

Dr. Sinosh Skariyachan, Ph. D

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Assistant Professor

Department of Microbiology

St. Pius X College Rajapuram

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PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=Skariyachan>

GenBank: <https://www.ncbi.nlm.nih.gov/nucleotide/?term=Skariyachan>

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Google Scholar: <https://scholar.google.co.in/citations?user=BWu626YAAAAJ&hl=en>

Research Gate: https://www.researchgate.net/profile/Sinosh_Skariyachan

Publons: <https://publons.com/researcher/359811/sinosh-skariyachan-phd/>

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Institute website: <http://stpius.ac.in/departments/microbiology/faculty/faculty-profile/?id=53>

Objective

To achieve excellence in the field of academics, research and development in life sciences and engineering with commitment towards the team and the organization and expand my horizons to the scientific community

Educational qualifications

Certificate/ Course	Board/ University	Month and year of passing	Class/ Division
Ph. D	Visvesvaraya Technological University, Belagaum, Karnataka, India	May 2016	First
M. Sc. Bioinformatics	Bharathiar University Coimbatore, Tamilnadu, India	June 2008	First
M. Sc. Microbiology	Bharathiar University Coimbatore, Tamilnadu, India	April 2005	First
B. Sc. Microbiology	Kannur University, Kerala, India	April 2003	First
Plus Two	Board of Higher Secondary Examinations, Govt. of Kerala	May 2000	First
SSLC	Department of General Education, Govt. of Kerala	May 1998	First

- ❖ **Ph. D Thesis:** Molecular characterization of microorganisms present in Cauvery River and *in silico* analysis for probable drug targets.
- ❖ **M. Sc (Bioinformatics) Dissertation:** Predictive bioinformatics and *in silico* modeling of *Clostridium perfringens* delta enterotoxin.
- ❖ **M. Sc (Microbiology) Dissertation:** Isolation, identification and characterization of *Clostridium perfringens* from meat and poultry samples and their enterotoxin study.

National Eligibility Test (NET)

- ❖ Qualified the National Eligibility Test (NET) Conducted by Indian Council of Agricultural Research (ICAR) in 2019 for the discipline Agricultural Microbiology

Area of expertise/ domain of interest

- ❖ Microbial, Environmental, Medical and Food Microbiology
- ❖ Bioinformatics and Computational Biology, Genomics and Proteomics
- ❖ Molecular Modeling and Computational Drug Designing

Professional experiences

Teaching: **14.8 years**, Research: **11.7 years**

Duration	Institution	Position	Responsibilities
October 2019- Till Date	St. Pius X College Rajapuram, Kasaragod, Kerala.	Assistant Professor , Department of Microbiology.	1. Handling theory and laboratory sessions for undergraduate students in B.Sc Microbiology
July 2016- October 2019	Dayananda Sagar College of Engineering, Bangalore, Affiliated to Visvesvraya Technological University, Karnataka.	Associate Professor , Department of BE Biotechnology.	2. Handling theory and laboratory sessions for undergraduate students in BE Biotechnology and post graduate students in M. Tech. Bioinformatics
Dec 2012- June 2016	Dayananda Sagar College of Engineering, Bangalore, Affiliated to Visvesvraya Technological University, Karnataka.	Assistant Professor Department of BE Biotechnology.	3. Mentoring students for their project works (both BE & M. Tech)
March 2008- Nove 2012	Dayananda Sagar College of Engineering, Bangalore, Affiliated to Visvesvraya Technological University, Karnataka.	Lecturer Department of BE Biotechnology.	4. Coordinating various development activities for students in the department.
June 2005- February 2008	St. Pius X College Rajapuram, Kasaragod, Kerala.	Lecturer (On contact), Department of Microbiology.	Handling theory and laboratory sessions for undergraduate students in B.Sc Microbiology
2006-07	Deepa Nursing College Kanhangad, Kerala.	Guest Lecturer, General nursing & midwifery.	Handling theory and laboratory sessions for students in general nursing & midwifery.

Publications Summary**Research papers:**

- ❖ Number of citation: 386
- ❖ *h*-index-13
- ❖ *i10*-index-18
- ❖ Number of international publications-47
- ❖ Text book: 01
- ❖ Book Chapters: 07
- ❖ Conference abstract (National & International)-75

Publications (International journals): SCI Indexed journals

1. Skariyachan S, Gopal D, Kadam SP, Muddebihalkar AG, Uttarkar A, Niranjan V (2020). Carbon fullerene act as potential lead molecule against prospective molecular targets of biofilm-producing multi-drug resistant *Acinetobacter baumannii* and *Pseudomonas aeruginosa*: Computational modeling and MD simulation studies. *J Biomol Struct Dyn*. doi.org/10.1080/07391102.2020.1726821 (**Impact factor 3.31**)
2. Gopal D, Muddebihalkar AG, **Skariyachan S**, C AU, Kaveramma P, Praveen U, Shankar RR, Venkatesan T, Niranjan V. (2019). Mitogen activated protein kinase-1 and cell division control protein-42 are putative targets for the binding of novel natural lead molecules: a therapeutic intervention against *Candida albicans*. *J Biomol Struct Dyn*. 2019 Oct 29:1-16. doi: 10.1080/07391102.2019.1682053. (**Impact factor 3.31**)
3. **Skariyachan S**, Taskeen N, Ganta M, Venkata Krishna B (2019). Recent perspectives on the virulent factors and treatment options for multidrug-resistant *Acinetobacter baumannii*. *Crit Rev Microbiol*. 45(3): 315-333. (**Impact Factor: 5.697**)
4. **Skariyachan S**, Challapilli SB, Packirisamy S, Kumargowda ST and Sridhar VS (2019). Recent aspects on the pathogenesis mechanism, animal models and novel therapeutic interventions for Middle East Respiratory Syndrome Coronavirus Infections. *Front. Microbiol*. 10: 569. doi: 10.3389/fmicb.2019.00569 (**Impact Factor: 4.259**)
5. Manjunath M, **Skariyachan S** (2019). Screening of natural lead molecules against putative molecular targets of drug resistant *Cryptococcus* spp: an insight from computer aided molecular design. *Curr Top Med Chem*. 18: 31, 2681-2701. (**Impact factor 3.442**)
6. **Skariyachan S**, Govindarajan S (2019). Biopreservation potential of antimicrobial protein producing *Pediococcus* spp. towards selected food samples in comparison with chemical preservatives. *Int J Food Microbiol*. 291 (16): 189-196. (Impact Factor 4.006)
7. Keramagi AR, **Skariyachan S** (2018). Prediction of binding potential of natural leads against the prioritized drug targets of chikungunya and dengue viruses by computational screening. *3 Biotech*. 8:274. doi: 10.1007/s13205-018-1303-2 (**Impact Factor 1.786**)
8. **Skariyachan S**, Manjunath M, Bachappanavar N (2018). Screening of potential lead molecules against prioritized targets of multi-drug-resistant-*Acinetobacter baumannii* - insights from molecular docking, molecular dynamic simulations and *in vitro* assays. *J Biomol Struct Dyn*. 37(5):1146-1169. (**Impact Factor 3.310**)
9. **Skariyachan S**, Patil AA, Shankar A, Manjunath M, Bachappanavar N, Kiran S (2018). Enhanced polymer degradation of polyethylene and polypropylene by novel thermophilic consortia of *Brevibacillus* sps. and *Aneurinibacillus* sp. screened from waste management landfills and sewage treatment plants. *Polym. Degrad. Stab*. 149:52-68 (**Impact Factor 3.780**)
10. **Skariyachan S**, Sridhar VS, Packirisamy S, Kumargowda ST, Challapilli SB (2018). Recent perspectives on the molecular basis of biofilm formation by *Pseudomonas aeruginosa* and approaches for treatment and biofilm dispersal. *Folia Microbiol*. 63(4):413-432. (**Impact factor 1.448**)
11. Shankar A, Patil AA, **Skariyachan S** (2017). Recent perspectives on genome, transmission, clinical manifestation, diagnosis, therapeutic strategies, vaccine developments, and challenges of Zika virus research. *Front. Microbiol*. 8:1761.doi: 10.3389/fmicb.2017.01761(**Impact factor 4.259**)

12. **Skariyachan S**, Garka S, Puttaswamy S, Shanbhogue S, Devaraju R, Narayanappa R (2017). Environmental monitoring and assessment of antibacterial metabolite producing actinobacteria screened from marine sediments in south coastal regions of Karnataka, India. *Environ Monit Assess.* 189(6):283. doi: 10.1007/s10661-017-5999-y. **(Impact factor 1.959)**
13. **Skariyachan S**, Setlur AS, Naik SY, Naik AA, Usharani M, Vaisist KS (2017). Enhanced biodegradation of low and high density polyethylene by novel bacterial consortia formulated from plastic contaminated cow dung under thermophilic conditions. *Environ Sci Pollut Res Int.* 24 (9): 8443–8457 **(Impact factor 2.914)**.
14. Kamath S, **Skariyachan S** (2017). Novel insight from computational virtual screening depicts the binding potential of selected phytotherapeutics against probable drug targets of *Clostridium difficile*. *Interdiscip Sci.* doi:10.1007/s12539-017-0215-x **(Impact factor 1.418)**
15. **Skariyachan S**, Parveen A, Garka S (2016). Nanoparticle Fullerene (C60) demonstrated stable binding with antibacterial potential towards probable targets of drug resistant *Salmonella typhi* - A computational perspective and in vitro investigation. *J Biomol Struct Dyn.* 6:1-53. **(Impact factor 3.310)**.
16. **Skariyachan S**, Manjunatha V, Sultana S, Jois C, Bai V, Vasist KS (2016). Novel bacterial consortia isolated from plastic garbage processing areas demonstrated enhanced degradation for low density polyethylene. *Environ Sci Pollut Res Int.* 23(18):18307-18319. **(Impact factor 2.914)**.
17. **Skariyachan S**, Prasanna A, Manjunath SP, Karanth SK, Nazre A (2016). Exploring the Medicinal Potential of the Fruit Bodies of Oyster Mushroom, *Pleurotus ostreatus* (Agaricomycetes), against Multidrug-Resistant Bacterial Isolates *Int J Med Mushrooms.* 18(3): 245–252. **(Impact factor 1.423)**.
18. **Skariyachan S** (2016). Assessment of antibiotic resistance patterns of the fecal coliforms isolated from Cauvery River and screening of novel herbal lead molecules against probable drug targets of MDR pathogens by computational virtual screening. *Int J Infect Dis.* 45 (S1): 116. doi:10.1016/j.ijid.2016.02.294 **(Impact factor 3.538)**.
19. Setlur AS, Naik SY, **Skariyachan S** (2016). Herbal lead as ideal bioactive compounds against probable drug targets of Ebola virus in comparison with known chemical analogue: A computational drug discovery perspective. *Interdiscip Sci.* doi 10.1007/s12539-016-0149-8. **(Impact factor 1.418)**
20. **Skariyachan S**, Prasanna A, Manjunath SP, Karanth SS, Nazre A (2016). Environmental assessment of the degradation potential of mushroom fruit bodies of *Pleurotus ostreatus* (Jacq.: Fr.) P. Kumm. towards synthetic azo dyes and contaminating effluents collected from textile industries in Karnataka, India. *Environ Monit Assess.* 188(2):121. doi: 10.1007/s10661-016-5125-6. **(Impact factor 1.959)**
21. **Skariyachan S**, Acharya A, Subramaniyan S, Babu S, Kulkarni S, Narayanappa R (2015). Secondary metabolites extracted from marine sponge associated *Comamonas testosteroni* and *Citrobacter freundii* as potential antimicrobials against MDR pathogens and hypothetical leads for VP40 matrix protein of Ebola virus: An *in vitro* and *in silico* investigation. *J Biomol Struct Dyn.* 34(9):1865-1883. **(Impact factor 3.310)**.
22. **Skariyachan S**, Mahajanakatti AB, Grandhi NJ, Prasanna A, Sen B, Sharma N, Vasist KS, Narayanappa R (2015). Environmental monitoring of bacterial contamination and antibiotic resistance patterns of the fecal coliforms isolated from Cauvery River, a major drinking water source in Karnataka, India. *Environ Monit Assess.* 187(5):279. doi: 10.1007/s10661-015-4488-4 **(Impact factor 1.959)**

23. **Skariyachan S**, Pachiappan A, Joy J, Bhaduri R, Aier I, Vasist KS (2015). Investigating the therapeutic potential of herbal leads against drug resistant *Listeria monocytogenes* by computational virtual screening and *in-vitro* assays. *J Biomol Struct Dyn*. 33(12):2682-94. **(Impact factor 3.310)**.
24. Patil P, **Skariyachan S**, Mutt E, Kaushik S (2015). Computational analysis of the domain architecture and substrate-gating mechanism of prolyl oligopeptidases from *Shewanella woodyi* and identification probable lead molecules. *Interdiscip Sci Comput Life Sci*. (doi: 10.1007/s12539-014-0244-7). **(Impact factor 1.418)**.
25. **Skariyachan S**, Megha M, Kini MN, Mukund MK, Rizvi A, Vasist K (2014). Selection and screening of microbial consortia for efficient and ecofriendly degradation of plastic garbage collected from urban and rural areas of Bangalore, India. *Environ Monit Assess*. 187 (1): 4174. **(Impact factor 1.959)**
26. **Skariyachan S**, Narayan NS, Aggimath TS, Nagaraj S, Reddy MS, Narayanappa R (2014). Molecular modeling on streptolysin-O of multidrug resistant *Streptococcus pyogenes* and computer aided screening and *in vitro* assay for novel herbal inhibitors. *Curr Comput Aided Drug Des*. 10 (1): 59-74. **(Impact factor 1.2)**
27. **Skariyachan S**, Rao AG, Patil MR, Saikia B, Bharadwaj KNV, Rao GSJ (2014). Antimicrobial potential of metabolites extracted from bacterial symbionts associated with marine sponges in coastal area of Gulf of Mannar Biosphere, India. *Lett Appl Microbiol*. 58(3): 231-241. **(Impact factor 1.805)**.
28. Mahajanakatti AB, Murthy G, Sharma N, **Skariyachan S** (2014). Exploring inhibitory potential of curcumin against various cancer targets by *in silico* virtual screening, *Interdiscip. Sci*. 6(1): 13-24. **(Impact factor 1.418)**.
29. **Skariyachan S**, Lokesh P, Rao R, Kumar AU, Vasist K, Narayanappa R (2013). A pilot study on water pollution and characterization of multidrug resistant superbugs from Byramangala tank, Ramanagara district, Karnataka, India. *Environ Monit Assess*. 185(7): 5483-5495. **(Impact factor 1.959)**.
30. **Skariyachan S**, Jayaprakash N, Bharadwaj N, Narayanappa R (2013). Exploring insights for virulent gene inhibition of multidrug resistant *Salmonella typhi*, *Vibrio cholerae*, and *Staphylococcus aureus* by potential phytoligands via *in silico* screening. *J Biomol Struct Dyn*. 32(9): 1379-1395. **(Impact factor 3.310)**.
31. **Skariyachan S**, Prakash N, Bharadwaj N (2012). *In silico* exploration of novel phytoligands against probable drug target of *Clostridium tetani*. *Interdiscip Sci Comput Life Sci* (2012) 4: 1-10. **(Impact factor 1.418)**.
32. Shrinivasan M, **Skariyachan S**, Aparna V & Kolte VR (2012). Homology modelling of CB1 receptor and selection of potential inhibitor against Obesity. *Bioinformation* 8 (11): 523-528.
33. **Skariyachan S**, Mahajanakatti AB, Sharma N, Karanth S, Rao S and Rajeswari N (2012). Structure based virtual screening of novel inhibitors against multidrug resistant superbugs, *Bioinformation* 8(9): 420-425.
34. **Skariyachan S**, Krishnan RS, Siddapa SB, Salian C, Bora P and Sebastian D (2011). Computer aided screening and evaluation of herbal therapeutics against MRSA infections. *Bioinformation* 7(5): 222-233.
35. **Skariyachan S**, Mahajanakatti AB, Sharma N, Sevanan M (2011). Selection of herbal therapeutics against deltatotoxin mediated clostridial infections. *Bioinformation* 6(10): 375-379.

Publications in other peer reviewed journals

1. Satyanarayan V, Mohan D, **Skariyachan S**, Narayanappa R (2015). Computational virtual screening and preliminary cytotoxicity assay of novel herbal therapeutics on MCF-7 cell lines (2015). *International Journal of Applied Sciences & Engineering (IJASE)*. 1 (1): 65-71.
2. Showmy KS, **Skariyachan S**, Yusuf A (2014). Comparative modelling of pathogenesis related 4b protein (Q6T5J8) of *Oryza sativa* subsp. *indica* with the three-dimensional structure of barleyIBW3. *International Journal of Plant, Animal and Environmental Sciences*. 4(4): 41-50
3. **Skariyachan S**, Bharadwaj N, Prakash N (2012). Computer aided virtual screening and selection of novel phytoligands against shigellosis, *International Journal of Current Research*. 4(5): 84-90.
4. Reddy DMS, **Skariyachan S**, Palanivel B, Anish DT, Kiran J, Gopal R (2011). Viro-informatics: Finding a herbal remedy for AIDS and blocking the translation pathway of HIV glycoproteins by RNAi technique, *Int J Pharm Sci Rev Res*. 10 (1): 142-146.
5. Arpitha BM, Sharma N, **Skariyachan S** (2011). *In silico* investigation and docking simulations of CagA of *Helicobacter pylori*: A rational drug design for gastroduodenal cancer. *Journal of Carcinogenesis*, 10 (1): pp S2.
6. Rao SK, Biradar UB, **Skariyachan S** (2011). Discovery and evaluation of potential inhibitors for prostate and breast cancer. *Journal of Carcinogenesis*, 10 (1): pp S15.
7. **Skariyachan S**, Sharma N, Arpitha BM (2011). An integrative *in silico* characterization and docking studies of β -enolase: a novel therapeutic insight for β -enolase deficiency. *Int J Pharm Biosci* 2(1): 153-165.
8. **Skariyachan S**, Jagadeesh A, Kumar MS, Shetty MR, Singh VS (2010). Fermentative production and downstream characterization of single cell protein from food wastes. *Int J Pharm Sci Bio*. 1(4): 294-300.
9. **Skariyachan S**, Krishnan RS, Biradar UB (2010). *In silico* investigation and docking studies of E2F3 tumor marker: Discovery and evaluation of potential inhibitors for prostate and breast cancer. *Int J of Pharma Sci & Drug Res*. 2(4): 254-260.
10. **Skariyachan S**, Mahajanakatti AB, Biradar UB, Sharma N, Abhilash M (2010). Isolation, Identification and characterization of *Clostridium perfringens* from cooked meat poultry samples and *in silico* biomodeling of its delta enterotoxin. *Int J Pharm Sci Rev Res*. 4(2): 164-172.
11. **Skariyachan S**, Ashwini MP, Hina CHA, Jain DM, Abhilash M (2010). Design and discovery of novel therapeutic drugs against *Helicobacter pylori* gastroduodenal cancer by *in silico* approach, *Res J Pharm Biol Chem Sci*. 1(4): 1005-1016.
12. Arpitha BM, Sharma N, **Skariyachan S** (2010). *In silico* biomodelling and docking studies of claudin 1: A rational approach of drug design for enteropathogenic *E. coli* infections. *Int J Pharm Sci Res*. 9(1): 421-429.

Text book

- ❖ **Sinosh Skariyachan**, Abhilash M (2012). Introduction to Food Biotechnology, CBS publishers and distributors, New Delhi (ISBN: 9788123922072).

Book chapters

1. Bachappanavar N, **Skariyachan S** (2019). Combinatorial designing of novel lead molecules towards the putative drug targets of extreme drug-resistant *Mycobacterium tuberculosis*: A future insight for molecular medicine. In: Shaik N., Hakeem K., Banaganapalli B., Elango R. (eds) Essentials of Bioinformatics, Volume II. **Springer**, Cham (*Invited Book Chapter*)
2. **Sinosh Skariyachan**, Shruthi Garka (2018). Exploring the binding potential of carbon nanotubes and fullerene towards major drug targets of multidrug resistant bacterial pathogens and their utility as novel therapeutic agents. Fullerenes, Graphenes and Nanotubes: A Pharmaceutical Approach. Alexandru Mihai Grumezescu. (eds), Chapter 1, pp. 1-20. **Elsevier**, Cambridge, MA (*Invited Book Chapter*)
3. **Skariyachan S**, Manjunath M, Shankar A, Bachappanavar N, Patil AA (2018). Application of Novel Microbial Consortia for Environmental Site Remediation and Hazardous Waste Management Toward Low- and High-Density Polyethylene and Prioritizing the Cost-Effective, Eco-friendly, and Sustainable Biotechnological Intervention. In: Hussain C. (eds) Handbook of Environmental Materials Management. Chapter 1, pp. 1-48. **Springer**, Cham (*Invited Book Chapter*)
4. **Sinosh Skariyachan** (2017). Emergence of multidrug resistant bacteria in fresh water ecosystems (river) and screening of natural therapeutics against the probable drug targets of drug resistant pathogens by computational biology approaches. Recent advances in Applied Microbiology. Editor (s): Pratyooosh Shukla, Chapter 5, pp. 119-132. **Springer** (*Invited Chapter*).
5. **Sinosh Skariyachan** (2017). Exploring the potential of herbal ligands towards multidrug resistant bacterial pathogens by computational drug discovery. Dong-Qing Wei, Yilong Ma, William C.S. Cho, Qin Xu, Fengfeng Zhou (Eds.) Translational Bioinformatics and its application. Chapter 4, pp. 87-117, **Springer**. (*Invited Chapter*).
6. **Sinosh Skariyachan**, Anagha S Setlur, Sujay Y Naik (2017). Evolution and prevalence of multidrug resistance among food borne pathogens, Food-borne Pathogens and Antibiotic Resistance. Editor(s): Om V. Singh. Chapter 13, pp.-441-558. **John Wiley & Sons, Inc.**, NJ. (*Invited Chapter*).
7. **Sinosh Skariyachan** (2015). Inhibition of virulence potential of *Vibrio cholerae* by natural compounds. Sakharkar KR, Sakharkar MK, and Chandra R (Eds.). Post-genomic approaches in drug and vaccine development, Chapter 13, 333-367, River Publishers, Denmark. (*Invited Chapter*).

Conference proceedings (National and International)

1. Neha Taskeen, Alice Preethi Kishore, Bhavya Venkata Krishna, Gautami Naidu, **Sinosh Skariyachan** (2019). Development of cost effective biodigester for the combined degradation of plastic by specially formulated microbial consortia from cow dung. Bengaluru Tech Summit-Innovation and Impact. International symposium. Organized by Dept. of IT & BT, Government of Karnataka, Bangalore. 18-20 November 2019.

2. **Sinosh Skariyachan** (2019). Computational modeling, molecular dynamic simulation and in vitro studies suggested that natural epiesteriol is a potential inhibitor against Omp38, RecA, PyrE and PyrF targets of multi-drug resistant *Acinetobacter baumannii*. FEMS2019. 8th Congress of European Microbiologists. Organized by Federation of European Microbiological Society. Glasgow, Scotland, UK. 07-11 July 2019.
3. Aditi Sarathy, Ashlesha Anand Gogate, **Sinosh Skariyachan** (2019). Novel lead molecules screened from natural origin demonstrated stable binding potential towards putative drug targets of *Helicobacter pylori*-Insight for structure based drug discovery. National Seminar on New trends in Biotechnology & 14th Conference of Society of Cytologists and Geneticists. Jointly Organized by the Department of Biotechnology and Research Center, Bapuji Institute of Engineering and Technology, Davenegere and SS Institute of Medical Sciences & Research Centre, Davenegere. 06-08 March 2019.
4. Roshini Ravi Shankar, Tejaswini Venkatesan, Prinith Kaveramma Ulluvangada Praveen, Dharshini Gopal, **Sinosh Skariyachan** (2019). Application of natural lead molecules against the putative drug targets of biofilm producing extreme drug resistant *Pseudomonas aeruginosa* –Insight from structure based virtual screening. National Seminar on New trends in Biotechnology & 14th Conference of Society of Cytologists and Geneticists. Jointly Organized by the Department of Biotechnology and Research Center, Bapuji Institute of Engineering and Technology, Davenegere and SS Institute of Medical Sciences & Research Centre, Davenegere. 06-08 March 2019.
5. Renu Balaji, Mansi YV, **Sinosh Skariyachan** (2019). Multi-target approach using combinatorial libraries and computer aided virtual screening for discovering putative drug targets and novel lead molecules against *Mycobacterium tuberculosis*. National Seminar on New trends in Biotechnology & 14th Conference of Society of Cytologists and Geneticists. Jointly Organized by the Department of Biotechnology and Research Center, Bapuji Institute of Engineering and Technology, Davenegere and SS Institute of Medical Sciences & Research Centre, Davenegere. 06-08 March 2019.
6. Tejaswini Venkatesan, Dharshini Gopal, Prinith Kaveramma Ulluvangada Praveen, Roshini Ravi Shankar, **Sinosh Skariyachan** (2019). Virtual high throughput screening of novel lead molecules against the selected targets of nucleotide sugar metabolism of *Legionella pneumophila*. Four Day National Seminar on innovations in Science and Engineering. Jointly organized by Sir M Visvesvaraya Institute of Technology, Bangalore and The National Academy of Sciences, India (NASI), Bangalore Chapter. 25-28 February 2019.
7. Aditi G Muddebihalkar, **Sinosh Skariyachan**, Vaishnavi Badharinath, Bindu Umashankar, Daniya Eram (2018). Computational virtual screening demonstrated that natural lead molecules possess stable inhibitory potential towards selected drug targets of drug resistant *Acinetobacter baumannii*. 59th Annual Conference of Association of Microbiologists of India & International Symposium on Host-Pathogen Interactions. Organized by School of Life Sciences, University of Hyderabad in Association with Department of Microbiology, Osmania University. 9-12 December, 2018.
8. Vaishnavi Badharinath, **Sinosh Skariyachan**, Aditi G Muddebihalkar, Bindu Umashankar, Daniya Eram (2018). Computational virtual screening demonstrated that natural lead molecules possess stable inhibitory potential towards selected drug targets of drug resistant *Acinetobacter baumannii*. 59th Annual Conference of Association of Microbiologists of India & International Symposium on Host-Pathogen Interactions. Organized by School of Life Sciences, University of Hyderabad in Association with Department of Microbiology, Osmania University. 9-12 December, 2018

9. Aditi G Muddebihalkar, **Sinosh Skariyachan**, Vaishnavi Badharinath, Bindu Umashankar (2018). Novel herbal based ligands are potential therapeutics against prioritized drug targets of multidrug-resistant *Acinetobacter baumannii*: insight from computational modeling, molecular dynamics simulations and in vitro studies. Bengaluru Tech Summit, International symposium- "Innovation & Impact" Organized by Dept. of IT & BT, Government of Karnataka, Bangalore. 29 November-01 December 2018.
10. Vaishnavi Badharinath, **Sinosh Skariyachan**, Aditi G Muddebihalkar, Shruthi Garka, Sushmitha Puttaswamy, Shobitha Shanbhogue, Raksha Devaraju (2018). Antimicrobial peptides isolated from the marine actinomycetes in the coastal areas of South Karnataka demonstrated enhanced therapeutic potential towards selected multi-resistant pathogens. Bengaluru Tech Summit, International symposium- "Innovation & Impact" Organized by Dept. of IT & BT, Government of Karnataka, Bangalore. 29 November-01 December 2018.
11. Ashlesha Anand Gogate, Aditi Sarathy, **Sinosh Skariyachan** (2018). Prediction of the structural and functional aspects of putative drug targets of *Helicobacter pylori* by computational systems biology and modeling approaches. National Conference on Advances & Innovations in Biotechnology: Multidisciplinary Approaches to Food, Health, Environmental and Energy Issues & Annual meeting of Society for Biotechnologist (India). Jointly Organized by School of Basic and Applied Sciences, Dayananda Sagar University (DSU), Department of Biotechnology, Dayananda Sagar College of Engineering (DSCE), Bengaluru and Society for Biotechnologist (India) (SBT (I)). Bangalore. 15 & 16 November 2018.
12. Roshini Ravi Shankar, Tejaswini Venkatesan, Prinit Kaveramma Ulluvangada Praveen, Dharshini Gopal, **Sinosh Skariyachan** (2018). Novel lead molecules from natural sources indicating better binding potential towards the probable targets in biofilm formation of multidrug resistant *Pseudomonas aeruginosa*- An *in silico* investigation. National Conference on Advances & Innovations in Biotechnology: Multidisciplinary Approaches to Food, Health, Environmental and Energy Issues & Annual meeting of Society for Biotechnologist (India). Jointly organized by School of Basic and Applied Sciences, Dayananda Sagar University (DSU), Department of Biotechnology, Dayananda Sagar College of Engineering (DSCE), Bengaluru and Society for Biotechnologist (India) (SBT (I)). Bangalore. 15 & 16 November 2018.
13. Gautami Naidu, Alice Preethi, **Sinosh Skariyachan** (2018). Investigating the probable lead molecules against antimicrobial resistant *Brucella abortus* by combinatorial chemistry and virtual screening approaches. National Conference on Advances & Innovations in Biotechnology: Multidisciplinary Approaches to Food, Health, Environmental and Energy Issues & Annual meeting of Society for Biotechnologist (India). Jointly Organized by School of Basic and Applied Sciences, Dayananda Sagar University (DSU), Department of Biotechnology, Dayananda Sagar College of Engineering (DSCE), Bengaluru and Society for Biotechnologist (India) (SBT (I)). Bangalore. 15 & 16 November 2018.
14. Sneha Basavaraj Challapilli, Swathi Packirisamy, **Sinosh Skariyachan**, Vaishnavi Sneha Sridhar, Supreetha Toplar Kumargowda (2017). Disseminating the therapeutic potential of novel metabolites extracted from endosymbiotic *Klebsiella* and *Pseudomonas* sps. present in marine sponges collected from coastal areas of South India. 58th Annual Conference of Association of Microbiologists of India & International Symposium on Microbes for Sustainable Development: Scope & Applications (MSDSA-2017). Organized by Babasaheb Bhimrao Ambedkar University, Lucknow, India, 16-19 November 2017.
15. **Sinosh Skariyachan** (2017). Identification of novel herbal based therapeutics against prioritized targets of multidrug resistant *Acinetobacter baumannii* by computer aided virtual screening. 12th International conference and 5th Asian congress on environmental mutagens

- with the 33rd annual meeting of KSOT/KEMS- "Innovation and insight in environmental mutagenesis and genomics. Songdo Convensia, Incheon, Korea. 12-16 November 2017.
16. Amulya Ashok Patil, Apoorva Shankar, Meghna Manjunath, Nikhil Bachappanavar, **Sinosh Skariyachan**, Kiran S (2017). Prioritizing the plastic degradation potential of novel thermophilic bacterial consortia screened from various waste management landfills and sewage treatment plants in selected areas of Karnataka state. Bengaluru India Bio-2017 & Bengaluru Tech Summit, International symposium- Ideate, Innovate, Invent" Organized by Dept. of IT & BT, Government of Karnataka, Bangalore. 16-18 November 2017
 17. Ambika R Keramagi, **Sinosh Skariyachan** (2017). Prediction of the binding potential of novel natural compounds against probable drug targets of Chikungunya and Dengue virus by computational drug discovery approach. ICMR sponsored national seminar on entrepreneurial opportunities in Biotechnology. Organized by Department of Biotechnology, Sir M Visvesvaraya Institute of Technology, Bangalore, 23-25 March 2017.
 18. Meghna Manjunath, Nikhil Bachappanavar, **Sinosh Skariyachan** (2017). Computer aided virtual screening illustrate that phytotherapeutics are potential lead candidates against probable drug targets of multidrug-resistant *Acinetobacter baumannii*. International conference on advances in cellular, genomic and epigenomic insights on environmental mutagenesis and health & 41st Annual meeting of Environmental Mutagen Society of India (EMSI). Organized by School of Life Sciences, Manipal University, Manipal. 27-29 January 2017.
 19. Liji P, **Sinosh Skariyachan**, Harikumaran Thampi BS (2016). The anti proliferative activity of butyric acid derivatives in colon cancer cell lines and their molecular docking studies with GPR109A receptor. 85th Annual Meeting of Society of Biological Chemists (India), CSIR-Central Food Technological Research Institute, Mysore, India, 21- 24 November 2016.
 20. Shruthi Garka, **Sinosh Skariyachan**, Sushmitha Puttaswamy, Shobitha S, Raksha Devaraju, Rajeswari Narayanappa (2016). Novel antimicrobial peptides from marine actinomycetes from coastal areas of South Karnataka and study of their therapeutic potential against multidrug resistant clinical pathogens. 57th Annual conference of Association of Microbiologist of India (AMI) and International Symposium on Microbes and Biosphere; what is new what is next, Jointly Organized by Guwahati, University and the Institute of Advanced Study in Science and Technology (IASST), Guwahati, Assam, India. 24-27 November 2016.
 21. Anagha S Setlur, Sujay Y Naik, Makam Usharani, Ashwini A Naik, **Sinosh Skariyachan** (2016). Application of novel thermophilic bacterial consortia screened from cow dung as an eco-friendly approach for the degradation of plastic garbage in Bengaluru city. 39th Series Student Project program -2015-16. State Level Seminar and Exhibitions, Karnataka State Council for Science and Technology (KSCST). Organized by B.L.D.E. Association's V. P. Dr. P.G. Halakatti College of Engineering & Technology, Vijapura, Karnataka. 19-20 August 2016.
 22. Asma Parveen, **Sinosh Skariyachan** (2016). Illustrating the binding potential of nanoparticles towards major drug targets of multidrug resistant *Salmonella typhi* and exploring the utility of nanoleads as novel therapeutic agents. International Conference on Nanotechnology (ICNANO-2016). Organized by Department of Nanotechnology, Visvesvaraya Technological University in association with Electrochemical Society of India and Indian Ceramic Society Bangalore Chapter, Muddenahalli, Chikkaballapur, Karnataka. 21-23 April 2016.
 23. **Sinosh Skariyachan** (2016). Assessment of antibiotic resistance patterns of the fecal coli forms isolated from Cauvery River and screening of novel herbal lead molecules against probable drug targets of MDR pathogens by computational virtual screening. 17 International Congress of Infectious Disease, Organized by Society for Infectious Disease. Hyderabad Convention Centre, Hi-Tech City, Hyderabad, India, 2- 5 March 2016.

24. Vishal Manjunatha, **Sinosh Skariyachan**, Kiran S Vasist (2016). Enhanced plastic degradation potential of novel microbial consortia of *Enterobacter* spp. and *Pantoea* spp. screened from various plastic garbage processing areas in Bangalore City. Bangalore India Bio-2016, International Conference, 9-11 February 2016.
25. Anagha S Setlur, Sujay Y Naik, **Sinosh Skariyachan** (2016). Herbal therapeutics as probable lead molecules against viral matrix proteins of Ebola virus: A computational virtual screening approach. National Symposium on Next Generation Sequencing and Microarray Data Analysis. Organized by Department of Computer Applications, M.S. Ramaiah institute of technology under TEQIP-II Program, 19 January 2016.
26. **Sinosh Skariyachan**, Vishal Manjunath, Subiya Sultana, Chandana Jois, Vidya Bai, Kiran S Vasist(2015). Formulation and characterization of novel plastic degrading microbial consortia isolated from plastic garbage processing areas of urban and rural Bangalore and study their biodegradation potential. 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology”. School of Life Science, Jawaharlal Nehru University, New Delhi, 7-10 December 2015.
27. **Sinosh Skariyachan**, Kiran S Vasist, Narayanappa Rajeswari (2015). Environmental monitoring of antibiotic resistance patterns of the fecal coliforms isolated from Cauvery River, major drinking water source in Karnataka, India and screening of novel herbal lead molecules against probable drug targets of MDR pathogens by computational virtual screening. 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology”. School of Life Science, Jawaharlal Nehru University, New Delhi, 7-10 December 2015.
28. Sujay Y Naik, Anagha S Setlur, **Sinosh Skariyachan** (2015). Computational virtual screening of herbal leads from *Syzygium aromaticum* and *Murraya koenigii* as probable lead molecules against the major drug targets of Ebola virus. One-Day seminar on management of lifestyle disorders through herbal products, Organized by Department of Biotechnology, Sir. M. Visvesvaraya Institute of Technology 10 October 2015.
29. Sanjana Govindaraja, Vijayashree Narasimha Kumar, Keerthana Narayanan, Meghashri Kuruba Lakshminarayan, **Sinosh Skariyachan**, Kiran S (2015). Exploring the potential of Bacteriocin producing *Pediococcus* spp. as bio preservative in food industry. National Conference on “Utilization of Bio-diversity for Value Added Products: Food, Pharma, Nutraceuticals and Biofuels (NCUBD – 2015)”. Organized by Dept. of Biotechnology, Chemical Engineering & Chemistry, Dayananda Sagar College of Engg., 25 & 26 September 2015.
30. Anagha Sletur, Sujay Y Naik and **Sinosh Skariyachan** (2015). National conference on utilization of biodiversity for value added products: food, pharma, nutraceutical and biofuels. Jointly Organized by Department of Biotechnology, Chemical Engineering, Chemistry, Dayananda Sagar College of Engineering, Bangalore, 25-26 September 2015.
31. Anagha Sletur, Sujay Y Naik and **Sinosh Skariyachan** (2015). Exploring the Biodegradation Potential of Nickel and Chromium Degrading Bacteria Isolated from Selected Electroplating Industries in Bangalore city. 2nd National Conference on Emerging trends in Science and Technology 2015, Organized by Saptagiri College of Engineering, Bangalore, 12 May, 2015.
32. Archana Acharya, Sumangala Babu, Vikram Bharadwaj KN, Mamatha R Patil, Aditya G Rao, Bagmita Saikia, **Sinosh Skariyachan**, Rajeswari Narayanappa (2015). Elucidation of Novel Therapeutic Metabolites from the Bacteria Associated with Marine Sponges Collected from Coastal Areas of South India. UGC Sponsored National Symposium on Microbe and Human Welfare. Jointly organized by Postgraduate Department of Biotechnology and Association of Microbiologists of India (Mysore Chapter), 23-24 March 2015.

33. Subiya Sulthana, Vishal Manjunath, Megha M, Meghna N Kini, Kamath Manali Mukund, Alya Rizvi, **Sinosh Skariyachan**, Kiran S Vasist (2015). Prioritizing the Bio degradation Potential of Novel Microbial Consortia Isolated from the Plastic Polluted Environments in Urban and Rural areas of Bangalore, Karnataka, UGC Sponsored National Symposium on Microbe and Human Welfare. Jointly organized by Postgraduate Department of Biotechnology and Association of Microbiologists of India (Mysore Chapter), 23-24 March 2015.
34. Shruthi Kulkarni, Saumya Subramaniyan, Vikram Bharadwaj KN, Mamatha R Patil, Aditya G Rao, Bagmita Saiki, **Sinosh Skariyachan**, Rajeswari Narayanappa (2015). Prioritizing the therapeutic potential of novel chromophoric and fluorophoric metabolites extracted from the bacteria associated with marine sponges collected from coastal areas of South India. UGC sponsored National conference on enzyme research in agriculture, food and Industrial Biotechnology (NCERAFIB-2015). Jointly organized by Karnataka Science and Technology Academy, Department of Science and technology, Govt. of Karnataka and Department of Chemistry & Biochemistry, Maharani's Science College for women, Bangalore, 12-13 March 2015.
35. Chandana Jois, Vidya Bai, Megha M, Meghna N Kini, Kamath Manali Mukund, Alya Rizvi, **Sinosh Skariyachan**, Kiran S Vasist (2015). Exploring the biodegradation potential of microbial consortia screened from the plastic contaminated soil samples in Urban and Rural areas of Bangalore, Karnataka. UGC sponsored National conference on enzyme research in agriculture, food and Industrial Biotechnology (NCERAFIB-2015). Jointly organized by Karnataka Science and Technology Academy, Department of Science and technology, Govt. of Karnataka and Department of Chemistry & Biochemistry, Maharani's Science College for women, Bangalore, 12-13 March 2015.
36. Apoorva Prasanna, Sirisha P Manjunath, Soujanya S Karanth, Ambika Nazre, **Sinosh Skariyachan**, Rajeswari Narayanappa (2015). Exploring the potential of cultivated *Pleurotus ostreatus* var. *florida* in mycoremediation and its application as novel therapeutics. Bangalore INDIA BIO 2015: Crystallizing India's Biotech future. Jointly organized by the Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka, Vision Group on Biotechnology, MM Activ Sci-Tech Communications, Bangalore, 9-11 February 2015.
37. Showmy K.S, **Sinosh Skariyachan**, Yusuf A (2015). Structural Elucidation of pathogenesis related 4b protein (Q6T5J8) of *Oryza sativa* subsp. *Indica* for crop improvement. 27th Kerala Science Congress. Alapuzha, Kerala. 27-29 January 2015.
38. Nisha Jayaprakash, Arpitha BM, **Sinosh Skariyachan**, Kiran S Vasist, Narayanappa Rajeswari (2015). Exploring the inhibitory potential of herbal ligands towards the drug resistant gene products of MDR isolates from Cauvery River, Karnataka, India. Metabolomics-2015. Organised by Department of Biochemistry, Indian Institute of Science, Bangalore, 12-13 January 2015.
39. Sinosh Skariyachan (2015). Molecular modeling and its emerging dimensions in agriculture, ICAR Winter School-2015 on Bioinformatics and its emerging dimensions in agriculture. Organized by Bioinformatics centre (DIC), Kerala Agricultural University, Thrissur, Kerala, 15 January 2015.
40. Anitha Pachiappan, Rupam Bhaduri, Jeenu Joy, Imlimaong Aier, **Sinosh Skariyachan**, Kiran Vasist (2014). Selection and screening of novel herbal inhibitors against multidrug resistant *Listeria monocytogenes* by structure based virtual screening and in vitro assay. 55th Annual conference of Association of Microbiologists of India, National conference on empowering mankind with microbial technologies (AMI-EMMT-2014). Organized by Tamil Nadu Agricultural University, Coimbatore India, 12-16 November 2014.
41. Sinosh Skariyachan (2014). Phylogenetic analysis and primer design. UGC Sponsored national workshop on recent trends in Bioinformatics. Organized by Department of Microbiology and Biochemistry, Pazhassiraja College Pulpally, Wayanad, Kerala. 15-17 December 2014.
42. **Sinosh Skariyachan**, Megha M, Meghna N Kini, Kamath Manali Mukund, Alya Rzv, Kiran S Vasist (2014). Selection and screening of microbial consortia for efficient and eco-friendly degradation of plastic wastes in Urban and Rural areas of Bangalore, Karnataka State Council for Science and Technology-37th Annual meeting and 37th series of Student Projects Programme - Seminar and Exhibition: 2013 - 2014, 28-29 July 2014, B.V. Bhoomaraddi College of Engineering and Technology, Hubli.

43. Megha M, Meghna N Kini, Kamath Manali Mukund, Usha BN, Divya, **Sinosh Skariyachan** (2014). Screening of nickel and chromium degrading bacteria from selected electroplating industries in urban areas of Bangalore and study of their biodegradation efficiency. National conference on recent advances, carrier prospects & entrepreneurial opportunities in Bioengineering and Biotechnology, Sir MVIT, Bangalore, Sponsored by AICTE, New Delhi. 24-28 March 2014,
44. Apoorva Prasanna, Sirisha PM, Jyothsna S, Savitri SN, **Sinosh Skariyachan**, Rajeswari Narayanappa (2014). Prioritizing the bio-preservation efficiency of *Lactobacillus sps.* over chemical preservatives and study of their inhibitory potential against food-borne pathogens, National conference on recent advances, carrier prospects & entrepreneurial opportunities in Bioengineering and Biotechnology, Sir MVIT, Bangalore, Sponsored by AICTE, New Delhi. 24-28 March 2014.
45. **Sinosh Skariyachan**, Kiran S Vasist, Rajeswari Narayanappa (2013). Prevalence of multidrug resistant bacteria in River Cauvery and computational virtual screening for natural inhibitors against MDR genes. 54th Annual conference of Association of Microbiologists of India (AMI-2013). Platinum Jubilee Celebrations for Association of Microbiologists of India (AMI) & International Symposium on 'Frontier discoveries and innovations in Microbiology and its interdisciplinary relevance' (FDMIR-2013), Maharshi Dayanand University Rohtak, Haryana, INDIA. November 17-20, 2013.
46. **Sinosh Skariyachan** (2013). Computer aided virtual screening and designing of novel therapeutic leads against virulent targets of multi-drug resistant bacteria isolates. Organized by GD Target Meeting: A leading online life science conference organizer, USA. October 15-17, 2013.
47. **Sinosh Skariyachan** (2013). Structure Prediction: Exploration of Structural insights towards functional studies of biomolecules-Emerging trends and future perspectives. UGC sponsored national seminar on Bioinformatics: Applications in modern Science. Jointly organized by Department of Zoology, Mercy College, Palakkad, Kerala & Bioinformatics centre, Kerala Agricultural University, Kerala. 26 September 2013.
48. Arpitha BM, Narasimha Sharma, **Sinosh Skariyachan** (2013). Prioritizing the anticancer properties of curcumin by computer aided virtual screening and molecular docking. International symposium on "recent advances in computational drug design". Jointly organized by Schrodinger & Indian Institute of Science. 16-17 September 2013.
49. Vikram Bharadwaj KN, Bagmita Saikia, Mamatha R Patil, Aditya G Rao, **Sinosh Skariyachan**, Jagannatha Rao GS (2013). Screening and characterization of potential therapeutic metabolites from symbiotic bacteria associated with marine sponges. International conference on convergence of science & management in education and research-A global perspectives, II edition, Organized by Centre for post graduate studies, Dayananda Sagar Institutions. 26-27 September 2013.
50. Jyothsna S, Savitri SN, Suchetha Palthalam, Aishwarya Gogate, **Sinosh Skariyachan**, Rajeswari Narayanappa (2013). *Lactobacillus sps* as biopreservative: Comparative analysis and optimization of preservation efficiency with chemical preservatives. International conference on convergence of science & management in education and research-A global perspectives, II edition, Organized by Centre for post graduate studies, Dayananda Sagar Institutions. 26-27 September 2013.
51. **Sinosh Skariyachan**, Kiran S, Rajeswari Narayanappa (2013). Selection of potential inhibitors against multidrug resistant pathogens by structure based virtual screening, 38th Annual conference of environmental mutagen society of India (EMSI), National conference on current perspectives on environmental mutagenesis and human health. Radiation Biology & Health Sciences Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 26-30 January 2013
52. Nisha GJ, **Sinosh Skariyachan**, Narasimha Sharma, Arpitha BM, Navya CP, Reshma Rao, Priyanka L, Kiran S, Rajeswari Narayanappa (2013). Structure based rational design of novel herbal inhibitors towards multidrug resistant pathogenic bacteria present in River Cauvery, Biotech for a better tomorrow". 13th Bangalore India Bio: International conference cum trade show: Organized by Vision Group on Biotechnology, Govt of Karnataka, 4-6 February, 2013.
53. Reshma Rao, **Sinosh Skariyachan**, Arpitha BM, Narasimha Sharma, Shruthi Rao, Shraddha Karanth, Nisha GJ, Navya CP, Priyanka L, Sagar Goyal, Akshatha Prasanna, Ballari Sen, Lamiya Ali, Kiran S, Rajeswari Narayanappa (2013). Cauvery River has become cesspool of multidrug resistant Pathogenic Coli forms: A major health concern in Karnataka State. Biotech for a better tomorrow". 13th Bangalore

India Bio: International conference cum Trade show: Organized By Vision Group on Biotechnology, Govt of Karnataka, 4-6 February, 2013.

54. **Sinosh Skariyachan**, Kiran S, Rajeswari Narayanappa (2012). A study on the prevalence of multidrug resistant pathogens in River Cauvery: a major health concern in Karnataka, South India. 53rd Annual conference of Association of Microbiologists of India (AMI), International conference on microbial world: Recent innovations and future trends, KIIT University, Bhubaneswar, Odisha, India. November 22-25, 2012.
55. **Sinosh Skariyachan** and Jagannatha Rao GS. International conference on biomolecular forms and functions, a celebration of 50 years of the Ramachandran Map. Indian Institute of Science, Bangalore, 8-11 January 2013.
56. Akshatha Prasanna, Ballari Sen, **Sinosh Skariyachan**, Kiran S , Rajeswari Narayanappa, Jagannatha Rao GS (2012). Computer aided virtual screening and *in vitro* evaluation of herbal therapeutics against Streptococcal infections, UGC and DBT sponsored National conference on “computational biology, pharmaceutical & life sciences, Maharani Lakshmi Ammanni College for Women, Bangalore, 23 – 24 November.
57. Naik Soumyalaxmi Narayan, Monika S, Sushmitha N, Tejaswini S, **Sinosh Skariyachan**, Kiran S, Rajeswari Narayanappa, Jagannatha Rao GS (2012). Structure based virtual screening of natural therapeutics against Streptococci mediated outbreaks and inhibition of their virulence potential. 5th Annual KSTA Conference-2012, State level conference on “Science and technology for societal transformation” Jointly organized by Karnataka Science and Technology Academy and Dayananda Sagar Institutions, 19-20 December 2012.
58. Usha BN, Divya Nethravathi R, Vinutha A, **Sinosh Skariyachan**, Sudhanva M Desai (2012). Microbial characterization of Nickel and Chromium degrading bacteria from electroplating industries in Bangalore and study of their biodegradation efficiency. 5th Annual KSTA Conference-2012, State level conference on “Science and technology for societal transformation” Jointly organized by Karnataka Science and Technology Academy and Dayananda Sagar Institutions, 19-20 December 2012.
59. **Sinosh Skariyachan** (2012). Structure prediction and computer aided modeling. UGC sponsored national seminar cum workshop on Bioinformatics-Current trends in Bioinformatics. Organized by Educational Multimedia Research Centre, University of Calicut. 08-09 August 2012.
60. Navya Bharadwaj, Nisha Prakash and **Sinosh Skariyachan** (2012). Selection and screening of novel herbal remedies against Shigellosis: An *in silico* virtual screening. National conference on green technologies, “fight pollution”, Organized by VTU, Karnataka State Pollution Control Board and Acharya Institute of Technology, 4-5 April 2012.
61. Priyanka L, Reshma Rao, **Sinosh Skariyachan** (2012). A pilot study of water pollution and characterization of multi-Drug resistant superbugs from Byramangala tank, Ramanagara district. National conference on green technologies, “fight pollution”, Organized by VTU, Karnataka State Pollution Control Board and Acharya Institute of Technology, April 4-5, 2012.
62. Divya Nethravathi R, Usha BN, Vinutha A, **Sinosh Skariyachan**, Sudhanva M Desai (2012). Microbial characterization of Nickel and Chromium degrading microorganisms from industrial effluents and study their efficiency of biodegradation. BIOCADENCE-2012, a national level symposium, Organized by Department of Biotechnology, KLE college of Engineering and Technology, Belgaum, 30 -31 March 2012.
63. Nisha GJ, Navya CP, **Sinosh Skariyachan** (2011). Design and discovery of novel therapeutic drugs against tetanolysin O toxin of *Clostridium tetani*: a novel pharmacological approach against tetanus. National conference on biopharmaceuticals and health care, Organized by Sir M Visvesvaraya Institute of Technology, Bangalore on 0^{4th} and 05 November 2011.
64. Priyanka Lokesh, Reshma Rao, **Sinosh Skariyachan**, Kiran S (2011). Prudent elucidation of physiochemical and bacterial characteristics of Byramangala tank, Ramanagara district. “Aarohan 2011”- State level symposium and inter-collegiate Biotechnology fest. Organized by Department of Biotechnology, New Horizon College of Engineering, Bangalore. 31 October, 2011.
65. Nisha GJ, Navya CP, **Sinosh Skariyachan** (2011). Computer aided drug design of novel therapeutic agents against Tetanus. National level conference CHEMEXCEL-2011, Organized by Department of Chemical Engineering, Bapuji Institute of Technology, Davanagere. 21 October 2010.

66. Priyanka Lokesh, **Sinosh Skariyachan**, Reshma Rao, Arushi Umeshkumar Gupta, Kiran S. Physiochemical and bacteriological characterization of Byramangala tank, Ramanagara district, Karnataka, India. Under the track water resources (SDEWES11-0645). Sponsored by UNESCO, 6th DUBROVNIK Conference on Sustainable Development of Energy Water and Environment System, Dubrovnik, Croatia. 25 – 29 September, 2011.
67. Narasimha Sharma, Arpitha BM, **Sinosh Skariyachan**, Kiran S (2011). Microbial characterization of *Clostridium perfringens* from cooked meat-poultry samples and *in silico* simulations of delta enterotoxin, Bangalore India Bio-2011, An international symposium. Organized by Vision group on Biotechnology, Department of IT & BT, Govt. of Karnataka, 04- 06 May, 2011.
68. Rao Shruti Krishnan, Usha B Biradar, **Sinosh Skariyachan** (2011). *In silico* investigation and docking studies of E2F3 tumor marker: Discovery and evaluation of potential inhibitors for prostate and breast cancer. National symposium on instrumentation (NSI-35), Jointly organized by Visvesvaraya Technological University, Belgaum and Instrumentation Society of India, Indian Institute of Science, 7- 9 January, 2011.
69. Arpitha BM, Sharma N, **Sinosh Skariyachan** (2011). *In silico* investigation and docking simulations of CagA of *Helicobacter pylori*: A rational drug design for gastroduodenal cancer. International conference on frontiers in carcinogenesis and cancer prevention: Scientific advances and public health initiatives, Jointly organized by Carcinogenesis Foundation of USA and Dayananda Sagar College of Engineering, Bangalore, India. 16 – 18 February 2011.
70. Narasimha Sharma, Arpitha BM, **Sinosh Skariyachan** and Kiran S. Microbial characterization of *Clostridium perfringens* from cooked meat-poultry samples and *in silico* simulations of Delta enterotoxin ,16th National Conference on aerobiology & National Symposium on Applications of Biotechnology in Environment Management & Medicine,. Bapuji Institute of Engineering & Technology, Davanagere. 19- 21 November 2010.
71. Narasimha Sharma, Arpitha BM, **Sinosh Skariyachan**. An integrative *in silico* characterization and docking studies of β - enolase: a novel therapeutic insight for β -enolase deficiency, National level conference CHEMEXCEL-2010, Organized by Department of Chemical Engineering, Bapuji Institute of Technology, Davanagere. 21-22 October 2010.
72. Arpitha BM, Narasimha Sharma, **Sinosh Skariyachan**, Kiran S (2010). *In silico* biomodelling and docking studies of Claudin 1: A rational approach of drug design for enteropathogenic *E.coli* infections, National conference on molecular medicine and nanobiotechnology, NIMHANS Convention Center, Bangalore. Organized by Sir MVIT & Reva Institute of Science and Management. 13- 14 October 2010.
73. **Sinosh Skariyachan**, Arpitha BM, Usha B Biradar (2010). Isolation, identification and characterization of *Clostridium perfringens* from cooked meat poultry samples and *in silico* biomodeling of its delta enterotoxin. International conference on convergence of science & engineering in education and research a global perspective in the new millennium, ICSE - 2010, Dayananda Sagar Institutions, Bangalore. 21-23 April 2010.
74. Vimala Bharadwaj, **Sinosh Skariyachan** (2009). Production of arachidonic acid from filamentous fungi *Mortierella alpine*, Symposium on emerging trends in nanobioscience and workshop on nanoscience and engineering, Dayananda Sagar Institutions, Bangalore. 19- 20 November, 2009.
75. **Sinosh Skariyachan**, Murugan S (2005). Adult and embryonic stem cells: scope and applications, National symposium on “recent trends in life science” organized by Oxford college of Arts & Science, Bangalore from 02-04 March 2005.
76. **Sinosh Skariyachan**, Murugan S (2004). Consumer’s attitude towards GM Foods. National seminar on “emerging trends in Microbiology” organized by Sri Ramakrishna College of Arts and Science for Women, Coimbatore from 24-25 August 2004.

Awards and honors

- ❖ **Conference attendance grant** from **Federation of European Microbiological Society** to attend FEMS 2019, Glasgow, Scotland, UK (2019).

- ❖ **Travel grant award from Science and Engineering Research Board (SERB), DST, Govt. of India** to attend FEMS 2019, Glasgow, Scotland, UK (2019).
- ❖ **Publon Peer Review Award-2019-** Top 1% of reviewers in (1) Biology and Biochemistry (2) Computer Science (3) Cross-Field on Publons global reviewer database by Web of Science group, Clarivate Analytics on September 2019.
- ❖ **Publon Peer Review Award-2018:** World's Top 1 % of Reviewer in Biology & Biochemistry in 2017-18 year awarded by Publon (2018).
- ❖ **Outstanding Faculty Award in Biotechnology** (2018): Centre for Advanced Research and Design, Vinus International Foundation.
- ❖ **Outstanding Reviewer** (2017). Journal of Genetic Engineering & Biotechnology (Elsevier)
- ❖ **Young Scientist Award:** Association of Microbiologists of India (AMI), under the category Medical & Veterinary Microbiology, 57th Annual meeting and International Symposium on Microbes and Biosphere; what is new what is next (2016)
- ❖ **Outstanding Reviewer** (2016). Journal of Molecular Catalysis. B, Enzymatic (Elsevier)
- ❖ **Travel grant award from Association of Microbiologist of India (AMI)** to attend the AMI 57th Annual conference and international Symposium (2016).
- ❖ **Young Investigator Award from India and South East Asia:** Society for Infectious Disease, 17th International Congress for Infectious Disease (2016).
- ❖ **Travel grant award from International Society of Infectious Disease (ISID)** to attend 17th International Congress for Infectious Disease (2016).
- ❖ **Best Poster Award:** National Symposium on Next Generation Sequencing and Microarray Data Analysis (2016).
- ❖ **Young Scientist Award Presentation (Organizers Award):** Association of Microbiologist of India, 56th Annual symposium and International Conference (2015).
- ❖ **Best poster award:** Metabolomics-2015. Indian Institute of Science, Bangalore (2015).
- ❖ **Travel grant award from American Society for Microbiology (ASM)** to attend the Culture Responsibility workshop (2014).
- ❖ **Best research project award,** 37th SPP program, Karnataka State council for Science and Technology, IISc, Bangalore (2014).
- ❖ **Best poster award:** National conference on recent advances, career prospects and entrepreneurial opportunities in Bioengineering and Biotechnology (2014).
- ❖ **Best poster award.** 38th EMSI Conference, Bhabha Atomic Research Centre, Mumbai (2013).
- ❖ **Special recognition award** for Poster. Bangalore India Bio-13 (2013).
- ❖ **Second prize** in Poster Presentation, National conference on computational biology (2012).
- ❖ **Best paper award** in R & D category, National conference on green technology (2012).
- ❖ **First prize** in poster presentation, National conference on green technology (2012).
- ❖ **Third prize** in oral presentation. State level symposium (2011).
- ❖ **First prize** in poster presentation. 16th National conference on aerobiology (2010).
- ❖ **First prize** in paper presentation. National level conference CHEMEXCEL-2010 (2010).
- ❖ **Second prize** in paper presentation. National conference on molecular medicine and nanobiotechnology (2010).
- ❖ **First prize** in poster presentation, Symposium on emerging trends in nanobioscience (2009).
- ❖ **Best outgoing student award,** St. Pius X College Rajapuram, Kasargod, Kerala (2003).
- ❖ **Best NSS volunteer** (2003).
- ❖ **Best NSS volunteer** of the year (2002).
- ❖ **Best Camper** in NSS ten day special camp (2001).

Funded research projects

1. Prudent elucidation of physiochemical & bacterial characteristics of Byramangala Tank, Ramanagara District. Vision Group of Science and Technology, Department of Science and Technology, Govt of Karnataka (No.VGST/ P-10/ SPiCE/ 2011-12/ 1069).

2. Selection and screening of microbial consortia for efficient and eco-friendly degradation of plastic wastes in Urban and Rural Areas of Bangalore, Sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bangalore – 560012 (Reference No. 37S0835) (2014).
3. Formulation and characterization of novel plastic degrading microbial consortia isolated from various places of Bangalore city and study of their bio degradation potential. Sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bangalore – 560012 (Reference No. 38S0142) (2015).
4. Application of novel thermophilic bacterial consortia screened from cow dung as an eco-friendly approach for the degradation of plastic garbage in Bengaluru City Sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bangalore – 560012 (Reference No. 39_BE_0074) (2016).
5. Prioritizing the plastic degradation potential of novel thermophilic consortia screened from various waste management landfills and sewage treatment plants in selected areas of Karnataka state: an eco-friendly biotechnological intervention for plastic waste management. Sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science Campus, Bangalore – 560012 (Reference No. 40S_BE_2123) (2017).

Accession numbers of the molecular sequences deposited in GenBank, NCBI, NIH

Number of sequences deposited: **34**

- MN431238, MN431232, MN251628, MN211551, MN108025, MH576917, MF359596, MF359595, MF359594, MF359592, MF359591, KY673793, KX788166, KX462782, KX462781, KX462780, KX462779, KX462778, KF225564, KF225563, KF225562, KF225561, KF225560, KT334809, KT334808, KT334807, KT334806, KT334805, KF225557, KF225556, KF225555, KF225554, KF225559

Professional body membership

1. Member, American Society for Microbiology (Membership ID. 57136715).
2. Life Member, The Indian Science Congress Association (No. L31638).
3. Life Member, National Academy of Biological Sciences (No. LM- 067-18)
4. Life Member, Association of Microbiologist of India (No. AMI/LM-212/2012).
5. Life Member, Environmental Mutagen Society of India (No. LM-460).
6. Life Member, Indian Biophysical Society (No. 1266)
7. Life Member, Society of Biological Chemist, Indian Institute of Science (No. 2442).
8. Life Member, Society for Biotechnologists (India) (No. L-912)
9. Life Member, IAENG Society of Bioinformatics (No. 117844).
10. Life Member, IAENG Society of Artificial Intelligence (No. 117844).
11. Life Member, International Association of Computer Science and Information Technology (IACSIT) (No.80345946).
12. Life Member, Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES) (No-201763)
13. Member, European Federation of Biotechnology
14. Member, International Association of Advanced Materials, Sweden (No.826291911931)
15. Member, The Science Advisory Board (SAB), USA
16. Member, International Society for Environmental Information Sciences.
17. Member, International Society for Infectious Diseases.

Academic and scientific society member

- ❖ Member, Board of Studies (UG), Microbiology, University of Calicut (Feb 2020- till date)

- ❖ Member, Board of Examiner (UG), Department of Biotechnology, Siddaganga Institute of Technology, Tumkur (2018-2019)
- ❖ Member, Board of Examiner (PG), Department of Food Technology, Jain University, Bangalore (2018-2019)
- ❖ Member, Board of Examiners (PG), Dept of Life Sciences, University of Calicut (2009- till date)
- ❖ Member, Board of Examiners (UG & PG), Biotechnology Board, Visvesvaraya Technological University, Belagaum (2016—2017)
- ❖ Member, Panel of Examiners (PG & UG), Biotechnology & Bioinformatics, Visvesvaraya Technological University, Belagaum (2008 –2019).
- ❖ Member, Board of Examiners (UG), University of Kannur (2005-2008; 2019-till date)
- ❖ Executive committee member, Society for Biotechnologist of India (SBT (I)- (2018-2019)

Editorial Board -International Journals

- ❖ **Associate Editor:** Computers in Biology and Medicine (Elsevier)
- ❖ *Editorial Board Member:* Informatics in Medicine Unlocked (Elsevier)
- ❖ *Editorial Board Member:* Current Biotechnology (Bentham Science)
- ❖ *Editorial Board Member:* Recent Patents on Food, Nutrition & Agriculture (Bentham Science)

Reviewer for international journals

Nature Group

1. Emerging Microbes and Infections (Nature)
2. Scientific Report (Nature)

American Chemical Society

3. ACS Nano

FEMS group

4. Pathogens and Disease

Frontiers

5. Frontiers in Bioengineering and Biotechnology
6. Frontiers in Microbiology

Elsevier

7. Environmental Pollution
8. Chemosphere
9. Ecotoxicology and Environmental Safety
10. Science of the Total Environment
11. Journal of Environmental Management
12. Archives of Medical Research
13. Journal of Molecular Graphics and Modelling
14. Biomedical and Environmental Sciences
15. Biomedicine & Pharmacotherapy
16. Phytomedicine
17. Pedosphere
18. Journal of Molecular Catalysis B-Enzymatic
19. Journal of Genetic Engineering and Biotechnology
20. Informatics in Medicine Unlocked
21. Computers in Biology and Medicine
22. Computational Biology and Chemistry

Springer

23. Applied Microbiology and Biotechnology
24. Environmental Science and Pollution Research
25. Molecular Biology Reports
26. International Journal of Peptide Research and Therapeutics
27. Interdisciplinary Sciences: Computational Life Sciences
28. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences
29. 3Biotech
30. International Journal of Environmental Research
31. SN Applied Sciences

Taylor & Francis

32. Journal of Enzyme Inhibition And Medicinal Chemistry
33. Journal of Receptors and Signal Transduction
34. Natural Product Research
35. Journal of Biomolecular Structure and Dynamics
36. Aquatic Ecosystem Health & Management
37. Archives of Agronomy and Soil Science
38. Chemistry and Ecology
39. Journal of Herbs, Spices & Medicinal Plants

Wiley

40. Medicinal Research Reviews
41. Journal of Applied Microbiology
42. Letters in Applied Microbiology
43. Archiv der Pharmazie

BioMed Central

44. BMC Bioinformatics
45. BMC Microbiology
46. Infectious Diseases of Poverty
47. Global Health Research and Policy

Royal Society

48. Royal Society Open Science

Future Science Group

49. Nanomedicine

Bentham Science

50. Combinatorial Chemistry & High Throughput Screening
51. Letters in Drug Design & Discovery
52. Current Enzyme Inhibition
53. Current Bioactive Compounds
54. Infectious Disorders - Drug Targets
55. The Open Conference Proceeding Journal

DeGruyter

56. Journal of Integrative Bioinformatics
57. Turkish Journal of Biochemistry

Thieme

58. *Planta Medica*

Indian Council of Medical Research

59. *Indian Journal of Medical Research*

60. *Experimental and Therapeutic Medicine*

Spandidos Publications

61. *Molecular Medicine Reports*

62. *Oncology Reports*

63. *Oncology Letters*

Inderscience

64. *International Journal of Bioinformatics Research and Applications*

Other Publishers

65. SYDOWIA - An International Journal of Mycology

66. *Expert Opinion on Environmental Biology* (International Publisher of Science, Technology and Medicine)

67. *Family Medicine and Community Health*

68. *American Journal of Food Science and Nutrition*

69. *Journal of Microbial & Biochemical Technology* (Omics Group)

70. *Journal of Microbiology, Biotechnology and Food Sciences*

71. *Journal of Biophysics and Structural Biology* (Academic journals)

72. *African Journal of Food Science* (Academic journals)

73. *African Journal of Microbiology Research* (Academic journals)

74. *African Journal of Agricultural Research* (Academic journals)

75. *Microbiology Indonesia*

76. *Bioinformation*

77. *Journal of Natural Science, Biology and Medicine*

Academic meetings

- ❖ Grantee, 8th Congress of European Microbiologists-FEMS2019.
- ❖ Delegate, 59th Annual Meeting of Association of Microbiologist of India (2018).
- ❖ Awardee, 4th Contemporary Academic Meet-VAM 2018-VIFA 2018
- ❖ Delegate, 58th Annual Meeting of Association of Microbiologist of India (2017).
- ❖ Young Scientist Awardee, 57th Annual Meeting of Association of Microbiologist of India (2016).
- ❖ Faculty coordinator, 39th SPP Program, Karnataka State Council for Science and Technology (2016).
- ❖ Delegate, 17th International Symposium of International Society for Infectious Disease (2015).
- ❖ Delegate, 56th Annual Meeting of Association of Microbiologist of India (2015).
- ❖ Invited delegate, CoE Biomolecular interaction meeting (2015).
- ❖ Invited delegate, ASM Culture Responsibility Workshop (2014).
- ❖ Staff coordinator, 37th SPP Programm, Karnataka State Council for Science and Technology (2014).
- ❖ Delegate, 55th Annual Meeting of Association of Microbiologist of India (2014).
- ❖ Delegate, 54th Annual Meeting of Association of Microbiologist of India (2013).
- ❖ Delegate, 38th Annual Meeting of Environmental Mutagen Society of India (2013).
- ❖ Delegate, 53rd Annual Meeting of Association of Microbiologist of India (2012).
- ❖ Delegate, Workshop on Finalization of the Syllabus for M. Tech in Bioinformatics and Biotechnology of VTU for the year 2012-13 held at Department of Biotechnology, RV College of Engineering, Bangalore (2012).

- ❖ Delegate, Workshop on Finalization of the Syllabus for BE in Biotechnology of VTU for the year 2010-13 held at Department of Biotechnology, Dayananda Sagar College of Engineering, Bangalore (2010)
- ❖ Delegate, Syllabus discussion workshop on Bioinformatics for BE Biotechnology of VTU, Belgaum, held at CMRIT Institute of Technology, Bangalore (2009).

Teaching: Subjects handled

Graduate Level: BE and B.Sc

- ❖ *Theory*: Microbiology, Molecular biology, Cell biology & Genetics, Structural biology, Biochemistry, Microbial biotechnology, Environmental microbiology, Food biotechnology, Bioinformatics, Gene chip and microarray technology, Genetic engineering, Genomics and proteomics, Protein engineering and *in silico* drug design, Gene chip and micro array technology and Biophysics and computer applications, Research Methodology, Biosafety and Bioethics, Molecular modeling and drug discovery
- ❖ *Practical*: Microbiology lab, Cell & Molecular biology lab and Bioinformatics lab, Genetic Engg & Immunotechnology Lab

2. Post Graduate level: M. Tech & M. Sc

- ❖ Bioinformatics: theory and practical

Number of Projects Guided

- ❖ Post graduate level (M. Tech) : 08
- ❖ Graduate level (B.E) : 30

Research Guide ship (PhD/M.Sc (Engg. Res.))

- ❖ Visvesvaraya Technological University, Belagavi (RSRI: VTU081783) (2017-present)
Number of students: 02

Workshops and entrepreneurship training programs

- ❖ **Delegate**: Work shop on “Art of Publication and Communication” Jointly Organized by International Society for Microbial Ecology (ISME) and Association of Microbiologists of India (AMI) on 11 December 2018 at University of Hyderabad.
- ❖ **Special invitee**: 4th Contemporary Academic Meet and Vinus International Faculty Awards-2018 organized by the Centre For Advanced Research and Design, Vinus International Foundation, Chennai on 07 July 2018.
- ❖ **Delegate**: Seven Days Faculty Development Programme on “Recent Advances in Nanotechnology for Sustainable World-2018” Jointly Organized by Department of Biotechnology Dayananda Sagar College of Engineering, School of Basic and Applied Sciences, Dayananda Sagar University, Centre for Incubation, Innovation, Research & Consultancy, Jyothy Institute of Technology, Association of Microbiologists of India (AMI), Bengaluru Chapter, from 19 to 26 June 2018.
- ❖ **Selected Delegate**: CoE Workshop on biomolecular interactions. Jointly Organized by NCBS, IISc. & DBT, Govt. of India at National Centre for Biological Sciences, Bangalore. November 25-28, 2015.
- ❖ **National trainer** (ASM culture responsibility): Selected as invited delegate to participate "Train the Trainers" workshop on ASM's new training series on “Culture of Responsibility.” Organized American Society for Microbiology (ASM), in collaboration with Jawaharlal Nehru University (JNU) and Society for Biosafety, October 13-14, 2014.
- ❖ **Delegate**: ASM special workshop on “Art of science communication”, 55th AMI Annual conference, TNAU, Coimbatore, India, 13th November 2014.

- ❖ **Delegate:** ASM special workshop on “Scientific writing and publishing”, 53rd Annual conference, KIIT University, Bhubaneswar, India, 22nd November, 2012.
- ❖ **Delegate:** UGC sponsored workshop for teachers “Promotion of ethics and human values” and completed the certificate course “Value based dynamic parenting”. November 2005 to March 2007.
- ❖ **Delegate:** UGC sponsored workshop for teachers “Promotion of ethics and human values” and completed the certificate course “Development of human values”. November 2005 to March 2007.
- ❖ **Delegate:** Two day workshop on “Research methodologies and latex” Organized by Visvesvaraya Technology University, Belgaum, 05 & 06 August 2011.
- ❖ **Delegate:** National workshop on “Chromatographic techniques” Organized by Amrita Institute of Medical Science & Research Centre, Cochin. 08-09 September 2005.
- ❖ **Delegate:** National seminar/workshop on “recent trends in industrial Biotechnology” conducted by Vivekananda College of Engineering for women, Trichencode from 14-15 February 2005.
- ❖ **Diploma:** Completed a diploma in MS Office from Bharathiar University, Coimbatore with first class (2004-05).

Invited talks as resource person

1. **Invited Speaker.** FEMS 2019. 8th Congress of European Microbiologists. Organized by Federation of European Microbiological Society. Glasgow, Scotland, UK. 07-11 July 2019. Topic: Computational modeling, molecular dynamic simulation and *in vitro* studies suggested that natural epiesteriol is a potential inhibitor against Omp38, RecA, PyrE and PyrF targets of multi-drug resistant *Acinetobacter baumannii*.
2. **Invited speaker.** DBT-HRD sponsored training programme on synthetic and molecular approaches for crop improvement. Department of Biotechnology. University of Agricultural Sciences, GKVK Campus, Bangalore-560 065. 11-16 March 2019. Topic: Computer aided molecular modeling: prediction of three dimensional structures and folding patterns of protein targets.
3. **Invited speaker.** National Conference on Recent Trends in Microbiology, Department of Life Sciences, University of Calicut, Kerala. 26-27 September 2017. Topic: Curtailing antimicrobial resistance by molecular modeling and computer aided lead discovery: A paradigm shift in Medical Microbiology.
4. **Invited speaker.** DBT Sponsored National Workshop in Chemoinformatics- *In silico* Craft Innovation. Bioinformatics infrastructure Facility (BIF), Department of Biotechnology, Calicut University, Kerala, 6-8 December 2016. Topic: Molecular modeling and macromolecular docking-New insights for cheminformatics analysis.
5. **Young Scientist Award Presentation** (Medical & Veterinary Microbiology). 57th Annual conference of Association of Microbiologist of India (AMI) and International Symposium on Microbes and Biosphere; what is new what is next" held on 24-27 November 2016 at Guwahatti University, Guwahatti, Assam. Topic: Antibiotic resistance patterns of the fecal coliforms in fresh water ecosystem and screening of novel herbal lead molecules against probable drug targets of MDR pathogens by computational virtual screening.
6. **Invited speaker.** Training program to Bioinformatics (09-12 August 2016). School of Applied Animal Production and Biotechnology, College of Veterinary and Animal Sciences, Kerala Veterinary and Animal University, Mannuthy, Thrissur, Kerala, 10 August 2016. Topic: Molecular modeling in drug designing.
7. **Invited speaker under Young Scientist category.** 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology”. School of Life Science, Jawaharlal Nehru University, New Delhi, 7-10 December 2015. Topic: Environmental monitoring of antibiotic resistance patterns of the fecal coliforms isolated from Cauvery River, major drinking water source in Karnataka, India and screening of novel herbal lead molecules against probable drug targets of MDR pathogens by computational virtual screening.

8. **Invited speaker.** DBT Sponsored workshop on Bioinformatics Tools & Applications, Organized by Department of Biotechnology, University of Calicut. 18-19 February 2015. Topic: Phylogenetic analysis-The phylome: Evolutionary foundations of Bioinformatics.
9. **Invited speaker.** ICAR Winter School: 2015. Bioinformatics Centre (DIC), Kerala Agricultural University, Thrissur, Kerala, 15 January 2015. Topic: Molecular modeling and its emerging dimensions in agriculture.
10. **Invited speaker.** UGC sponsored national workshop on recent trends in Bioinformatics. Organized by Department of Microbiology and Biochemistry, Pazhassiraja College Pulpally, Wayanad, Kerala. 15-17 December 2014. Topic: Phylogenetic analysis and primer design.
11. **Invited speaker:** Two day seminar cum workshop on computational biology applications. Sponsored by DBT, Jointly organized by Maharani Lakshmi Ammanni College for women, Bangalore and forum for excellence in education, Bangalore. February 14 & 15, 2014. Topic: Prevalence of multidrug resistant bacteria in river Cauvery and computational virtual screening for natural inhibitors against MDR genes.
12. **Plenary speaker:** TM's 3rd world drug discovery online conference. Organized by GD Target Meeting: A leading online life science conference organizer, October 15-17, 2013. Topic: Computer aided virtual screening and designing of novel therapeutic leads against virulent targets of multi-drug resistant bacterial isolates.
13. **Invited speaker:** UGC sponsored national seminar on Bioinformatics: Applications in modern Science. Jointly organized by Department of Zoology, Mercy College, Palakkad, Kerala & Bioinformatics centre, Kerala Agricultural University, Kerala. 26 September 2013. Topic: Exploration of Structural insights towards functional studies of biomolecules- Emerging trends and future perspectives.
14. **Subject expert:** Food Biotechnology, Edusat Programme, Visveswarya Technological University, Belgaum, India
15. **Content reviewer:** Bioinformatics, E-content development, Educational Multimedia Research Centre (EMMRC), University of Calicut, Kerala.
16. **Invited speaker:** UGC sponsored national seminar on Bioinformatics- Current trends in Bioinformatics. 08-09 August 2012, Organized by Educational Multimedia Research Centre, University of Calicut. Topic: Structure prediction.
17. **Invited speaker:** UGC sponsored national workshop on current trends in Bioinformatics. 09-10 August 2012, Organized by Educational Multimedia Research Centre, University of Calicut. Topic: Computer aided modeling and simulation.
18. **Invited speaker:** Inauguration of association of Microbiology, St. Pius X College Rajapuram, Kasaragod, Kerala. 25 October 2011. Topic: Emerging trends in protein engineering and application.

Member, organizing committee in National and International conferences

- **Organizing committee member:** UGC sponsored national seminar on “quality management systems and HACCP for food industries” organized by Dept. of Microbiology, St. Pius X College Rajapuram from 26-27 July 2000.
- **Organizing committee member:** National Conference on Genomics, proteomics and system biology” held at Indian Institute of Science, jointly organized by DSCE & SirMVIT, Bangalore from 01-03 September 2008.
- **Organizing committee member:** Symposium on emerging trends in nanobioscience and workshop on nanoscience and engineering, Dayananda Sagar Institutions, Bangalore. 19- 20 November, 2009.
- **Organizing committee member:** International conference on frontiers in carcinogenesis and cancer prevention: Scientific advances and public health initiatives, Jointly organized by Carcinogenesis Foundation of USA and Dayananda Sagar College of Engineering, Bangalore, India. 16 – 18 February 2011.

- **Organizing committee member:** 5th Annual KSTA Conference-2012, State level conference on “Science and technology for societal transformation” Jointly organized by Karnataka Science and Technology Academy and Dayananda Sagar Institutions, 19-20 December 2012.
- **Organizing committee member:** One day Symposium on Advances in Microbiology for Human Welfare, Organized by AMI Bangalore chapter, DSI, 15 May 2013
- **Organizing committee member:** National Conference on “Utilization of Bio-diversity for Value Added Products: Food, Pharma, Nutraceuticals and Biofuels (NCUBD – 2015)”. Organized by Dept. of Biotechnology, Chemical Engineering & Chemistry. 25 & 26 September 2015.
- **Joint Organizing Secretary:** Seven Days Faculty Development Programme on “Recent Advances in Nanotechnology for Sustainable World-2018” Jointly Organized by Department of Biotechnology Dayananda Sagar College of Engineering, School of Basic and Applied Sciences, Dayananda Sagar University, Centre for Incubation, Innovation, Research & Consultancy, Jyothy Institute of Technology, Association of Microbiologists of India (AMI), Bengaluru Chapter, from 19 to 26 June 2018.
- **Organizing Secretary:** National Conference on Advances & Innovations in Biotechnology: Multidisciplinary Approaches to Food, Health, Environmental and Energy Issues & Annual meeting of Society for Biotechnologist (India). Jointly Organized by School of Basic and Applied Sciences, Dayananda Sagar University (DSU), Department of Biotechnology, Dayananda Sagar College of Engineering (DSCE), Bengaluru and Society for Biotechnologist (India) (SBT (I)). Bangalore. 15 & 16 November 2018.
- **Organizing Secretary:** Five Days Faculty Development Programme on “Food and Fermentation Engineering” jointly Organized by Department of Chemical Engineering & Department of Biotechnology Dayananda Sagar College of Engineering, Bangalore from 05 to 09 August 2019.

Scientific Professional Society

Association of Microbiologist of India -Bangalore Chapter (Headed by DSI, Bangalore)

- Took active role in the establishment of AMI Bangalore Chapter at DSI campus
- Periodically attended AMI Annual Conference sand Annual Meeting and represented DSCE and AMI Bangalore chapter
- Executive Committee member (2012)
- Hon. Treasurer (2013-15)
- Hon. Secretary (2016- 2019)

Responsibilities undertaken in the previous institute (Dayananda Sagar Institutions)

PG Coordinator for M. Tech Bioinformatics

- Coordinated the PG activities in the dept (2015-2018)

Assistant Student Welfare Officer-DSI (2015- 2019)

- Periodic monitoring of the discipline in DSI hostels.

Member, Societies and Forum (2015-2019)

- Activities in the professional society of the college.

Department Website Coordinator (2015- 2017)

- **Responsibilities handled:** Maintaining the department website in a dynamic way with activities and periodic updates.

Department Proctor Coordinator (2011-2015; 2017- 2019)

- **Responsibilities handled:** Coordinated the mentoring/ proctorial activities in the department.

Program Coordinator-Short term Certificate Course in Computational Biology (2016)

- Conducted special hands on training programs in computational Biology for the graduate students from Computer Science, Medical Electronics and Biotechnology, DSCE.

Department Alumni Coordinator (2010-2019)**Activities:**

- Interacted with each alumnus from the department of Biotechnology (2010-2019) and to collect their suggestions and feedbacks about the vision, mission of the department and institutions
- Invited distinguished alumni and conducted exchange programs with third and four year students.
- Suggested the students for the internships/training programs/project works with the supports from the alumni

NAAC

- Actively participated in the NAAC and NBA activities in the college and department as per the directions from eth superiors.
- **Coordinator—Criteria-1**

NBA

- **Criteria Coordinator (Criteria-3)**
- **Module coordinator & Course Coordinator**

ISO & IQAC

- Faculty coordinator from the Department of Biotechnology

Coordinator (NPTEL, Online Courses)

- Encouraged the undergraduate students to enroll various online courses offer by National Programme on Technology Enhanced Learning (NPTEL, by Indian Institute of Technology), Swayam MOOCs (AICTE) and MITx.
- Coordinated and documented the online courses undertaken by undergraduate students in BE biotechnology.

Faculty Editor-Department Magazine (2018 & 2019)

- Faculty editor in department magazine –(1) “Chaperons: Helpers to serve the Society” released during the National Science day, February 2018 (2) “Biohrome: A powerful challenge towards colourful inventions, released during the National Science day, February 2019

BOS Member (DSCE Autonomous, Department of BT)

- Took lead role for the framing of the Syllabus for BE (Biotechnology) and M. Tech (Bioinformatics) by collecting the feedback from eth stake holders

NIRF Coordinator (Department of BT, DSCE Autonomous) (2018-2019)

- Coordinated the activities of Department of Biotechnology for NIRF ranking of DSCE

Other responsibilities undertaken

- Project coordinator (VII Sem) (2014 & 2015)
- Seminar coordinator (VIII Sem) (2013, 2014, 2017, 2019)
- Time table coordinator (2013)
- Test coordinator (2011-13)
- Class teacher/Coordinator (2008-present in all the semester)
- Faculty Coordinator: Science day (2018, 2019)

Co-curricular activities

National Service Scheme (NSS)

- ❖ **NSS State award**- Unit secretary, best NSS unit award from Govt. of Kerala (2003).
- ❖ Joined and served as an active NSS volunteer in St. Pius College Rajapuram (Unit No. 36 & 37) under the NSS cell, Kannur University, Kerala (2001 to 2003).
- ❖ National integration camp for NSS volunteers, Mangalore University (2002)
- ❖ Cultural Exchange for National Integration for, SDM College, Ujire, Mangalore University (2002).
- ❖ Three University leadership training camps for NSS volunteers, Kannur University (2001 – 2003)
- ❖ Three Ten day special camping program for NSS volunteers (2001 – 2003).

Other activities

- ❖ **Secretary**-Alumni association, St. Pius X College Rajapuram, Kasaragod, Kerala (2009).
- ❖ **Editor in chief**- "*Blossomed ten years*"- Decennial souvenir of St. Pius X College Rajapuram, Kasargod, Kerala (2007).
- ❖ **Fine arts club secretary**- College Union, St. Pius X College Rajapuram, Kasaragod Kerala (2003).
- ❖ **Editor in chief**- "*Dhwani*" - Department magazine, Dept. of Microbiology, St. Pius X College Rajapuram, Kasaragod Kerala (2002).
- ❖ **Editor in chief**- "*Haritham*"-NSS Annual magazine, National Service Scheme, St. Pius X College Rajapuram, Kasaragod Kerala (2003).

Personal Profile

Permanent address : Vattakudiyil (House)
 Kolichal (P.O), Cherupanathady
 Rajapuram (Via)
 Kasaragod (Dist)
 Kerala – 671532

Name of the father : Mr. V.V Skariyachan

Sex : Male

Marital status : Married

Nationality : Indian

Date of birth : 29-06-1982

Languages known : English, Hindi, Malayalam, Kannada and Tamil

References

Dr. K. K. Anil Kumar, PhD

Associate Professor & Former Head

Dept of Microbiology, St. Pius X College Rajapuram, Kasaragod, Kerala

Email: akkalappat@gmail.com, Ph: +91 9446259112

Dr. N. Rajeswari, PhD

Associate Professor

Department of Biotechnology, Dayananda Sagar College of Engg., Bangalore, Karnataka

Email: rajeswari-bt@dayanandasagar.edu, nraja7@gmail.com, Ph: +91 9480648300

Dr. Sarala Gopalakrishnan, PhD

Associate Professor & Head

Dept of Microbiology, St. Pius X College Rajapuram, Rajapuram, Kasaragod, Kerala

Email: saralkrishn@gmail.com, Ph: +91 9447134111

Declaration

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

(Sinosh Skariyachan, PhD)