

RESUME

Dr. M. SANJIVKUMAR, M.Sc., M.Phil., Ph.D., ASRB-NET

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EDUCATIONAL QUALIFICATION

1, B.Sc. Microbiology, 2008

K.R. College of Arts and Science, Kovilpatti,
Thoothukudi District, Tamilnadu

2, M.Sc. Microbiology, 2010.

K.R. College of Arts and Science, Kovilpatti,
Thoothukudi District, Tamilnadu

3, M.Phil. Microbiology, 2012.

Periyar University, Salem – 11

4. Ph.D. Microbiology, 2018.

Centre for Marine Science and Technology,
Manonmaniam Sundaranar University, Rajakkamangalam – 02

5. Agricultural Scientists Recruitment Board (ASRB) NET -2018 & 2019 – Qualified

M.Sc. Project

Production, partial purification and stabilization of penicillin-G-acylase from *Bacillus subtilis* (M2).

M.Phil. Project

Exploration of therapeutic and industrially potent enzymes from Magnesite mine actinobacterium *Streptomyces albogriseolus* (M10A99).

Ph.D. Research Title

Biosynthesis, purification and characterization of xylanase from mangrove associated actinobacterium and its industrial application

Current Research Areas

- Microbiology (Bioactive compounds from Actinobacteria & Mangrove associated actinobacteria)
- Environmental Microbiology
- Food Microbiology & Bioprocess Technology
- Biotechnology & Nanotechnology

Teaching & Research Experience - 9 Years 2 months

a) Teaching Experience

- Worked as Pre-Doctoral Fellow and taken classes for P.G. and M. Phil students in Centre for Marine Science and Technology, Manonmaniam Sundaranar University from 22-02-2013 to 22-05-2017.
- Working as an Assistant Professor and taken classes for U.G. and P.G. students in K.R. College of Arts and Science, Kovilatti- 628503 from 19-06-2017

b) Research Experience

- Pre-Doctoral research experience in the area of Microbiology from February 2013 to May 2017 in CMST, M.S. University, Rajakkamangalam.

c) Students Research Project Guidance:

- B. Sc., Microbiology - 15 Candidates
- M. Sc., Microbiology - 18 Candidates

Conference / Seminar Attended

- Participated in the 9th National conference of Indian Association of Applied Microbiologists (IAAM) held at Periyar University on 14th and 15th October 2011.
- Participated and presented a paper entitled **“Production, partial purification and optimization of penicillin-G-acylase from *Bacillus subtilis*”** in the National seminar on “Molecular aspects of Microbiology” organized by the Department of Microbiology, Periyar University on 7th March-2012.
- Participated and presented a paper entitled **“Bioconversion and bioethanol production from agro-residues using a mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) under fermentation process”** in the International conference on Reasserting Microbial Biotechnology to Deflate Global Disease Burden (RMBT ‘15) organized by Department of Biotechnology, M. S. University, Tirunelveli during 28th and 29th September 2015.

- Participated and presented a paper entitled “**Biochemical and microbiological evaluation of ensiled fishery wastes and their utilization as biofertilizer for Bhendi (*Abelmoschus esculentus*)**” in the International conference on Environmental sustainability for Food Security (ENFOSE-2016) held at Sree Ayyappa College for Women, Chunkankadai, K.K. District on 22nd to 24th September 2016.
- Participated and presented a paper entitled “**Biosynthesis, purification and characterization of xylanase from mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) and its industrial application**” in the National Seminar on Marine Resources (NSMR) held at MDT Hindu College, Tirunelveli-10 on 3rd and 4th March 2016.
- Participated and presented a paper entitled “**Biobleaching property of β -1,4-xylanase from a novel mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) using pretreated rice straw pulp**” in the International Conference on Science and Technology and Management (ICSTM) held in Doha, Qatar on 25th and 26th February 2017.
- Participated in the International Conference on Genomics (**ICG - 2018**) held on 6th January 2018, at Holy Cross College (Autonomous), Nagercoil, Tamilnadu.
- Participated in the National seminar on “**Natural Calamities and Environmental Degradation along the Coast**” organized by the Dept. of Zoology, Lekshmipuram College of Arts and Science, Neyyoor, Kanyakumari held on 24th February 2018.
- Participated and presented a paper entitled “**Biobleaching property of xylanase from a novel marine associated actinobacterium *Streptomyces variabilis* (MAB3) using pretreated rice straw pulp**” in the National Seminar on Biopolymer (NSBP-18) held on 19th September-2018, at Sadakathullah Appa College (Autonomous), Tirunelveli.
- Participated and presented a paper entitled “**Biosynthesis, purification and characterization of chitinase from crustacean wastes by an marine associated actinobacterium *Streptomyces olivaceus* (MSU3)**” in the National Conference on Future Trends in Marine Biotechnology (FTMBT - 2019) held on 14th & 15th February -2019, by Centre for Marine Science and Tchnology, Manonmaniam Sundaranar University, Rajakkamangalam, Kanyakumari.
- Participated in the International Conference on “Trigonal Facets of Drug Delineation” (**TFD’19**) held on 8th February 2019, organized by Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelvli.
- Participated in the International seminar on “Microbes and Climate Change” held on 17th July 2019, organized by Postgraduate & Research Dept. of Microbiology, Sri Paramakalyani College, Alwarkurichi - 627412, Tirunelvli.
- Participated in the National webinar on “**Use of Elsevier Tools in Research Workflow**” held on 5th May 2020, organized by Dept. of Commerce, University of Madras, Chennai.

- Participated in the 2nd International webinar workshop on “**Biomedical Applications in Traditional Research (BATR-2020)**” held on 18th & 19th May 2020, organized by Dept. of Biomedical Sciences, Alagappa University, Karaikudi.
- Participated in the National webinar on “**Environmental Issues and Climate Change in COVID-19 Scenario**” held on 2nd June 2020, organized by Tumkur University, University College of Arts, Karnataka – 572103.
- Participated in the International Virtual Seminar on “**Research Trends in Biotechnology and Its Applications**” held on 17th & 18th June 2020, organized by Dept. of Biotechnology, Thiruvalluvar University, Vellore.
- Participated and presented a paper in the National level seminar on “**Emerging Trends in Environment and Animal Health**” organized by the Dept. of Zoology, Rani Anna Government College for women, Tirunelveli held on 18 & 19th March 2021.
- Participated in the International seminar on “**Biotechnological Ways of Ensuring Food and Nutritional Security**” organized by the Dept. of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli held on 29th April 2022.
- Participated and Presented a paper entitled as “**Biotherapeutic Efficacy of Zinc Oxide Nanoparticles from an Estuarine Associated Actinobacterium *Streptomyces variabilis* (MAB3) and its Characterization**” on DBT Sponsored National Conference on Innovations in Biomaterials and Bionanotechnology: Applications in Agriculture, Biology and Healthcare (NCIBBA-2022), organized by Dept. of Science, M.G.R. College, Hosur, Tamil Nadu held on 10 & 11th November 2022.
- Participated and Presented a paper entitled as “**Biosynthesis and biomedical characterization of zinc oxide nanoparticles from a potent actinobacterium *Streptomyces spp.***,” in the National Conference on “Antimicrobial Resistance in the Environment: A Silent Pandemic” organized by Dept. of Microbiology, Scott Christian College (Autonomous), Nagercoil, Tamil Nadu on 10th April 2023.
- Participated and Presented a paper entitled as “**Bio-therapeutic applications of zinc oxide nanoparticles biosynthesized from an estuarine associated actinobacterium *Streptomyces spp.***,” in the CSIR & TNSCST sponsored 1st National Conference on “Biomaterials in Health Care 2023” organized by Sree Balaji Medical College and Hospital, Chennai, Tamil Nadu on 18 -19th August 2023.

Workshop/FDP/Training Programme Attended

- Participated in the NPTEL & AICTE sponsored Twelve weeks ‘Faculty Development Programme’ on “AIR POLLUTION AND CONTROL” Funded by The Ministry of HRD, Govt. of India, from Jan-April 2023
- Participated in the NPTEL & AICTE sponsored Twelve weeks ‘Faculty Development Programme’ on “AIR POLLUTION AND CONTROL” Funded by The Ministry of HRD, Govt. of India, from Jan-April 2022

- Participated in the NPTEL & AICTE sponsored Four weeks ‘Faculty Development Programme’ on “BIOMEDICAL NANOTECHNOLOGY” Funded by The Ministry of HRD, Govt. of India, from Aug-Sep 2021.
- Participated in the NPTEL & AICTE sponsored eight weeks ‘Faculty Development Programme’ on “NANOTECHNOLOGY IN AGRICULTURE” Funded by The Ministry of HRD, Govt. of India, from Sep-Nov 2020.
- Participated in the International Faculty Development Programme on “Advanced Materials for Sustainable Development” organized by Department of Science and Humanities, Dr. N.G.P. Institute of Technology, Coimbatore, from 15th to 19th June 2020.
- Participated in the Five Days Online ‘**Faculty Development Programme**’ on “Indigenous Knowledge Systems and Modern Education” organized by Sree Ayyappa College for Women and Shiksha Sanskriti Utthan Nyas, Chunkankadai, K.K. District from 25th to 29th May-2020.
- Participated in the DST & EDII sponsored twelve days ‘**Faculty Development Programme**’ on ENTREPRENEURSHIP” organized by Entrepreneurship Development Cell of National Engineering College, Kovilpatti – 628503, from 2nd to 14th Dec. 2019.
- Participated in the NPTEL & AICTE sponsored twelve weeks ‘**Faculty Development Programme**’ on “GENETIC ENGINEERING THEORY AND APPLICATION” Funded by The Ministry of HRD, Govt. of India, from Jul-Oct 2019.
- Participated in the two-days National workshop on “Recent Developments in Bioinformatics & Biotechnology” organized by Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli -627012, on 15th & 16th Oct -18.
- Participated in a national level training programme on “Application of molecular techniques in aquatic food quality analysis” conducted by the Dept. of Fish Quality Assurance and Management, School of Harvest and Post-Harvest Technology, Fisheries College and Research Institute, Thoothukudi from 14.03.2017 to 23.03.2017.
- Participated in the one-day National Level Hands-on-training programme on “Homology Modeling and Molecular Docking” organized by Indian Science Congress Association (ISCA), Kolkata, held at Kongunadu Arts and Science College, Coimbatore-29, on 27th Dec–2017.
- Participated in the five days training and demonstration programme in Seaweed Farming organized by National Fisheries Development Board, Ministry of Agriculture, Govt. of India, held at CAS in Marine Biology, Annamalai University during the period from 09.02.2015 to 13.02.2015.

Training / Seminar/ Workshop organized

- Organized One Day Special Lecture Programme on “**An Overview of Cancer and its Precaution Methods**” held on 07th November-2022 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Convener & Organizing Secretary**).
- Organized One Day Community Development Programme on “**Awareness on Pneumonia diseases**” in collaboration with Department of Microbiology, held on 12th November-2021 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Coordinator**).
- Organized One Day webinar on “**Awareness on Zoonotic diseases**” in collaboration with Public Health Department, Kovilpatti held on 06th July-2021 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Coordinator**).
- Organized One Day webinar on “**Entrepreneurial Opportunities in Agriculture**” held on 28th May 2021 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Coordinator**).
- Organized One Day webinar on “**Role of Students in Combating the COVID-19 Pandemic**” held on 20th May 2021 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Organizing Secretary**).
- Organized One Day online Community Development Programme on “**Adolescent Health**” held on 30th January 2021 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Coordinator**).
- Organized One Day **International Level Webinar** on “**Applications of Algae**” held on 18th July 2020 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Organizing Secretary**).
- Organized One Day **National Level Webinar** on Life Sciences on 29th June 2020 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Organizing Secretary**).
- Organized One day “Dengue & AIDS Awareness Programme” for YRC Students of K.R. College of Arts and Science, K.R. Nagar, Kovilpatti on 26th August 2019 (**Coordinator**).
- One-day Microbiology Practical Workshop on 16th August 2019 at K.R. College of Arts and Science, Kovilpatti Thoothukudi District (**Coordinator**).

Research Articles Published

- **Cumulative Impact Factor: 77.737**
- Scopus: h-index: 12; Citation: 1489
- Web of Science (AAT-6174-2021): h-index: 8; Citation: 176
- Google Scholar: h-index: 11; i10 index: 12; Citation:361

- Research gate: h-index:11; Citation: 333

Publications

International Publications

- **Muthusamy Sanjivkumar**, Kasilingam Nagajothi, Tamilselvan Silambarasan, Sylvester Sayen Merlin Sophia and Alagarsamy Parameswari. (2023). A Review on Phytosynthesis of Nanoparticles and its Biomedical Applications: An Ecofriendly Approach. *International Journal of Current Microbiology and Applied Sciences*. 12(02):148-166.
- TamilSelvan Silambarasan, Chandrasekaran Ravikumar, **Muthusamy Sanjivkumar**, Ramamurthy Dhandapani. (2023) Eco-friendly approach for tannery effluent treatment and CO₂ sequestration using unicellular green oleaginous microalga *Tetradismus obliquus* TS03. *Environmental Science and Pollution Research*, 30(16), 48138 – 48156. (IF – 5.8).
- Silambarasan TamilSelvan, Balakumaran Manickam Dakshinamoorthi, Ravikumar Chandrasekaran, **Sanjivkumar Muthusamy**, Dhandapani Ramamurthy & Sendilkumar Balasundaram (2023). Integrating eco-technological approach for textile dye effluent treatment and carbon dioxide capturing from unicellular microalga *Chlorella vulgaris* RDS03: a synergistic method, *International Journal of Phytoremediation*, 25:4, 466-482 (IF – 4.003).
- Silambarasan Tamil Selvan, **Sanjivkumar Muthusamy**, Ravikumar Chandrasekaran, Dhandapani Ramamurthy, Sendilkumar Balasundaram (2022). Modeling and dynamic design of an artificial culture medium for heterotrophic cultivation of *Tetradismus obliquus* RDS01 for CO₂ sequestration and green biofuels production: an eco-technological approach. *Biomass Conversion and Biorefinery*. (IF – 4.0).
- Silambarasan Tamil Selvan, Ravikumar Chandrasekaran, **Sanjivkumar Muthusamy**, Sendilkumar Balasundaram, Dhandapani Ramamurthy (2022). Eco-technological method for carbon dioxide biosorption and molecular mechanism of the RuBisCO enzyme from unicellular microalga *Chlorella vulgaris* RDS03: a synergistic approach. *Biomass Conversion and Biorefinery*. (IF – 4.0).
- D. Rameshbabu, K. Sarojini, **M. Sanjivkumar**, R. Ramasubburayan, S. Prakash, M. Josephine Punitha, G. Immanuel, (2022). Investigation on characterization, antifouling and cytotoxic properties of zinc oxide nanoparticles biosynthesized by a mangrove-associated actinobacterium *Streptomyces olivaceus* (MSU3). *Archives of Microbiology* 204 (386):1-15. (IF – 2.8).
- **Muthusamy Sanjivkumar**, Tamilselvan Silambarasan, Subburaj Ananthi, Kubendran ThangaTharani (2022). Biosynthesis and characterization of zinc oxide nanoparticles from an estuarine-associated actinobacterium *Streptomyces* spp. and its biotherapeutic applications. *Archives of Microbiology* 204 (17):1-15. (IF – 2.8).
- **Muthusamy Sanjivkuar**, Murugan Deivakumari, Grasian Immanuel (2021). Investigation on spectral and biomedical characterization of rhamnolipid from a

marine associated bacterium *Pseudomonas aeruginosa* (DKB1). *Archives of Microbiology* 203:2297–2314. (IF – 2.8).

- M. Deivakumari, **M. Sanjivkumar**, A.M. Suganya, J. Ruban Prabakaran, A. Palavesam, G. Immanuel. (2020). Studies on reclamation of crude oil polluted soil by biosurfactant producing *Pseudomonas aeruginosa* (DKB1). *Biocatalysis and Agricultural Biotechnology*, 29: 101773 1-12. (IF – 4.0).
- **Muthusamy Sanjivkumar**, Kanagaraj Vijayalakshmi, Tamilselvan Silambarasan, Essam N. Sholkamy, Grasian Immanuel (2020). Biosynthesis, statistical optimization and molecular modeling of chitinase from crab shell wastes by a mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) using Box-Behnken design and its antifungal effects. *Bioresource Technology Reports*, 11: 1 – 15.
- **Muthusamy Sanjivkumar**, Silambarasan TamilSelven, Essam N. Sholkamy, Ashraf A. Mostafa & Immanuel Grasian (2020). Statistical optimization of biobleaching efficacy of endo- β -1,4-xylanase from an actinobacterium *Streptomyces olivaceus* (MSU3) in comparison with zinc oxide pretreated sugarcane bagasse pulp using Box–Behnken design. *Smart Science*, 8 (2): 39-49. (IF – 4.1)
- **Muthusamy Sanjivkumar**, Manohar Navin Chandran, Arumugampillai Manimehalai Suganya, Grasian Immanuel (2020). Investigation on bio-properties and in-vivo antioxidant potential of carrageenans against alloxan induced oxidative stress in Wistar albino rats. *International Journal of Biological Macromolecules*. 151: 650–662 (IF – 8.2).
- Silambarasan TamilSelvan, Balasubramani Govindasamy, **Sanjivkumar Muthusamy** and Dhandapani Ramamurthy, (2019). Exploration of green integrated approach for effluent treatment through mass culture and biofuel production from unicellular alga, *Acutodesmus obliquus* RDS01. *International Journal of Phytoremediation*, 21 (13): 1305-1322 (IF – 4.003).
- **Sanjivkumar, M.**, Silambarasan, T., Palavesam, A. and Immanuel, G. (2019). Bioconversion and bioethanol production from agro-residues through fermentation process using mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3). *Biofuels*, 10(2): 167-179 (IF: 2.731).
- **Sanjivkumar, M.**, Vaishnavi, R., Neelakannan, M., Kannan, D., Silambarasan, T. and Immanuel, G. (2019). Investigation on characterization and biomedical properties of silver nanoparticles synthesized by an actinobacterium *Streptomyces olivaceus* (MSU3). *Biocatalysis and Agricultural Biotechnology*, 17; 151-159. (IF – 4.0)
- **Muthusamy Sanjivkumar**, Tamilselvan Silambarasan, Ramasamy Balagurunathan, Grasian Immanuel, (2018). Biosynthesis, molecular modeling and statistical optimization of xylanase from a mangrove associated actinobacterium *Streptomyces variabilis* (MAB3) using Box-Behnken design with its bioconversion efficacy. *International Journal of Biological Macromolecules*, 118: 195–208 (IF – 8.2).
- **Muthusamy Sanjivkumar**, Ananthakumar Brindhashini, Murugan Deivakumari, Arunachalam Palavesam, Grasian Immanuel. (2018). Investigation on

Saccharification and Bioethanol Production from Pretreated Agro-Residues Using a Mangrove Associated Actinobacterium *Streptomyces variabilis* (MAB3). *Waste and Biomass Valorization*, 9: 969 -984. (IF – 3.2).

- **Muthusamy Sanjivkumar**, TamilSelvan Silambarasan, Arunachalam Palavesam and Grasian Immanuel. (2017). Biosynthesis, purification and characterization of β -1,4-xylanase from a novel mangrove associated actinobacterium *streptomyces olivaceus* (msu3) and its applications. *Protein Expression and Purification*, 130: 1-12 (IF-1.6).
- Suganya, A.M., **Sanjivkumar, M.**, Navin Chandran, M., Palavesam, A. and Immanuel, G. (2016). Pharmacological importance of sulphated polysaccharide carrageenan from red seaweed *Kappaphycus alvarezii* in comparison with commercial carrageenan *Biomedicine & Pharmacotherapy*, 84: 1300–1312 (IF – 7.5).
- **Sanjivkumar, M.**, Rameshbabu, D., Suganya, A.M., Silambarasan, T., Balagurunathan, R. and Immanuel, G. (2016). Investigation on pharmacological activities of secondary metabolite extracted from a mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3). *Biocatalysis and Agricultural Biotechnology*, 6: 82–90. (IF – 4.0)
- Grasian Immanuel, **Muthusamy Sanjivkumar**, Dhanabal Rameshbabu, (2017). Biobleaching property of β -1,4-xylanase from a novel mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) using pretreated rice straw pulp, *International Journal of Advances in Science Engineering and Technology*, 5(2): 54-59.
- **Muthusamy Sanjivkumar**, (2020). Production, purification and characterization of pectinase from an estuarine associated actinobacterium *Streptomyces olivaceus* (MSU3). *International Journal of Research and Analytical Reviews*, 7(2): 123-132.

National Publications

- Deivakumari M., **Sanjivkumar M.** and Immanuel G. (2020). Optimization and commercial production of biosurfactant from *Pseudomonas aeruginosa* (PAO1) using renewable resources. *Research Journal of Chemistry and Environment*, 24 (6): 34-49.
- **Sanjivkumar, M.**, Shanmugasundaram, T. and Jeyaraj, J. (2012). Production, partial purification and characterization of Penicillin-G-acylase from *Bacillus subtilis* (M2). *Journal of Pharmacy Research*, 5(12): 5274-5276.
- **Sanjivkumar, M.**, Priyadharshini, D., Shanmugasundaram, T. and Balagurunathan, R. (2013). Magnesite ore soil actinobacteria- a source for novel enzymes and antibiotics, *Indo American Journal of Pharmaceutical Research*, 3(4): 3401-3419.
- Pazhani Murugan, R., Radhakrishnan, M., Shanmugasundaram, T. **Sanjivkumar, M.**, and Balagurunathan, R. (2013). L-asparaginase and pectinase: Production and characterization of enzymes from extremophilic *Streptomyces* sp M32. *International Journal of Advance Pharmaceutical Research*, 4(4): 1669-1675.

Publications in Books (Book Chapters / Protocols)

- **Muthusamy, S.**, Alagarsamy, P., Sylvester, S.M.S., Kasilingam, N. (2024). Preparation of Postbiotics from *Saccharomyces* spp., In: Dharumadurai, D. (eds) Postbiotics. *Methods and Protocols in Food Science*. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-3421-9_8.
- Kasilingam, N., **Muthusamy, S.**, Sylvester, S.M.S., Alagarsamy, P. (2024). Preparation of Postbiotics from *Lactococcus* spp., In: Dharumadurai, D. (eds) Postbiotics. *Methods and Protocols in Food Science*. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-3421-9_7.
- Sylvester, S.M.S., **Muthusamy, S.**, Kasilingam, N., Alagarsamy, P. (2024). Mass Propagation of Lactic Acid Bacteria. In: Dharumadurai, D. (eds) Postbiotics. *Methods and Protocols in Food Science*. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-3421-9_5.
- Silambarasan TamilSelvan and **Sanjivkumar Muthusamy**. (2023), Nutritional Studies and Optimization of Biomass from Unicellular Microalgae *Haematococcus* sp. *Haematococcus Biochemistry, Biotechnology and Biomedical Applications*, Springer Nature (ISBN 978-981-99-2900-9), pp 13–31.
- **Muthusamy Sanjivkumar** & Tamil Selvan Silambarasan. (2023), Exploration on Green Synthesis of Nanoparticles from Plants and Microorganisms and Their Biological Applications. *Modern Nanotechnology*, Springer Nature (ISBN 978-3-031-31103-1), pp 149–173.
- **Sanjivkumar Muthusamy**, Nagajothi Kasilingam, Sayen Merlin Sophia Silvestar and Parameswari Alagarsamy (2022). Exploration of Rhizobium for its mass production and plant growth promoting properties. *Microbial Symbionts, Function and Molecular Interaction on Host*. Elsevier, Academic Press, (ISBN: 978-0-323-99334-0), pp. 385-396.
- **Muthusamy Sanjivkumar**, Tanmay Ghosh, Tamilselvan Silambarasan and Sylvester Sayen Merlin Sophia (2022). Influences of microorganisms based biosurfactant in bioremediation process: An ecofriendly approach, *Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation*, Springer Nature (ISBN 978-3-031-08830-8), pp 111-131.
- TamilSelvan Silambarasan, Manickam Dakshinamoorthi Balakumaran, Subramaniyam Suresh, Velramar Balasubramanian, **Muthusamy Sanjivkumar**, Balasundaram Sendikumar and Ramamurthy Dhandapani, (2022). Bioremediation of tannery effluent contaminated Soil: A green approach. *Advances in Bioremediation and Phytoremediation for Sustainable Soil Management*, Springer Nature. (ISBN 978-3-030-89984-4), pp. 283-300.

- **Muthusamy Sanjivkumar**, Kasilingam Nagajothi and Alagarsamy Parameswari (2021). Biodegradation and Bioremediation Process. 1st edition, *Ecology Research*, Bhumi Publications (ISBN: 978-93-88901-21-5), India. Vol III, PP.49-59.
- A. Parameswari, **M. Sanjivkumar**, K. Nagajothi (2021) Bioactive Metabolites from Microorganisms and Its Applications: A Review, 1st edition, Research and Development in Pharmaceutical Science, Bhumi Publications (ISBN: 978-81-953600-6-2), India. Vol II, PP.69-82.
- S. Sayen Merlin Sophia, M. Muthu Selvi, **M. SanjivKumar**, A. Parameswari and K. Nagajothi (2021). Disease Resistance in Plants and Its Future Perspectives. Agricultural Research and Reviews, Bhumi Publications (ISBN: 978-93-91768-12-6) Vol II, pp. 127-140

Publications in Proceedings

- **Sanjivkumar, M.**, Vaishnavi, R. and Vijayalakshmi, K. (2018). Biobleaching property of xylanase from a novel marine associated actinobacterium *Streptomyces variabilis* (MAB3) using pretreated rice straw pulp, *Proceedings of National Seminar on Biopolymer* (NSBP-18), held at Sadakathullah Appa College (Autonomous), Tirunelveli on 19th September 2018, pp 195 – 200.
- **Sanjivkumar, M.**, Ramesh Babu, D. and Immanuel, G. (2017). Biobleaching property of β -1,4-xylanase from a novel mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) using pretreated rice straw pulp. *Proceedings of the International Conference on The IRES Science, Technology and Management* (ICSTM) held at Doha, Qatar during 25 and 26th February 2017.
- Deviakumari, M. Vibin, A., **Sanjivkumar, M.**, Dharani Balan, P. and Immanuel, G. (2016). Antimicrobial activity of various solvent based extracts of medicinal herb *Phyllanthus niruri* against shrimp *Vibrio* pathogens, *Proceedings of National Seminar on Marine Resources* (NSMR-16), held at MDT Hindhu College, Tirunelveli on 3rd and 4th March 2016, pp 195 – 200.

Served as Resource Person

- Acted as a resource person (guest lecture) on “**Investigation on Biosynthesis and Characterization of Phytonanomedicines and its Applications**” organized by the Dept. of Botany, at G. Venkataswamy Naidu College (Govt. Aided), Kovilpatti on 28th July 2023.
- Acted as a resource person in the Skill Developed Programme (guest lecture) on “**Phylogenetic Tree and its Application**” organized by the Dept. of Bioscience, at Rathinam College of Arts & Science, Eachanari, Coimbatore on 30th November 2022.
- Acted as a resource person in the guest lecture on “**How to write an effective research article: A guidance to Lifescience students**” organized by the PG and

Research Department of Microbiology, at Kamaraj College, Thoothukudi District on 4th April 2022.

- Acted as a resource person in the guest lecture on “**Bioactive Natural Products as Remedy**” organized by the Department of Microbiology and Biotechnology, at Sri Moogambigai College of Arts & Science (Women), Palacode, Dharmapuri District on 25th September 2021.

Peer Reviewer in Journals

- Reviewer in Journal of CO₂ Utilization, Elsevier publishing group
- Reviewer in Process Biochemistry, Elsevier publishing group
- Reviewer in Scientific Report, Springer publication group.
- Reviewer in World Journal of Microbiology and Biotechnology, Springer publication group.
- Reviewer in Journal of Biomolecular Structure and Dynamics, Taylor and Francis publishing group
- Reviewer in Natural Product Research, Taylor and Francis publishing group
- Reviewer in Agronomy, MDPI publishing group
- Reviewer in Water, MDPI publishing group
- Reviewer in Sustainability, MDPI publishing group
- Reviewer in International Journal of Creative Research Thoughts
- Reviewer in Sustainability, Agri Food and Environmental Research

Served as Editor in Journals

- Editor in Hindawi Journal (Journal of Renewable Energy)

Microbial Identification – GenBank Accession Number

- **Sanjivkumar, M.** (2014). *Streptomyces olivaceus* (MSU3) – **KM212958.**
- **Sanjivkumar, M.** and Immanuel, G. (2014). *Streptomyces variabilis* (MSA31) – **KM435070.**

Computer Knowledge

MS-OFFICE

REFERENCES

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PERSONAL PROFILE

Father's Name	:	A. Muthusamy
Date of Birth	:	26.10.1987
Gender	:	Male
Nationality	:	Indian
Marital Status	:	Married

DECLARATION

I hereby declare that the above statement is true to the best of my knowledge and belief.

Place : Kovilpatti.

Yours sincerely

Date : 10.10.2023

(M. SANJIVKUMAR)