
CURRICULUM VITAE

Dr. L. Karthik

Founder

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Communication committee member-International Chemical biology Society, USA

President-Society of Chemical and Synthetic biology

Top 2% of all scientists in the world (the Stanford University report published by Elsevier on 10th October 2022, 2023 &2024)

Train the Trainer certification from Life Sciences Sector Skill Development Council

OBJECTIVE

To pursue a teaching and research career and to keep abreast with the recent trends in the field by working towards a challenging task

EDUCATION

08.2008-	PhD
05.2013	School of Biosciences and Technology VIT University, India
06.2006-	MSc Applied Microbiology
05.2008	School of Biosciences and Technology VIT University, India
07. 2003-	BSc Applied Microbiology
05.2006	Thiruvalluvar University, India

PROFESSIONAL EXPERIENCE

04. 2025- **Founder and MD, Arqgene and Sasi Nutraceuticals**
Present

01. 2020-	Project Lead- Synthetic Biology
03.2025	Salem Microbes Private Limited Salem, India <i>Phage therapy, WGS, Kit development, Drug discovery, Synthetic biology</i> Project Completed and Product developed: 1. Whole genome sequencing (WGS) using Nanopore:

I carried out WGS (100 strains) and genome mining of industrial important microorganisms and Vibrio and Salmonella Phages sequences.

2. Genome mining

I am successfully genome mined new AHL inhibitor, aflatoxin inhibitor, Feruloyl esterase and further cloned and expressed successfully in Bacillus expression system and product is commercialized

3. QPCR Kits:

I has developed WSSV, Vibrio sps (multiplex), *Salmonella* sp and EHP QPCR Kits and it is about to release in market

4. Vibrio Phage therapy

Our team isolated several potential Vibrio phages and we are screening endolysin and depolymerases from Phages. The product is launched successfully in the name of V Phages.

5. Salmonella Phage therapy

Our team isolated several potential Salmonella phages and it showed very broad spectrum activity. The product is under field trial.

6. CRISPR Kit

Cas12a based Salmonella sp kit was developed

7. Synthetic biology

Using CRISPR technology, the avirulent strain developed and strain improvement for industrial important products work is going on.

Roles:

Lead the R and D team

Develop the new products

Meeting the Clients

01. 2017- 01. 2019	Postdoctoral Research Associate State Key Laboratory of Bioreactor Engineering, School of Biotechnology East China University of Science and Technology, Shanghai, China Laboratory of Prof.Lixin Zhang <i>CRISPR CAS 12A associated gene cloning</i>
01. 2015- 12. 2016	Postdoctoral Research Associate Marine Biotechnology Laboratory

& State Key Laboratory of Microbial Metabolism
School of Life Sciences & Biotechnology, Shanghai Jiao Tong University
Shanghai, China

Laboratory of Prof. Zhiyong Li

*A COMBINED APPROACH OF GENOMICS , TRANSCRIPTOMICS AND
PROTEOMICS TO FIND NEW ANTIBIOTICS FROM SPONGE/CORAL
ASSOCIATED MARINE ACTINOBACTERIA*

07.2013-	Assistant Professor
05.2014	Department of Biosciences
	Shri JTT University, Rajasthan, India
08.2009-	Research Associate
05. 2013	School of Biosciences and Technology
	VIT University, India
06.2007-	Graduate Research Assisatant
12.2007	CAS in Marine Biology
	Annamalai University
	Parangipettai, India
	Laboratory of Prof. K. Sivakumar
	<i>ISOLATION, PURIFICATION & STRAIN IMPROVEMENT OF PROTEASE PRODUCING MARINE ACTINOMYCETES</i>

Projects/Consultancy:

1. Study the Molecular mechanism of Parangipattai Chooranam on cancer by Next generation sequencing- Got Project from **CCRS, Dept.of Ayush, India**
2. A Combined approach of Genomics, Transcriptomics and Proteomics to Find New Antibiotics From Sponge/Coral Associated Marine Actinobacteria- **Chinese Post Doctoral Funding (2016) –(Grant No: 15005188).**
3. CRISPR Cas12 Kit - **Next 99, LLC, Fort Myers, FL, USA**
4. Enhancement of Q10 from *Rhodobacter* sp using CRISPR technology -**DST Ignition grant**
5. AI based photobioreactor – **DST NIDHI PRAYAS**

AWARDS RECEIVED

- **Fellow member of Linnean Society, London (2019).**
- **VIT BIOSUMMIT 2022 ALUMNI AWARD** on 5th edition of VIT BIOSUMMIT 22 at VIT University, TN, India (3-4 Nov, 2022).

- **COVID WARRIORS AWARD** from SEED TRUST, Madurai (26.02.23)
- **PSG Nanochallenge-2019** (National Level Competition) won to start Incubation Support
- **Second Prize** (Oral presentation) in Marine drugs conference organized by Shanghai Pharmaceutical Association, Shanghai, China (June 13, 2018)
- **Young Scientist Award-2016** from Indian Association of Applied Microbiologists (2016)
- **Research Scholar Award-** 2012 from VIT University
- I got **200 Young Scientist-2012** fellowship from Department of Science & Technology, India (Conference).
- **EMBO fellowship** for to attend Global Exchange Lecturer workshop for Molecular and evolutionary Genetics of Malaria held at NIMR, Newdelhi, India (November 21-December 4, 2010)
- Grant from **Department of Science & Technology, India** –To organize the conference (March 3-4, 2014)
- Grant from **Department of Science & Technology, India** –To organize the conference (November 22-23, 2014)
- Won **BEST STUDENT AWARD** in DMLT (2005)

RESEARCH INTERESTS

Marine natural products, Metagenomics, Synthetic Biology, Microbiology, Optogenetics, Plant natural products, Malaria, Cancer, nanomedicine, Drug delivery.

POSITIONS AND HONORS

- President, Society of Chemical and Synthetic biology, India
- Associate Editor of Frontiers in Microbiology
- Appointed as a Advisor of Center for Drug Discovery and Synthetic biology, Karpagam University, Coimbatore, Tamilnadu, India
- Review Editor on the Editorial Board of Microbial Symbioses (specialty section of Frontiers in Microbiology and Frontiers in Marine Science).
- Associate Editor - Current Chinese Engineering Science Journal (Bentham Science)
- Associate member of Green Chemistry Network
- Editorial board member of Current Biotechnology
- Editorial board member of The Open Biotechnology Journal

- Communication Committee member of International Chemical Biology Society, USA (2017- Till date)
- Head of E-cell, SIET, Coimbatore (30.05.19 – 30.12.19)
- Post Doctoral Fellowship from East China University of Science and Technology, China
- Post Doctoral Fellowship from Shanghai Jiao Tong University, China
- Doctoral Research Fellowship from VIT University, India
- Reviewer in International Journal of Environmental science and Technology, Frontiers in Microbiology and Frontiers in Biology, Biofilm (Nature), Scientific Reports (Nature), The Science of the Total Environment, International Journal of Biological Macromolecules etc
- Member of European Society of Nanomedicine
- Member of International Society for Environmental Information Sciences
- Life Member of International Society for Applied Life Sciences
- Life member of Indian Association of Applied Microbiologists
- Life member of Indian Association of Parasitology
- Life member of Chemical Biology Society, India
- Board member of Hindustan Arts and Science College, Coimbatore, India
- Member of Doctoral Committee at VIT,Vellore, Tamil Nadu and SRM, Chennai

RESEARCH PUBLICATIONS:

Total Publication (Scopus): 97 (Listed – 49 important papers)	Impact factor: 159.09	Patents: 6 (filled)
Technology transferred/Product developed: 2/4	Books/Book chapters: 6/18	Plenary/Guest Lectures: 100
h-index: 30 (Scopus) (citations: 3662)	Highest Impact factor: 19.16*	Conferences/workshop: 35 Newspaper: 2

RESEARCH PUBLICATIONS

1. Rameshkumar Dhanakoti, Vijayanand Dhanakoti, **Karthik Loganathan**, Mohandass Swathanthiram. Draft genome sequences of the strains isolated from Estuary Sediments. ASM Microbiology Resource Announcements. 2023. 12 (12) :e0050123.
2. V. Baskaran, **L. Karthik*** (2023). Phages for treatment of Salmonella spp. Infection. <https://doi.org/10.1016/bs.pmbts.2023.03.020>. Progress in Molecular Biology and Translational Science, Academic Press, 2023, ISSN 1877-1173 **(IF:4.025)**.

3. **Karthik Loganathan***, Baskaran Viswanathan (2023): Genome editing for phage design and uses for therapeutic applications <https://doi.org/10.1016/bs.pmbts.2023.03.012>. Progress in Molecular Biology and Translational Science (**IF:4.025**)
4. Mindong Liang, Leshi Liu, Fei Xu, Xiaoqian Zeng, Runjun Wang, Jinling Yang, Weishan Wang, **Loganathan Karthik et al.** Activating cryptic biosynthetic gene cluster through a CRISPR–Cas12a-mediated direct cloning approach. Nucleic Acids Research, 2022;., gkac181, <https://doi.org/10.1093/nar/gkac181>. **IF: 19.16**
5. Jingyu Zhang, Lan Jiang, Xiangyin Chen, Kangjie Lv, Mostafa Basiony, Guoliang Zhu, , **Loganathan Karthik**, Liming Ouyang, Xueting Liu, and Lixin Zhang. Recent advances in biotechnology for marine enzymes and molecules. Current Opinion in Biotechnology. 2021. 69:308-315 (**IF:10.279**). doi.org/10.1016/j.copbio.2021.05.009
6. Sathiyarajeswaran P#, Shree Devi MS#*, **Karthik L***, Kanakavalli K, Chandru S, Nirpendra Singh. In vitro antiviral activity of Kabasura Kudineer - Siddha polyherbal formulation against novel coronavirus (SARS-CoV-2). (May 8, 2021). Available at SSRN: <https://ssrn.com/abstract=3842077> or <http://dx.doi.org/10.2139/ssrn.3842077>
7. Gangarapu, Kiran*, **L. Karthik***, P, Sathiyarajeswaran and K, Kanakavalli and KM, Kumar and D, Ramesh Kumar and MS, Shreedevi. In Silico Computational Screening of Kabasura Kudineer - Official Siddha Formulation and JACOM - Novel Herbal Coded Formulation Against SARS-CoV-2 Spike protein. Journal of Ayurveda and Integrative Medicine. 2022. 13 (1): 100324. doi.org/10.1016/j.jaim.2020.05.009 (**Top cited article**)
8. L Jiang #, G Zhu # , J Han, C Hou, X Zhang, Z Wang, W Yuan, K Lv, Z Cong, X Wang , X Chen, **L Karthik**, H Yang, X Wang, G Tan, G Liu, L Zhao, X Xia, X Liu, S Gao, L Ma, M Liu, B Ren, H Dai, Ronald J Quinn, Tom Hsiang, J Zhang, L Zhang, X Liu. 2021. Genome-guided investigation of anti-inflammatory sesterterpenoids with 5-15 trans-fused ring system from phytopathogenic fungi. Applied Microbiology and Biotechnology. 105(13), pp. 5407–5417. **IF: 5.56**
9. Arivarasan, V.K., **Loganathan, K.**, Venkatesan, J., Chaskar, A.C. ‘Synergistic-Cidal’ Effect of Amoxicillin Conjugated Silver Nanoparticles Against *Escherichia coli*. BioNanoScience. 2021, 11(2), pp. 506–517
10. Guoliang Zhu,† Chengjian Hou,† Weize Yuan, Zhenzhen Wang, Jingyu Zhang, Lan Jiang, **Loganathan Karthik**, Bixiao Li, Biao Ren, Kangjie Lv, Wanying Lu, Zhanren Cong, Huanqin Dai, Tom Hsiang, Lixin Zhang and Xueting Liu. Molecular networking assisted discovery and biosynthesis elucidation of the antimicrobial spiroketals epicospirocins. Chem Commun (Camb) 2020 Aug 4. doi: 10.1039/d0cc03990j. **IF: 6.065**

11. Sivasankarapillai V, Vishnu Kirthi Arivarasan, M Akksadha, U Dhiviya Dharshini, S Indu, Pushpamalar Janarthanan and **L. Karthik***. Recent advancements in the applications of Carbon nanodots: Exploring the rising star of nanotechnology. RSC Nanoscale Advances. /doi.org/10.1039/C9NA00794F. **2020. IF:5.598 (selected to be part of a topical collection entitled Quantum and carbon dots)**
12. Mindong Liang, Zilong Li, Weishan Wang, Jiakun Liu, Leshi Liu, Guoliang Zhu, **Loganathan Karthik** et al.. CaT-SMelor, a CRISPR-Cas12a-derived biosensing platform for the highly sensitive detection of diverse molecule. Nature Communications. 10, Article number: 3672 (2019). **IF: 17.694**
13. Zhang J, Li B, Qin Y, **Karthik L**, Zhu G, Hou C, Jiang L, Liu M, Ye X, Liu M, Hsiang T, Dai H, Zhang L, Liu X. 2020. A new abyssomicin polyketide with anti-influenza A virus activity from a marine-derived *Verrucosisspora* sp. MS100137. Appl Microbiol Biotechnol. 104(4):1533-1543. **IF: 5.56**
14. Zhang J, Wang Z, Song Z, **Karthik L**, Hou C, Zhu G, Jiang L, Han J, Ma R, Zhang L, Liu, X., Hsiang, T. Brocaeloid D, a novel compound isolated from a wheat pathogenic fungus, *Microdochium majus* 99049. 2019. Synthetic and Systems Biotechnology. 4(4):173-179. **IF: 4.692**
15. Zhang F, Mulati N, Wang Y, Li Y, Gong S, **Karthik L**, Sun W, Li Z. Biosynthesis in vitro of bacillamide intermediate-heterocyclic AlaCysthiazole by heterologous expression of nonribosomal peptide synthetase (NRPS). 2019. J Biotechnol. 292:5-11. **IF: 3.595**
16. Zhang F, Wang Y, Jiang Q, Chen Q, **Karthik L**, Zhao YL, Li Z. 2018. Substrate selection of adenylation domains for nonribosomal peptide synthetase (NRPS) in bacillamide C biosynthesis by marine *Bacillus atrophaeus* C89". Journal of Industrial Microbiology & Biotechnology. 45(5):335-344. **IF 4.258**
17. **L. Karthik**, GauravKumar, Tarun keswani, Arindam Bhattacharyya, B. Palakshi Reddy, K. V. Bhaskara Rao. 2013. Marine Actinobacterial mediated Gold nanoparticles synthesis and their antimalarial activity. Nanomedicine nanotechnology biology and medicine, 9 (7): 951-960. **IF:6.458.**
18. **L. Karthik**, GauravKumar, Tarun keswani, Arindam Bhattacharyya, Sarat Chandar, K. V. Bhaskara Rao. 2014. Protease inhibitors from Marine actinobacteria as a potential source for antimalarial compound. PLOS ONE, 9(3). DOI: 10.1371/journal.pone.0090972 **IF:3.752**
19. **L.Karthik**, Gaurav Kumar, A.Vishnu Kirthi, A.A. Rahuman, K.V. Bhaskara Rao. 2014. *Streptomyces* sp LK3 mediated synthesis of silver nanoparticles and its biomedical application. Bioprocess and Biosystem Engineering, 37(2):261-267. **IF:3.434**

20. **L. Karthik**, Gaurav Kumar, K. V. Bhaskara Rao, A. Vishnu Kirthi, A. Abdul Rahuman. 2013. Entomopathogenic marine actinomycetes as potential and low-cost biocontrol agents against blood-sucking arthropods. *Parasitology Research*, 112 (11): 3951–3959. **IF: 2.383**
21. **L. Karthik**, Gaurav Kumar, K. V. Bhaskara Rao, G. Rajakumar, A. Abdul Rahuman. 2011. Larvicidal, Repellent and Ovicidal activity of Marine Actinobacteria against *Culex tritaeniorhynchus* and *Culex gelidus*, *Parasitol Res*, 108 (6): 1447-1455. **IF: 2.383**
22. **L. Karthik**, Gaurav Kumar, Kokati Venkata Bhaskara Rao. 2013. Antioxidant activity of newly discovered lineage of Marine actinobacteria. *Asian pacific journal of tropical medicine*, 6(4): 325-332. **IF: 3.041**
23. **L. Karthik**, Gaurav Kumar, K.V. Bhaskara Rao. 2010. Comparison of Methods and Screening of Biosurfactant Producing Marine Actinobacteria from Nicobar Marine sediment. *The IIOAB Journal*, 1(2): 34-38.
24. **L. Karthik**, Gaurav Kumar, K.V. Bhaskara Rao. 2010. Mutational effects on the protease producing marine actinomycetes isolated from *Scylla serretia*. *Pharmacologyonline*, 1: 221-227.
25. **L. Karthik**, Gaurav Kumar, K.V. Bhaskara Rao. 2010. Diversity of Marine Actinomycetes from Nicobar Marine sediments and its Antifungal Activity. *Int.J. of Pharmacy and Pharmaceutical Sciences*, 2(1): 199-203.
26. **L. Karthik**, Gaurav kumar, K. Siva Kumar, T. Thangaradjou, K.V. Bhaskara Rao. 2011. Isolation and characterization of protease producing actinobacteria from marine crab. *Elixir Bio Tech*, 39: 5098-5102.
27. Richa K., Bose H., Singh K., **L. Karthik**, Kumar G, K.V. Bhaskara Rao. 2013. Response surface optimization for the production of marine eubacterial protease and its application- *Res.J. Biotech*, 8(4): 78-85.
28. Ashwini. K, **L. Karthik**, Gaurav Kumar, K. V. Bhaskara Rao. 2013. Purification and Activity of Amylases of Marine *Halobacillus* sp amylus HM454199. *Indian journal of Geo marine science*, 42(6), 781-785. **IF: 0.553**
29. Veena S., Swetha D., **Karthik L**, Gaurav Kumar, K. V. Bhaskara Rao. 2016. Antibiofouling activity of marine actinobacterial mediated titanium nanoparticles. *Indian journal of Geo marine science*, 45(4): 583-590. **IF: 0.553**.
30. Jayaseelan C, A. Abdul Rahuman, G. Rajakumar, T. Santhoshkumar, A. Vishnu Kirthi, S. Marimuthu, A. Bagavan, C. Kamaraj, A. Abduz Zahir, G. Elango, K. Velayutham, K.V. Bhaskara Rao, **L. Karthik** and S. Raveendran. **2012**. Efficacy of plant-mediated

synthesized silver nanoparticles against hematophagous parasites. Parasitol Res. 111: 921–933 **IF: 2.383**.

31. Jayaseelan C, A. Abdul Rahuman, A. Vishnu Kirthi, S. Marimuthu, T. Santhoshkumar, A. Bagavan, K. Gaurav, **L. Karthik**, K.V. Bhaskara Rao, 2012. Novel microbial route to synthesize ZnO nanoparticles using *Aeromonas hydrophila* and their activity against pathogenic bacteria and fungi, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 90:78– 84.**IF: 4.831**
32. Kirthi AV, Rahuman AA, Jayaseelan C, **L. Karthik** , Marimuthu S, Santhoshkumar T, Venkatesan J, Kim SK, Gaurav Kumar, Sathish Kumar SR, Bhaskara Rao KV. 2012. Novel approach to synthesis silver nanoparticles using plant pathogenic fungi, Puccinia graminis. Materials Letters, 81: 69–72. **IF: 3.574**
33. Kumar G, **Karthik L**, K.V. Bhaskara Rao. 2013. Phytochemical composition and *in vitro* antioxidant activity of aqueous extract of *Aerva lanata* (L.) Juss. ex Schult. Stem (Amaranthaceae). Asian Pacific Journal of Tropical Medicine, 6 (3): 180-187. **IF:3.041**.
34. Shubhrasekhar C, Supriya M, **Karthik L**, Kumar G, K.V. Bhaskara Rao. 2013. Isolation, characterization, optimization and application of biosurfactant produced by marine actinobacteria isolated from Saltpan Soil from costal area of Andhra Pradesh, India. Res J Biotech, 8(1): 18-25.
35. Santhoshkumar. T, A. A. Rahuman, A. Bagavan, S. Marimuthu, C. Jayaseelan, A.V. Kirthi, C. Kamaraj, G. Rajakumar, A. A. Zahir, G. Elango, K. Velayutham, M. Iyappan, C. Siva, **L. Karthik**, K. V. Bhaskara Rao. 2012. Evaluation of stem aqueous extract and synthesized silver nanoparticles using *Cissus quadrangularis* against *Hippobosca maculata* and *Rhipicephalus (Boophilus) microplus*, Exp. Parasitology, 132 (2) :156-165. **IF: 2.132**.
36. Gaurav Kumar, **L. Karthik**, K. V. Bhaskara Rao, A. Vishnu Kirthi, C. Jayaseelan, A.A, Rahuman. 2012. Phytochemical composition, mosquito larvicidal, ovicidal and repellent activity of *Calotropis procera* (Ait.) R.Br. against *Culex tritaeniorhynchus* and *Culex gelidus* (Diptera: Culicidae), Bangladesh J Pharmacol, 7(1): 63-69. **IF: 1.143**
37. Marimuthu S, Rahuman AA, Jayaseelan C, Kirthi AV, Santhoshkumar T, Velayutham K, Bagavan A, Kamaraj C, Elango G, Iyappan M, Siva C, **Karthik L**, Rao KV. 2013. Acaricidal activity of synthesized titanium dioxide nanoparticles using *Calotropis gigantea* against *Rhipicephalus microplus* and *Haemaphysalis bispinosa*. Asian Pacific Journal of Tropical Medicine, 6(9):682-8. **IF: 3.041**.
38. Suki Roy, Shreta Chandni, Ishita Das, **Loganathan Karthik**, Gaurav Kumar, Kokati Venkata Bhaskara Rao. 2015. Aquatic model for engine oil degradation by rhamnolipid producing *Nocardiopsis* VITSISB. 3 Biotech. 5 (2): 153-164. **IF:2.893**

39. Roy S, Das I, Munjal M, **Karthik L**, Kumar G, Kumar S, Rao KVB. 2014. Isolation and characterization of tyrosinase produced by marine actinobacteria and its application in the removal of phenol from aqueous environment. *Frontiers in Biology*. 9 (4): 306-314.
40. Kapil Dev Sharma, Rajendra Prasad Saini, **Loganathan Karthik***. 2014. Current trends of antibiotic resistance in clinical isolates of *S.aureus*. *Frontiers in Biology*. 9 (4):287-290.
41. Singh K, Kumari R, Bose H, **Karthik L**, Kumar G, Rao KVB. 2014. Statistical media optimization and cellulase production from marine *Bacillus VITRKHB*. *3Biotech*. 4 (6): 591-598. **IF:2.893**.
42. Priyanka C, P. Kumar, S. Bankar, **L.Karthik***. 2015. *In vitro* antibacterial activity and gas chromatography–mass spectroscopy analysis of *Acacia karoo* and *Ziziphus mauritiana* extracts. *Journal of Taibah University of Science*. 9 (1): 13-19. **IF: 3.459**
43. Priyragini, S Veena, D Swetha, **Karthik L**, Kumar G, Rao KVB. 2014. Evaluating the effectiveness of marine actinobacterial extract and its mediated titanium dioxide nanoparticle in the degradation of azo dyes. *Journal of Environmental Sciences*. 26 (4): 775–782. **IF:6.796**
44. Agarwal A, Mehra A, **Karthik L**, Kumar G, Rao KVB. 2014. Antibiofouling property of marine actinobacteria and its mediated nanoparticle. *International Journal of Nanoparticles*. 7: 3/4. Feb, 2015
45. Bhaskara Rao KV, V. Ojha, Preeti, G. Kumar & **L Karthik** (2014) Phytochemical Composition and Antioxidant Activity of *Ficus benghalensis* (Moraceae) Leaf Extract, *Journal of Biologically Active Products from Nature*, 4:3,236-248.
46. Bala Verma, Pradeep Kumar, **Loganathan Karthik**, Dharumadurai Dhanasekaran, Olubukola Oluranti Babalola and Shivakumar Pulakeshappa Banakar (2015). Gas Chromatography - Mass Spectrometry Analysis and Antibacterial Activity of Bluish-Green Pigment from *Pseudomonas* sp. JJTBVK (KF836502), *Brazilian Archives of Biology and Technology*, 58 (4):628-635. **IF 1.18**
47. Sun W, Zhang F, He L, Karthik L, Li Z. 2015. Actinomycetes from the South China Sea sponges: isolation, diversity and potential for aromatic polyketides discovery. *Frontiers in Microbiology*. 6(OCT),1048. **IF 6.064**.
48. Feng G, Sun W, Zhang F, Karthik L, Li Z. 2016. Inhabitanacy of active Nitrosopumilus-like ammonia-oxidizing archaea and Nitrospira nitrite-oxidizing bacteria in the sponge *Theonella swinhoei*. *Scientific Reports* 6, 24966. **IF:4.996**.
49. Subramaniyan R, Veeranna P, Gaurav Kumar, **Karthik L**. Bhaskara Rao K.V. 2016 A novel approach for the biosynthesis of silver oxide nanoparticles using aqueous leaf extract

of *Callistemon lanceolatus* (Myrtaceae) and their therapeutic potential, *Journal of Experimental Nanoscience*. 11(6): 445- 458. **IF 2.024**

BOOKS

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2. A.Vishnu Kirthi, **L. Karthik**, Pushpa Janarthan (2021). Nanotechnology in Medicine. Springer Publisher. ISBN 978-3-030-61020-3. DOI. 10.1007/978-3-030-61021-0
3. A.Vishnu Kirthi, **L. Karthik**, Iddya Karunasagar (2023). Nanotechnological Approaches to the Advancement of Innovations in Aquaculture. Springer Publisher. ISBN 978-3-031-15518-5 ISBN 978-3-031-15519-2 (eBook). <https://doi.org/10.1007/978-3-031-15519-2>
4. **L.Karthik**. Actinobacteria: Microbiology to Synthetic biology (2021). Springer Publisher. ISBN 978-981-16-5835-8. DOI. 10.1007/978-981-16-5835-8
5. **L.Karthik**. Protocols of Actinomycetes: Microbiology to Gene editing". CRC Press, USA.
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BOOK CHAPTERS

1. **L. Karthik**, Gaurav kumar, K.V. Bhaskara Rao (2013). Environmental and Human Impact on Marine Microorganisms Synthesized nano particles In: Marine Biomaterials: Characterization, Isolation and Applications, Se-Kwon Kim (Ed), CRC Press 2013. pp.253-272. Print ISBN: 978-1-4665-0564-3. eBook ISBN: 978-1-4665-0565-0. DOI: 10.1201/b14723-14 (Invited chapter).
2. **L. Karthik** (2015). Protease inhibitors from Marineorganisms. In: Antimicrobials: Chemical and Natural compounds., D.Dhanasekaran (Ed), CRC Press (Invited chapter). ISBN No: 978-1-4987-1562-1
3. **L. Karthik**, Zhiyong Li (2019). Biosynthesis of natural products from microbes derived from sponges/corals. In: Symbiotic Microbiomes of Coral Reefs Sponges and Corals. Zhiyong Li (Ed), Elsevier publisher (Invited chapter). ISBN:978-94-024-1610-7
4. **L. Karthik**, Zhiyong Li (2019). Marine enzymes from microbial symbionts of sponges/corals. In: Symbiotic Microbiomes of Coral Reefs Sponges and Corals. Zhiyong Li (Ed), Elsevier publisher (Invited chapter). ISBN:978-94-024-1610-7

5. **L. Karthik**, A.Vishnu Kirthi, Zhiyong Li (2016). Marine Nanofactories in Food industry: Friend or Foe In: "Nanotechnology: Agricultural paradigm" (edited by Dr(s) Ram Prasad, Vivek Kumar, and Manoj Kumar). Elsevier publisher (Invited chapter).
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10. Sankaranarayanan Gomathinayagam, **Loganathan Karthik***, KodiveriMuthukaliannan Gothandam* (2021). Nanopore based long read sequencing technology to obtain highly contiguous whole genome sequence of actinobacterial genomes like Streptomyces sp. In: Methods in Actinobacteriology. Dhanasekaran D (Ed), Elsevier publisher (Invited chapter). ISBN 978-1-0716-1728-1
11. **Loganathan Karthik***, Arivarasan Vishnu Kirthi, Mahendran Ruckmani Vignesh, Palakshi Anitha (2022). CRISPR ERA: Current Applications and Future Perspectives on Actinobacteria. In: Actinobacteria: Microbiology to Synthetic biology. Karthik L (Ed), Springer publisher. ISBN 978-981-16-5835-8
12. Gangarapu Kiran, **Loganathan Karthik***, Gouthami Thumma, Arivarasan Vishnu Kirthi (2022). Genome Data Mining, Chemistry and Bioactivity of Sesquiterpenes from Actinobacteria In: Actinobacteria: Microbiology to Synthetic biology. Karthik L (Ed), Springer publisher. ISBN 978-981-16-5835-8
13. Ron Ma, **Karthik Loganathan (2022)**. Pharmacology of FDA Approved Medicines from Actinobacteria. In: Actinobacteria: Microbiology to Synthetic biology. Karthik L (Ed), Springer publisher. ISBN 978-981-16-5835-8
14. Kamarudheen Neethu, **Loganathan Karthik***, Zhiyong Li (2022). Non-ribosomally and ribosomally synthesized bioactive peptides (NRPS and RiPPs) from actinobacteria. In:

Actinobacteria: Microbiology to Synthetic biology. Karthik L (Ed), Springer publisher. ISBN 978-981-16-5835-8.

15. A Vishnu Kirthi, **L. Karthik**, Babu G (2022). Modern approach in Lectin Based Nanomedicine. In: Lectin-Innate immune defense and therapeutics. Sreeja Lakshmi, Preetham Elumalai (Ed), Springer publisher. ISBN 978-9811674617

16. A. Sai Ramesh, N. V. P. Meghana, Ayurika Tripathy, **L. Karthik**, G. Kiran, and Vishnu Kirthi Arivarasan (2023). Future Prospects of Nanotechnology in Aquaculture. In: Nanotechnological Approaches to the Advancement of Innovations in Aquaculture. A.Vishnu Kirthi, L. Karthik, Iddya Karunasagar (Ed). Springer Publisher. ISBN 978-3-031-15518-5

17. A. Sai Ramesh, Ayurika Tripathy, N. V. P. Meghana, **L. Karthik**, G. Kiran, and Vishnu Kirthi Arivarasan. Introduction of Nanotechnology Intervention in Aquaculture. (2023). Future Prospects of Nanotechnology in Aquaculture. In: Nanotechnological Approaches to the Advancement of Innovations in Aquaculture. A.Vishnu Kirthi, L. Karthik, Iddya Karunasagar (Ed). Springer Publisher. ISBN 978-3-031-15518-5

GUEST LECTURES/PLENARY LECTURES

- **Genome mining by RAST and antismash** Faculty Development Program (FDP) entitled, “Advanced In silico Computational Techniques in Drug Discovery and Development” from 19th to 23rd March, 2024 organized by School of Pharmacy, Anurag University, Hyderabad in association with Women’s Forum - APTI.
- **CRISPR: Kick Starting the revolution in drug discovery** International Conference on Microbial Bio prospecting for Sustainable Development Goals(ICMBSDG-2023)to be held on November 24-25, 2023 at Lovely Professional University, Punjab.
- **Higher Studies in Abroad-Panel Discussion** on 5th edition of VIT BIOSUMMIT 22 at VIT University, TN, India (3-4 Nov, 2022).
- **CRISPR:Cas12a** -Guest Lecture in Indrasil University, Gujarat, India on 21.04.2022
- **Entrepreneurship, Innovation in start-ups and Incubations** Faculty Development Programme on “ Advancements in Science and Technology ” organised by the Departments of Biotechnology and Biochemistry from June 24 to June 30, 2022 at the SRM Institute of Science and Technology, Chennai
- **CRISPR Era: Current and future perspectives** National Conference entitled "Integrated Biotechnological Tools and Concepts' to be held on September 23rd and 24th, 2021 at the SRM Institute of Science and Technology, Chennai.
- **“Exploration on marine actinobacteria nano factories and its application”.** International Symposium on Biosystems and Biodesign Engineering 2015” on Nov 1st(Sun)-Nov 3rd(Tue) at the East China University of Science and Technology, Shanghai, China

- **Drug Discovery from marine actinobacteria** - International virtual conference on Natural Products and Synthetic biology 2020” on July 4-5 at the VIT University, Vellore.
- **Actinobacteria from Microbiology to Synthetic biology-** The Seminar on Growth promoting Actinobacteria in Forest tree crops on 10.01.2020 at Institute of Forest Genetics and Tree Breeding, Coimbatore, India
- **CRISPR:** New gift from nature and Drug discovery in Vel Tech High Tech, Chennai on 27.09.19
- **“ Drug Discovery of marine Actinomycetes”** - Special Guest for DBT Sponsored Guest Lecture Programme in Muthayammal College of Arts & Science, Rasipuram, Namakkal, TN on 19.07.19
- Advanced Molecular and Immunological methods for rapid microbial Identification in VIT University, TN, India on 27-02-19.
- **Cryptic gene activation** in International conference on Microbiology, Sri Ganesh College of Arts and Science at Salem on 05-02-2016.
- **Nano in Siddha medicine** in Sivaraj Siddha Medical college at Salem on 05-02-2016.
- **“Production and Application of Bioactive molecules from Marine sources”** in Sri Ganesh College of Arts and Science at Salem on 03-09-2013
- **“Biological synthesis of nanoparticles and its application”** in National conference of Recent trends in Chemical sciences, Shri JYT University at Jhunjhunu on 11-12 April, 2014.
- **“Nanobiotechnology”** in Annai College of Arts and Science at Kumbakonam on 26-12-2014.
- **“Nanotechnology”** in Creation of Scientific Awareness Programme for Students organized by Sri Ganesh College of Arts and Science at Salem on 22-07-2014 sponsored by Tamilnadu State Council for Science and Technology, Chennai.
- **“Gold Nanoparticles for Malaria treatment”** in Selvam Arts and Science College at Namakkal on 31.12.2014
- **“Nanotechnology & its Application”** in Shanmuga Engineering College at Namakkal on 06.01.2015.

Newspaper:

Kabasura Kudineer against Omicron – Hindu Tamil News Paper 22.01.22

Papers presented and attended in Conferences/ Seminars/Symposia

1. **Karthik L, Zhiyong Li.** Sleep To Awake Using Nano ‘Clock’: Induce The Macrolactum Polyketidecompound From *Streptomyces* Sp.13-12-16. International chemical Biology Conference, China during 17-20 October, 2017.

2. Shivakumar P. Banakar, **Loganathan Karthik**, Yingxin Li, Fengli Zhang, Zhiyong Li Co-culture induced production and insilico study of Fumiquinazoline-J, which mitigates the Mycobacterium tuberculosis PknG kinase and MurC ligase. 3rd International symposium on sponge microbiology, China during 25-29 October, 2018.
3. **Karthik L**, Kumar G, Keswani T, Bhattacharyya A, Reddy BP, Rao KVB. Marine Actinobacterial mediated Gold nanoparticles synthesis and their antimalarial activity. International conference on Nano Bio 2012, Conducted by Amrita Centre for Nanosciences and Molecular Medicine, Kochi during 21-23 February, 2012
4. **Karthik L**, Kumar G, Rao KVB. Marine Actinobacterial mediated Titanium Dioxide nanoparticles synthesis. Conference on Nano Science and Technology (CONSAT-2012), Conducted by International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad during January 20-23, 2012.
5. Kumar G, **Karthik L**, Rao KVB, Mosquito controlling property of Indian medicinal plants, National Seminar on Application of Microbes in Management of Agricultural Environment, organized by Department of Microbiology, Sri Krishnadevaraya University, Anantapur, AP, India during 2011.
6. **Karthik L**, Kumar G, Rao KVB, Isolation and characterization of protease producing actinobacteria from marine crab, National Seminar on Application of Microbes in Management of Agricultural Environment, Sri Krishnadevaraya University, Anantapur, AP, India, 2011.
7. Aravamuthan N, Kumar G, **Karthik L**, Rao KVB In vitro antimicrobial activity of marine actinobacteria against evolutionary microorganisms, Bioconcorrenza'10, Tamil Nadu Agriculture University, 2010.
8. Kumar D, **Karthik L**, Kumar G, Rao KVB, Ecofriendly approach to synthesize silver nanoparticles using fungi and its potential antimicrobial activity towards MDR bacteria, Bioconcorrenza'10, Tamil Nadu Agriculture University, 2010.
9. **Karthik L**, Kumar G, Rao KVB, Screening and purification of novel antimalarial compounds from marine actinobacteria, EMBO Global Exchange Lecture Course on "Molecular and Evolutionary Genetics of Malaria Conference at NIMR, Delhi, India, December, 21 November to 04 December 2010.
10. Kumar G, **Karthik L**, Rao KVB, In vitro antimicrobial activity of Bauhinia racemosa Lamk. against clinical isolates, ICon-BSES, organized by School of Biosciences and Technology, VIT University, Vellore, TN, India during 2009.
11. **Karthik L**, Kumar G, Rao KVB, Biosurfactant activity of marine actinobacteria International Conference on Biotechnological Solutions for Environmental Sustainability (ICon-BSES), organized by School of Biosciences and Technology, VIT University, Vellore, TN, India during 21st - 23rd October 2009.
12. **Karthik L**, Diagnosis of Autoimmune Disease in Third National Conference on The Impact of Microbes on Human Life conducted by Indian Association of Applied Microbiologists and Adhiparasakthi College, Kalavai, 5-7 January, 2005.

13. **Karthik L.** Stem Cell in National Symposium on “Emerging Infection in India – Current Perspectives conducted by Vel’s College of Science, Chennai. 14-15 February, 2005.
14. **Karthik L.** ‘Recombinant Vaccine for HCV’ in State Level Symposium on “Bewilders Biochem -05” conducted by KMG College, 2-3 December, 2005.
15. **Karthik L.** Biosensor in Diagnosis of Cancer in National Seminar on “Recent Trends in Biotechnology conducted by Vivekananda College of Arts & Science, 16-17 February, 2007.
16. **Karthik L.** Participated in Forth CMC International Winter Symposium on “Molecular Insects in Digestive Disorder” conducted by Christian Medical College, Vellore, 15-16 December, 2005.
17. **Karthik L.** Participated in Tenth CMC International Winter Symposium on “Cellular and Molecular Medicine: Cancer, Stem cells and Inflammation” conducted by Christian Medical College, Vellore, 5-7 January, 2012.
18. **Karthik L.** Participated in Update in Tuberculosis conducted by Christian Medical College, Vellore, 19 August, 2006.
19. **Karthik L.** Participated in National symposium on Recent Trends in Health Science Research conducted by VIT University, Vellore on 18-19 August, 2006.
20. **Karthik L.** Participated in Lecture Workshop on Plant Genetic Resources: Mapping, Utilization and Conservation conducted by VIT University, Vellore on 23-25 July, 2009.
21. **Karthik L.** Presented and Participated in the symposium at the medical hackathon, "CAMTech India Medical Hackathon", organized by The International Consortium on Affordable Medical Technologies-CAMTech Nov 26, 2012 at VIT University, Vellore, India.
22. Priyanka, Pradeep, Shivakumar Bankar, **L. Karthik.** *In vitro* antibacterial activity and GCMS analysis of Acacia karoo and Ziziphus mauritiana extracts conducted by Shri JNT University, Jhunjhunu, 3-4 March, 2014. (**3rd prize**)
23. **Karthik L.** Gold nanoparticles and its cancer activity in National Level Symposium on Emerging trends in the Innovative Science Pursuit conducted by Sri Ganesh College of Arts and Science at Salem, 30 January, 2014.
24. Ramya Saravanan, Kiruba Palani, Sampath kumar B, Shree devi MS, **Karthik L.** Statistical Optimization Of Nilavembu Kudineer Using Rsm And Its Anti Bacterial Activity in National conference on A Prospective approach in Herbal Medicine and Microbiology conducted by Sivaraj Medical Colleges, Salem. November 22-23, 2014. (**2nd Prize**)
25. Singh S, Chakraborty I, Kumari R, Agarwal A, Mehra A, Ghosh E, Navelekar A, Mandal S, Jain D, **Karthik L,** Kumar G, Rao KVB. Portable culture kit for rapid detection of neonatal sepsis. Innovators Conclave for medical Technologies event organized by the Consortium for Affordable Medical Technology (CAMTech), MIT, USA at VIT University, Vellore during March 16-17, 2013. (**Selected in top eight**).
26. Roy S, Chandni S, **Karthik L,** Kumar G, Rao KVB. Quantitative TB strip device. Innovators Conclave for medical Technologies event organized by the Consortium for Affordable Medical Technology (CAMTech) at VIT University, Vellore, during March 16-17, 2013. (**1st prize by online voting**). (**Selected in top eight**).

27. L Karthik. Antimalarial cyclic dipeptides from sponge associated Streptomyces sp. 13-12-16. Biology of Bacteria Producing Natural Products organized by Leibniz-Institute DSMZ – German Collection of Microorganisms and Cell Cultures, Braunschweig & interfaculty Institute of Microbiology and Infection Medicine, Eberhard Karls, University Tübingen, Tübingen, Germany during 22.-23.09.2021 (Oral presentation).

28. Participated in SynBioSG Conference 2024 in NUS, Singapore on **22.02.2024**

WORKSHOP ATTENDED

1. Participated in FDP on Social Entrepreneurship conducted by IIT Madras in partnership with the Social Impact Lab at the University of Southampton, UK 25-27, 2019.
2. Workshop on Multidimensional NMR: Basic principle and its application conducted by VIT University Vellore, TN, India.
3. Workshop on Marine actinobacteria conducted by CAS in Marine Biology.
4. Workshop on downstream processing conducted by VIT University.
5. Participated in Faculty Development Program (FDP) on An Introduction to Statistical Analysis System (SAS) conducted by Survey Research Center and SBST, VIT University 20-21 November, 2012.
6. Participated in FDP on Molecular Docking, Simulation and Visualization conducted by SBST, VIT University on 18 March, 2011
7. Participated in FDP on Emerging chemistry perspectives and practices conducted by SAS, VIT University on 25-27 February, 2011
8. Participated in FDP on Challenges before emerging environmental biotechnology conducted by SBST, VIT University 2 March, 2011
9. Participated in FDP on Mathematics and Statistics for Biologists conducted by SBST, VIT University 5-7 July, 2011
10. Participated in FDP on Essentials of Good Research-Trends and Techniques conducted by SBST, VIT University 5-7 July, 2011

Conferences / Workshops Organized

1. Organized International conference on Make in India for the Biotech the way forward at Sri Shakthi Institute of Engineering and Technology, Coimbatore, TN, India. August 30-31, 2019-**As Organizing committee member**
2. Organized DST and SERB Sponsored National conference on Recent Trends and Future Prospects of Microbiology and Biotechnology at Shri JNT University, Jhunjhunu-333001. March 3-4, 2014-**As Organizing Secretary**
3. Organized DST Sponsored National conference on A Prospective approach in Herbal Medicine and Microbiology at Sivaraj Medical College, Salem. November 22-23, 2014-**As Organizing Secretary**
4. Organized FDP on Intellectual Property Right (IPR) at Shri JNT University, Jhunjhunu-333001. March 7, 2014-**As Convener**

5. Organized International conference on Shaping the future of India-Challenges for Effective Implementation of systems at Shri JTT University, Jhunjhunu-333001. December 27-28, 2013-**As Organizing committee member**

6. Organized National conference on Recent Advances and Emerging Issues in Science and Technology at Shri JTT University, Jhunjhunu-333001. November 21, 2013-**As Organizing committee member**

SCSB Conferences:

Our Society, 6 conferences successfully Organized in different Institutes.

SEQUENCE DEPOSITED AT NCBI, USA

GenBank Accession No	Name of the Nucleotide	Species name
1. GU358071	16S rRNA partial	<i>Streptomyces</i> sp.TKGB
2. KX604241	16S rRNA partial	<i>Streptomyces</i> sp JJTKK
3. LRMP000000000	Draft genome	<i>Brachybacterium</i> sp. sponge
4. HM454198	16S rRNA partial	<i>Bacillus</i> sp. Marinii
5. HM454199	16S rRNA partial	<i>Halobacillus</i> sp. Amylus
6. HM194888	28S rRNA partial	<i>Candida</i> sp VITDKGB
7. JF710608	16S rRNA partial	<i>Streptomyces</i> sp LK-3
8. JF710609	16S rRNA partial	<i>Streptomyces</i> sp LK-2
9. JF731235	16S rRNA partial	<i>Bacillus</i> VITARKGB
10. JF960957	16S rRNA partial	<i>Bacillus</i> VITRKBH
11. JN656212	16S rRNA partial	<i>Bacterium</i> VITLKGB
12. JN656213	16S rRNA partial	<i>Streptomyces</i> SRBVIT
13. JN656214	16S rRNA partial	<i>Streptomyces</i> sp VITSSB
14. JN656215	16S rRNA partial	<i>Bacillus</i> sp VITKHRB
15. JX646696	16S rRNA partial	<i>Bacillus</i> sp VITSNJB
16. JX646697	16S rRNA partial	<i>Pseudomonas</i> sp VITLAPB
17. JX397877	16S rRNA partial	<i>Streptomyces</i> VITSDSB
18. HF546396	16S rRNA partial	<i>Nocardiopsis</i> sp. VITSRTB
19. HF586420	16S rRNA partial	<i>Bacillus</i> sp. VITPGMB
20. KC958579	16S rRNA partial	<i>Nocardiopsis</i> VITSISB
21. KF806735	16S rRNA partial	<i>Streptomyces</i> <i>espinosus</i> VITMISB
22. KF836502	16S rRNA partial	<i>Pseudomonas</i> sp JJTBVK
23. JAKKFC000000000	WGS	<i>Enterococcus</i> <i>faecium</i>

		VITES07
24. JAKKFB000000000	WGS	Levilactobacillus brevis ES01

PATENTS

1. LOW COST NATURAL POLY HERBAL ANTI-DANDRUFF HAIR OIL (Indian Patent filled- E-2/409/2015-CHE) -technology transferred to Salem microbes Private Limited, Tamilnadu, India.
2. MAAS - Siddha Polyherbal Synergistic Bio Active Compound for the Management of SARS-CoV2 Virus infection and preparation method thereof (Indian patent 202041023924A)
3. Quantum carbon dots, nanoparticle based alternative to chemical dyes for staining nucleic acids (Indian Patent -E-101/13192/2020-CHE)
4. METHOD OF PREPARATION OF NATURAL FACE CARE CREAM AND FORMULATION THEREOF (Indian Patent-E1/44513/2020-CHE)
5. PROBIOTIC CHOCOLATE AND METHOD OF PREPARATION THEREOF (Indian patent- E1/44245/2020-CHE)
6. POLYHERBAL SIDDHA COMPOSITION FOR THE TREATMENT OF PREVENTION OF S.AUREUS INFECTION AND THEIR METHOD (Indian patent-E-101/12998/2020- CHE)
7. ANTI-MALARIAL COMPOUND ISOLATED FROM STREPTOMYCES SP 13-12-16 (Indian Patent -E-101/10316/2020-CHE)

CONFERENCE SPECIAL ISSUES

1. DST and SERB Sponsered National conference on Recent Trends and Future Prospects of Microbiology and Biotechnology at Shri JTT University, Jhunjhunu-333001. March 3-4, 2014 – **Special issue in International Journal of Taibah University of Science (Elsevier).**
2. DST Sponsered National conference on A Prospective approach in Herbal Medicine and Microbiology at Sivaraj Medical College, Salem. November 22-23, 2014 – **Special issue in International Journal of Malaya Journal of Biosciences.**

Other Academic Qualification

1. NACC committee- SIET, Coimbatore
2. E-cell Coordinator-SIET, Coimbatore
3. Placement Coordinator-SIET, Coimbatore
4. Convenor- PhD Course work exam, Shri JTT University, Jhnujhnu
5. Member- University Sports committee, Shri JTT University, Jhnujhnu
6. Member, Board of Studies in BioSciences course in Shri JTT University, Jhnujhnu.
7. Examiner – Ph.D Thesis evaluation/viva voce panel in the Karpagam University
8. Placement officer - Shri JTT University, Jhnujhnu
9. Member- Seminar and Journal Club committee, Sivaraj Medical College, Salem
10. Placement Coordiantor –SSIET, Coimbatore
11. Member, Board of Studies in Biotechnology course in SSIET, Coimbatore
12. In charge of E-cell and Bionest preparation committee

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DECLARATION

I do hereby declare that the above-furnished details are true to the best of my knowledge.

Place: Vellore

Yours Sincerely,



(L. KARTHIK)

REFERENCES

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