"
under DBT Star College Scheme, organized	
Science, PSGR Krishnammal College for W	omen, Coimbatore
(29.09.2018).	
 Delivered a lecture on "Computational pro 	
ligand interaction studies for the improve	
degrading potential of Organophosphorus radiodurans" in the national conference on	
drug design, discovery and development, Jun	
college of Pharmacy, Coimbatore.	
 Delivered a lecture on "Genomics" in Thiag 	parajar college. Maduraj on
18.09.2018	,
Delivered a lecture on "Bioinformatics for	Biologists " in the UGC
sponsored seminar by the Department of Bo	
Nagamalai, Madurai on 07.02.2018.	<i>,</i> , ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
 Invited lecture on "Brucella genomics" in t 	he DBT sponsored Brucella
Bioinformatics workshop held in School of I	
December 5, 2017.	
 Invited talk on "Evolutionary dynamics an 	
serotypes prevalent in India" delivered at advances in antiviral drug design and discov	
emerging viral diseases", October 24-25, 20	
A Invited leature on "Disinformatics for Disl	agists" delivered at (Defrecher
 Invited lecture on "Bioinformatics for Biol course on Biology for college/University to 	
Academic Staff College, Madurai Kamaraj U	•
20, 2013	
 Key note lecture on "Soft computing techn 	iques applied in Biology"
delivered at the CSIR sponsored international	al conference on "Applied soft
computing techniques" (ICASCT) conducted	d by Kalasalingam University,
Krishnankoil, April 22-23, 2017.	
 Invited lecture on "Bioinformatics for mar 	ine sciences" delivered at 35 th
Winter School on "Protein purification techn	nology & Corel reef monitoring
techniques" conducted by NRCBS, Madurai	Kamaraj University on March
14, 2017.	

*	Oral presentation on "Identification and molecular differentiation of PaV1 and Vibrio. sppprevalence in the spiny lobsters of gulf of mannar " delivered at 3 rd AFSA Conference on "Food Safety and Security", conducted by KIIT University, Bhubaneshwar, September 15- 17, 2016.
*	Invited talk on "Identification of silver stress responsive small RNAs in Bacillus cereus"was delivered at DST-SERB sponsored National Conference on "Recent advances in Industrial Biotechnological skills development", at Thiagarajar college, Madurai from 30-3-2015 to 31-03- 2015.
*	Prelinary talk on "Bioinformatics tools for Metagenomics and Bioinformatics" was delivered at the workshop on Advanced Molecular Techniques held in Periyar University, September 11, 2015.
*	Invited lecture on 'Non-coding RNAs in Prokaryotes' delivered at 'Advances in Non-coding Genomics' conducted by Institute of Bioinformatics and Applied Biotechnology, Bangalore, September 13-14, 2013

20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs &Sponsor
First DBT-Brucella genomics workshop	Course Co- ordinator	School of Biological Sciences, MKu	July 08-12, 2013, Department of Genetics, MKU	DBT

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)		Sponsor
Otto Warburg Summer School	Max Planck	August	August	Max Planck
on Next Generation	Institute for	19, 2013	26, 2013	Institute for
Sequencing and its impact on	Molecular			Molecular
Genetics	Genetics			Genetics
The Warwick Practical	Waters India Ltd	October	October	Waters India
Proteomics'	& Warwick	16, 2012	19, 2012	Ltd &
	University			Warwick
				University
Transcriptomics workshop	European	January	January	European
	Bioinformatics	28, 2008	30, 2008	Bioinformatics
	Institute,			Institute,
	Hinxton,			Hinxton,
	Cambridge, UK			Cambridge,
				UK
EBI-Master level training	European	March 21,	March 22,	European

	Bioinformatics Institute, Hinxton, Cambridge, UK	2009	2009	Bioinformatics Institute, Hinxton, Cambridge, UK
Satellite meetings and SIGS, INCOB 2009	National University of Singapore & APBioNet	September 7-2009	September 11, 2009	National University of Singapore & APBioNet
Indo-US workshop on Biocomputing	National Institute of Technology, Calicut	September 12, 2011	September 13, 2011	National Institute of Technology, Calicut
DBT sponsored training programme on "Whole genome sequencing and annotation"	IISR, Calicut	February 21, 2012	February 25, 2012	IISR, Calicut
WORTIC-WOBIC-2007	National Facility for marine cyanobacteria, BDU	March 19, 2007	March 30, 2007	National Facility for marine cyanobacteria, BDU
Training on Animal cell Culture	King Institute of Preventive Medicine, Chennai	June 1, 2003	June 30, 2003	King Institute of Preventive Medicine, Chennai

22. Administrative Experiences

Role Played	Responsibilities	Period (from to)				
Observer for reg	Observer for regular MKU examinations conducted in Madonna college,					
Viraganoor, Maa	Viraganoor, Madurai (2020)					
Served as Techn	ical Committee Member to apply for co	ourse approval from UGC-				
DEB (2019-20)						
	ber for the merger of EDPs in DDE and	d Additional Controller of				
	fice through automation (2019-20)					
	ber for the implementation DDE online	1				
Nominated as a v	warden for Kavimani Hostel, Madurai k	Kamaraj University (2015 –				
2016).						
1	nittee member for Community college,	. ,				
11	Expert, for the UGC sponsored Comm					
	P.A. College, Bodinayakkanur (Februar	•				
	ead-in-Charge, Department of Biotechn	ology (DDE), Madurai				
Ð	sity from 28-12-2017 onwards.					
	rdinator" for the Lesson Despatch section	on, DDE from 2019 to May				
2022.						
	oserver to conduct the Non-semester exa	1				
	i examination centre from 25-05-2017 t					
	oserver to conduct the Non-semester exa	aminations of November				
2017 at Theni Ez	xamination centre					

23. Membership in Academic Bodies

Name of the University / Institute	Type of Membership	Duration / Period
/ College		
Community College sponsored by UGC, CPA college,	BoS Member	2019-2022
Bodinayakkanur		
Doctoral Committee Member for PhD/Periyar University	External Member	2018-2021

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
 Life Member- Antiviral Research Society of India (AVRS) 	National	Life Member
 Life member – Biotech Research Society of India (BRSI) Member – International Society for Computational Biology (ISCB) 	National	Life Member
 Member – APBionet 	International	Annual Member
 Member – Society of Biological Chemists in India (SBCI) 	National	Annual Member

25. Languages Known

Languages	Read	Write	Speak
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes

26. Competence in Computer Applications Expertise in Bioinformatics software/web-server development:

The PI (Dr. J. SRIDHAR) has expertise in constructing variety of computational tools (standalone and web servers) for genome analysis. He has developed a computational tool sRNAscanner for small RNA prediction in pathogen genomes and published (Sridhar et al., 2010). He has developed a computing for the comparative identification of putative small RNA locations in bacteria called as PsRNA (Sridhar et al., 2010: Genomics Proteomics

Bioinformatics 8: 127-134). Subsequently he has developed an intergenic explorer Junker for the analysis of intergenic regions (Sridhar et al., 2011: Genomics Proteomics Bioinformatics 9: 179-182). He has involved in developing databases sRNAbase (Sathesh et al., 2009) and Brucellabase (Sankarasubramanian et al., 2016). Recently the PI has developed software called as PanGeT: Pangenomcis tool to compute the pangenome of 'N' number of genomes in a single command (Yuvaraj et al., 2017: Gene 600: 77-84). Most of the tools and web servers are hosed and maintained in the Bioinformatics centre at Indian Institute of Science, Bengaluru.

Expertise in NGS data analysis:

PI has acted as one of the investigator the DBT Networking Project on "Brucella genomics" and analyzed the NGS data for partnering labs in India. It has resulted in the publication of seven Whole Genome Sequences and published in reputed journals which were deposited in NCBI-SRA. Dr. J. Sridhar has also acted as a PI for the UGC sponsored major research project on "Phage mediated genome evolution in *Salmonella* spp."

The PI has published research articles on waste water based epidemiology for monitoring and surveillance on emerging and re-emerging viruses (Sridhar et al., <u>Case Studies in Chemical and Environmental Engineering.</u> 2022 Dec; 6: 100241).

The PI is also nominated as a course coordinator for the Advance Diploma in Bioinformatics course in MKU which helps to acquire expertise in this field from time to time.

27. Involvement in Extension Activities other than Academic Works

- Acted as Judge for 'Veetukoru Vignani' programme organized by Puthiyathalaimurai television network (2017).
- Served as a polling officer in General elections for Lokh Sabha 2019
- Served as a presiding officer in local body elections Tamilnadu Dec 2019
- Invigilator for TNPSC CCSE-IV 2018 held in MKU

28. Any Other Relevant Information

I am planning to establish "Centre for Genome Informatics" in Madurai Kamaraj University to reinstate the Bioinformatics/Computational research atmosphere in the campus. I request the administration to create such centre to facilitate the effective conduct of "Advance Diploma in Bioinformatics" in near future.

Details of Publications

1. Book Chapters:

- 1. A book chapter on "The Small RNAs of *Salmonella*" by Jayavel Sridhar, Kai Papenfort and Jorg Vogel, in "*Salmonella*: From Genome to Function" (2010) edited by Steffen Porwolik. Publisher: Horizon Press, USA ISBN: 978-1-904455-73-8.
- 2. Laboratory Manual on "Comparative Genomics and Proteomics in Drug Discovery" by P. Gunasekaran, R. Murugesan, J. Sridhar and A. Mahalakshmi published by UGC-NRCBS, MKU (2011).
- 3. Laboratory Manual on "Computational genomics and its applications" by P. Gunasekaran, R. Murugesan, J. Sridhar and A. Mahalakshmi published by UGC-NRCBS, MKU (2011).
- 4. Laboratory Manual on "Advances in Computational genomics" by J. Sridhar *et al.*, published by UGC-NRCBS (2012).
- 5. Laboraty Manual on 'Brucella genomics' by Rajendhran, Sridhar, et al., (2013) published by Department of Genetics, MKU.
- 6. A Book chapter entitled as "*UV-B stress induced antiviral responsethrough photolyase-An interaction assessment with virulence proteins of Cyamopsis tetragonoloba leaf curl Virus*" in <u>Recent trends in Microbial diversity and bioprospecting</u>, published by Westville publishing House, New delhi (2014).
- 7. 7. A Book chapter entitled as "Advanced natural/synthetic composite materials for marine applications: A review", CRC Press (Accepted)
- 8. A Book chapter entitled as "Polyester based Bio composites for marine applications", CRC Pres (Accepted)
- 9. A book chapter entitled as "Suitability of biocomposites in marine applications", Springer (Accepted).

5. Research Publications

S. No	Authors & Title	Name of the Journal	Volume/Page/Year
1	Jayavel Sridhar ^{\$,#} , Rahul Parit [#] , Govindaraju Boopalakrishnan, M Johni Rexliene, Rajkumar Praveen, Viswananathan Balaji Importance of wastewater- based epidemiology for detecting and monitoring SARS-CoV-2	Case Studies in Chemical and Environmental Engineering (Elsevier)	2022, 6, 100241
2	A. Sivakumar, ^{<i>a</i>} A. Rita, ^{<i>a</i>} S. Sahaya Jude Dhas, ^{<i>b</i>} K. P. J. Reddy, ^{<i>c</i>} Raju Suresh Kumar, \bigcirc ^{<i>d</i>} Abdulrahman I. Almansour, ^{<i>d</i>} Shubhadip Chakraborty, \bigcirc ^{<i>e</i>} K. Moovendaran, ^{<i>f</i>} Javavel Sridhar ^{<i>g</i>} and S. A. Martin Britto Dhas Dynamic shock wave driven simultaneous crystallographic and molecular switching between α -Fe ₂ O ₃ and Fe ₃ O ₄ nanoparticles – a new finding <u>†</u>	Daltons Transactions [IF: 4.39]	2022, 51, 9159-9166
3	Rajkumar Praveen, Johni Rexliene, Ashwini Karuppaswamy, Murugesan Rajeshkannan, Viswanathan Balaji, Jayavel Sridhar* Insights from the molecular docking aided interaction analysis of HfQ with small RNAs	Bioinformation	2022, 18 (4), 425-431
4	Chandrasekaran Kumar, Dhinakarasamy Inbakandan, <u>Jayavel</u> <u>Sridhar,</u> Thirugnanasambandam Rajendran, Subashni	Journal of King Saud University- Science	101909 (2022) Page 15

	Bhoopathy, Gopal Dharani, Ramalingam Kirubagaran, Seyed Ajmal Khan Complete sequence and characterization of the Mobula tarapacana (Sicklefin Devilray) mitochondrial genome and its phylogenetic implications		
5	M. Rajesh Kannan ^a , B. Ramkumar ^a , N. Sivakumar ^b , <u>J.Sridhar^c</u> and C.M. Ramakritinan ^{a*.} MOLECULAR IDENTIFICATION OF CORAL ENDOSYMBIONTS OF VEEDHALAI AND MANDAPAM COASTS IN PALK BAY, BASED ON SMALL SUBUNIT rDNA.	Bioinformation	2022 (Accepted)
	Computational studies on new Leishmanial drug targets against Quercetin Kanagaraj Jyothi, V Sivaranjani, U Pavithra, Sridhar Jayavel, Lakshmanan Muthulakshmi	Indian Journal of Biochemistry and Biophysics (IJBB) [IF: 1.5]	59, 9: 909-917
6	Proximate composition and fatty acid profle of Himantura marginata (Blackedge whipray) liver oil C. Kumar1 D. Inbakandan1 J. Sridhar2 R. Thirugnanasambandam1 B. Subashni1 G. Dharani3 Meivelu Moovendhan4 S. Ajmal Khan5	Biomass conversion and Biorefinery [IF: 4.987]	https://doi.org/10.100 7/s13399-021-01984-y (2021)
7	Deriving tropical gynoecious inbred backcross lines from exotic pickling cucumber using marker assisted backcross breeding G Boopalakrishnan, Sridhar	Scientia Horticulturae [IF: 3.463]	288 2021/10/15

	Jayavel, Tusar Kanti		
	Behera, Anilabha Das		
	Munshi, Shilpi Kumari,		
	Sachin Kumar		
8	Fabrication of Ag/Ag2O	<u>Journal of</u>	Available online 7
	incorporated Graphitic	Environmental	July 2021, 105996
	carbon nitride based ZnO	Chemical	(2021)
	nanocomposite for	Engineering [IF:	
	enhanced Z-scheme	5.909]	
	photocatalytic performance		
	of various organic		
	pollutants and bacterial		
	disinfection S Vignesh, P		
	8		
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