



# DR MS MOHAMED JAABIR

Associate Professor & Head  
Biotechnology-Microbiology-Bioinformatics

**NATIONAL COLLEGE (AUTONOMOUS)**  
TIRUCHIRAPALLI - INDIA



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## PROFILE SUMMARY

An accomplished teacher and a mentor with 24+ years in academia and research. His expertise encompasses the dynamic realms of Biochemistry and Biotechnology, where he imparts knowledge and inspires budding scholars to excel. With a profound dedication to advancing scientific frontiers, his research endeavors focus on elucidating the intricate mechanisms of Cancer Biology and In vitro Toxicity.

## EDUCATION

<b>Bharathidasan University, Tiruchirapalli, India</b> <ul style="list-style-type: none"><li>PhD in Biochemistry</li></ul>	<i>2005 - 2010</i>
<b>Periyar University, Salem, India</b> <ul style="list-style-type: none"><li>MPhil in Biotechnology</li></ul>	<i>2005 - 2007</i>
<b>UGC - CSIR - NET</b> <ul style="list-style-type: none"><li>National Eligibility Test (NET) for lectureship</li></ul>	<i>2003</i>
<b>MIET Arts College, Tiruchirapalli, India</b> <ul style="list-style-type: none"><li>MSc in Biochemistry</li></ul>	<i>1996 - 1998</i>
<b>The New College, Chennai, India</b> <ul style="list-style-type: none"><li>BSc in Zoology</li></ul>	<i>1993 - 1996</i>

## PROFESSIONAL EXPERIENCE

<b>Associate Professor &amp; Head, Biotech.Micro.Biofo - NCT, Tiruchirapalli</b> <ul style="list-style-type: none"><li>Coordinate and implement effective teaching, research, and administrative strategies that align with the department's mission and objectives.</li><li>Oversee curriculum development, faculty recruitment, and resource allocation to ensure excellence in biotechnology, microbiology, and bioinformatics education.</li><li>Foster interdisciplinary collaboration and community engagement initiatives to promote the department's research and educational programs.</li><li>Evaluate and enhance departmental performance through ongoing assessment and strategic planning.</li></ul>	<i>2011 - PRESENT</i>
<b>Assistant Professor, Biotechnology, JMC, Tiruchirapalli</b>	<i>2004 - 2011</i>
<b>Assistant Professor, Biotechnology, BHC, Tiruchirapalli</b>	<i>2002 - 2004</i>
<b>Assistant Professor, Biochemistry, Vysya College, Salem</b>	<i>2000 - 2002</i>
<b>Assistant Professor, Biochemistry, MIET Arts College, Trichy</b>	<i>1998 - 1999</i>

## ADMINISTRATIVE EXPERIENCE

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Co-ordinator, DBT - PG Teaching Scheme to offer MSc Biotechnology	2020 - PRESENT
Co-ordinator, DBT - STAR College Scheme	2019 - 2022
Co-ordinator, UGC-Innovative Program	2013 - 2018
Co-ordinator, DBT - PG Teaching Scheme to offer MSc Biotechnology	2020 - PRESENT
Co-ordinator, Study In India - MHRD	2017 - PRESENT
Co-ordinator, NIRF	2015 - 2019
Co-ordinator, Internal Quality Assurance Cell (IQAC)	2014 - 2020
Co-ordinator, Clinical Research Training Program with CCRO	2011 - 2016

## GRANTS RECEIVED

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<b>DBT - India   PG-Teaching scheme   Rs. 110 lakhs</b>	2020 - PRESENT
<ul style="list-style-type: none"><li>To offer MSc Biotechnology program with a grant support of Rs. 110 lakhs towards students fellowships, recurring expenditures and dissertation</li></ul>	
<b>DBT - India   STAR College Scheme   Rs. 105 lakhs</b>	2019 - 2022
<ul style="list-style-type: none"><li>to improve the infrastructure and teaching learning process in the UG programs (Biotechnology, Physics, Chemistry, Botany and Zoology).</li><li>Grant of Rs. 105 lakhs sanctioned towards equipment and other non-recurring expenses.</li></ul>	
<b>SERB-India, Core Research Grant   Principal Investigator   Rs. 34.08 lakhs</b>	2019 - 2022
<ul style="list-style-type: none"><li>A grant of Rs. 34.08 lakhs sanctioned to study on the Anti-cancer Prospects of the Coelomic Fluid of Earthworm.</li></ul>	
<b>DST-India-WMT Level - 1   Co- Investigator   Rs. 10.3 lakhs</b>	2018 - 2019
<ul style="list-style-type: none"><li>Project with a financial aid of Rs. 10.3 Lakhs, to test a low-cost sustainable technology over conventional systems with potential for decentralization in the textile valley of Tamil Nadu. This aims at recovering the textile industry polluted soil with the help of microbes and earthworms.</li></ul>	
<b>DST-India-WTI   Co- Investigator   Rs. 25.17 lakhs</b>	2017 - 2019
<ul style="list-style-type: none"><li>Extraction of Water from Air at Zero Energy Expenditure to Mitigate Water and Energy Crisis in India: A Socio-technical perspective to develop 'ZERO EXTRACT CORPORATES – DST-Water Technology Initiative (WTI)</li></ul>	
<b>UGC - Community College Scheme   Principal Investigator   Rs. 35.2 lakhs</b>	2015 - 2016
<ul style="list-style-type: none"><li>To offer Certificate, Diploma and Advanced Diploma training programs in Welding and Fabrication under financial assistance from UGC. The grant included recurring and non-recurring expenses</li></ul>	
<b>UGC - India   Major Research Project   Rs. 15.86 lakhs</b>	2015 - 2018
<ul style="list-style-type: none"><li>To launch a Post MSc Diploma in Bioprocess Technology offering training in the areas of reactor operations, kinetics, reactor engineering and downstream processing</li></ul>	
<b>UGC - India   Innovative Program   Rs. 60 lakhs + Salary benefits for 3 faculty</b>	2013 - 2018
<ul style="list-style-type: none"><li>To launch a Post MSc Diploma in Bioprocess Technology offering training in the areas of reactor operations, kinetics, reactor engineering and downstream processing</li></ul>	
<b>TNSCST - India   Co-Investigator   Rs. 2.69 lakhs</b>	2013 - 2018
<ul style="list-style-type: none"><li>Towards project on the bioremediation of textile effluent polluted soil of Tirupur region through vermistabilization and subsequent evaluation on crop plants</li></ul>	

## DOCTORATES PRODUCED

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- Dr. A. Mansoor Hussain** 2013-2018
- Understanding the mechanism of entry of proteins into mitochondria and their turnover
- Dr. Mohd. Haseeb** 2015-2021
- Structural characterization and evaluation of cytotoxic and antibacterial activities of silver nanoparticles synthesized using MDR bacteria: *S. aureus* and *E. coli*
- Dr. Alkesh Hada** 2013-2021
- Metabolic engineering of phytyc acid pathway in soybean

## RESEARCH COLLABORATIONS

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- Dr. M. Murali, Professor, Chemistry, NCT** 2021 - 2023
- Synthesis, structure, characterization and biological evaluation of 3-substituted 1-pyridin-2-ylimidazo[1,5-a]pyridine-based copper(I)-phosphine complexes for anticancer drug screening
  - Characterization of [Ru (bpy) 2 (diamine)] 2+ complexes and their DNA binding and cleavage, BSA interaction, cytotoxic, and anticancer mechanistic properties
  - Copper (ii) complexes of the CuN 4 S core: selective cytotoxicity to cancerous cells, ROS generation and induction of apoptosis
- Dr. Stephen Arumainathan, Professor, Dept. of Nuclear Physics, University of Madras** 2020 - 2021
- Dopamine-conjugated CuS/chitosan nanocomposite for targeted photothermal drug delivery: In vitro cytotoxicity study to establish bio-compatibility
- Dr. Marappan Velusamy, Professor, Chemistry, North-Eastern Hill University, Shillong** 2019 - 2020
- Synthesis and Surface Passivation of CuInS<sub>2</sub>/MnS/ZnS Core-Multishell Nanocrystals, Their Optical, Structural, and Morphological Characterization, and Their Bioimaging Applications
  - Synthesis, structure, characterization and biological evaluation of 3-substituted 1-pyridin-2-ylimidazo[1,5-a]pyridine-based copper(I)-phosphine complexes for anticancer drug screening
- Dr. G. Archunan, Professor, Animal Science, Bharathidasan University, Tiruchirapalli** 2018 - 2019
- Anticancer potential of zinc oxide nanoparticles against cervical carcinoma cells synthesized via biogenic route using aqueous extract of *Gracilaria edulis*
- Dr. V. Renuga, Professor, Chemistry, NCT, Tiruchirapalli** 2017 - 2018
- Synthesis and Surface Passivation of CuInS<sub>2</sub>/MnS/ZnS Core-Multishell Nanocrystals, Their Optical, Structural, and Morphological Characterization, and Their Bioimaging Applications

## EXPERTISE

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- Proficient in analytical techniques in biochemistry, including chromatography, spectroscopy, and electrophoresis, for accurate analysis and quantification of biomolecules.
- Extensive experience in enzyme kinetics studies: Skilled in the isolation and purification of enzymes
- Proficient in animal cell culture techniques, including cell line maintenance Experienced in conducting toxicity assays and apoptotic assays using cell-based assays and molecular techniques, to assess the safety and efficacy of pharmaceuticals and environmental agents.
- Knowledgeable in bioreactor operations, including batch, fed-batch, and continuous cultures and proficient in downstream processing techniques such as filtration, chromatography, and ultrafiltration/diafiltration, for the purification and recovery of bioproducts from fermentation broth.

## RESOURCE PERSON

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- Conducted 7+ workshops for School Biology Teachers focusing on modern areas of Biotechnology aligned with the revised curriculum of the Tamil Nadu Board.
- Acted as a resource person in 42+ workshops dedicated to Animal Cell Culture Techniques, providing expertise and guidance in laboratory practices.
- organized 45+ workshops as a resource person on Fermentor Operations, imparting knowledge on bioreactor systems and operations.
- Offered consultancy services in establishing Cell Culture Facilities, conducting In-vitro Toxicity Studies, and implementing Stem Cell Culture Techniques, contributing to advancements in biomedical research and industry practices.

## AWARDS & HONORS

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- Qualified CSIR – UGC NET held on 28 December 2003. National Eligibility Test (NET) for Lectureship conducted by Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC), Govt. of India.
- Received University First Rank (Gold Medal) in M.Sc. Biochemistry in 1998
- Srinivasarangan scholarship awarded for securing FIRST rank among the wards of the staff of Madras Research Centre of Central Marine Fisheries Research Institute (CMFRI), in the XII Public Examination held in March 1992 conducted by Central Board of Secondary Education (CBSE).

## FELLOWSHIP

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### IBRO-APRC Fellowship

2009 - 2010

- Recipient of IBRO (International Brain Research Organization-Asia-Pacific Regional Committee) fellowship for attending the IBRO-APRC Associate School of Neuroscience held in Bangkok in Jan 27-31, 2010 and to present my research paper titled "Does Maternal Dietary Micronutrient Deficiency Modulate Free Radicals - Scavenging Enzyme levels and Per se alters the offspring Behaviour?" in the 14th TNS Conference, held during February, 1-2, 2010 at Bangkok, Thailand.
- Recipient of IBRO (International Brain Research Organization Asia-Pacific Regional Committee) fellowship for attending the School of Neuroscience in Kolkata, India held between 29th December and 8th January, 2009, organized by the Indian Institute of Chemical Biology, Kolkata to undergo training in Frontier areas of Brain Research and also to present my Research activities.

## PATENTS

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### PATENT APPLICATION NUMBER 860/CHE/2010 A

2010

- Indian Applicant Files Patent Application for Cold Facile Method - a Novel Method for Collecting Coelomic Fluid from Earthworm Belonging to the Phylum Annelida. The patent file and publication number is 860/CHE/2010 A. The international classification number is A01K.

## CONSULTANCY SERVICES EXTENDED

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- To hospitals seeking assistance in establishing Stem Cell Culture laboratories, offering technological support in the initiation of experimental procedures for stem cell isolation, enrichment, and characterization.
- In the production of bio-fertilizers (VAM, Azospirillum, Pseudomonas spp., etc.) utilizing automated Fermentor (Biotron, Spectrochem India, Hyderabad) as a consultancy service.

## PUBLICATIONS

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- Malakar, Kakoli and Selvakumaran, Balasubramaniam and Murali, Mariappan and Arul Prakash, Pitchan and Sangeetha, Somasundaram and Sohtun, Winaki P. and **Jaabir, Mohamed Sultan Mohamed** and Velusamy, Marappan (2023). Copper (II) complexes of the CuN4S core: selective cytotoxicity to cancerous cells, ROS generation and induction of apoptosis. *New Journal of Chemistry*, 47 (43), 20070-20087. DOI: 10.1039/D2NJ06170H.
- K.B. Gurudhathan, Jeelani Peerzada, Arul Prakesh, **M.S. Mohamed Jaabir**. (2023). Exploring the anti-cancer potential of methanolic extract from *Simarouba glauca*: Induction of apoptosis and growth inhibition in lung cancer cells, *Oral Oncology Reports*, Volume 8, 100104, <https://doi.org/10.1016/j.oor.2023.100104>.
- Peerzada, J.G., Ojha, N., **Jaabir, M.S.M.** et al. (2023). Advancements in eco-friendly food packaging through nanocomposites: a review. *Polym. Bull.* <https://doi.org/10.1007/s00289-023-05002-1>.
- Mariappan Murali, Jegaratchagan Latha, Pitchan Arul Prakash, Somasundaram Sangeetha, Balasubramaniam Selvakumaran, Mohamed Sultan Mohamed Jaabir (2022). Characterization of [Ru (bpy) 2 (diamine)] 2+ complexes and their DNA binding and cleavage, BSA interaction, cytotoxic, and anticancer mechanistic properties. *Polyhedron*, Vol. 223, 115925.
- Sheril Ann Mathew, P Arul Prakash, **MS Mohamed Jaabir**, S Dhanavel, R Manikandan, A Stephen (2021). Dopamine-conjugated CuS/chitosan nanocomposite for targeted photothermal drug delivery: In vitro cytotoxicity study to establish bio-compatibility. *Journal of Drug Delivery Science and Technology*; 61, 102193.
- Alkesh Hada, **MS Mohamed Jaabir**, Nisha Singh, Chunoti Changwal, Anil Kumar (2021). Functional genomics approaches for combating the effect of abiotic stresses. *Stress Tolerance in Horticultural Crops*. 119-135.
- Puja Patel, Vinita Manimaran Nadar, Devan Umapathy, Selvambigai Manivannan, Rajiu Venkatesan, Velanganni Antony Joseph Arokiyam, Srinivasan Pappu, Pitchan Arul Prakash, **Mohamed Sultan Mohamed Jaabir**, Balazs Gulya's, Parasuraman Padmanabhan, \* Subramanian Tamil Selvan,\* and Ponnuchamy Kumar (2020). Doxorubicin-Conjugated Platinum Theranostic Nanoparticles Induce Apoptosis via Inhibition of Cell Survival (PI3K/AKT) Signaling Pathway in Human Breast Cancer Cells. *ACS Applied Nano Materials* <https://dx.doi.org/10.1021/acsanm.0c02521>.
- Pathaw L, Khamrang T, Selvakumaran B, Murali M, Arul Prakash P, Mohamed Jaabir MS, Velusamy M, (2020). Synthesis, structure, characterization and biological evaluation of 3- substituted 1-pyridin-2-ylimidazo [1,5-a] pyridine based copper(I)-phosphine complexes for anticancer drug screening. *Appl Organomet Chem.* 2020; e6025. <https://doi.org/10.1002/aoc.6025>. (Impact Factor: 3.581)
- Mohamed Asik R., Gowdhami B., Mohamed Jaabir M.S., Archunan G., Suganthya N., (2019). Anticancer potential of zinc oxide nanoparticles against cervical carcinoma cells synthesized via biogenic route using aqueous extract of *Gracilaria edulis*, *Materials Science & Engineering C* 103, 109840. (Impact Factor: 5.88)

- Mohd Haseeb, M.S. Khan, Abu baker, Mohamed Imran M, **Mohamed Jaabir M.S.** (2020). Cytotoxic and Antibacterial Activity Evaluation of MDR Bacteria mediated Synthesized Silver nanoparticles. *Biosc. Biotech. Res. Comm.* 13(1), 139-145.
- Mohd Haseeb, Mohd Sajid Khan, Abu baker, Imran Khan, Iram Wahid, **M.S. Mohamed Jaabir** (2019). Anticancer and Antibacterial Potential of MDR S.aureus Mediated Synthesized Silver Nanoparticles, *Biosci. Biotech. Res. Comm.* 12(1): 26-35.
- Alkesh Hada, Veda Krishnan, **M. S. Mohamed Jaabir**, Archana Kumari, Monica Jolly, Shelly Praveen, Archana Sachdev (2018). Improved Agrobacterium tumefaciens - mediated transformation of soybean [Glycine max (L.) Merr.] following optimization of culture conditions and mechanical techniques. *In Vitro Cellular & Developmental Biology – Plant.* 54(6), pp 672– 688. (Impact Factor: 1.814)
- V. Renuga, C. Neela Mohan, **M.S. Mohamed Jaabir**, Pitchan Arul Prakash, and M. Navaneethan (2018). Synthesis and Surface Passivation of CuInS<sub>2</sub>/MnS/ZnS Core-Multishell Nanocrystals, their Optical, Structural and Morphological Characterization, and their Bioimaging Applications. *Industrial and Engineering Chemistry Research. Ind. Eng. Chem. Res.*, 2018, 57 (46), pp 15703–15721. (Impact Factor: 3.71)
- Sundararaj Sankaramanivel, Muhammad Yasar Molgakar, Pitchan Arul Prakash, **M.S. Mohamed Jaabir**, Subramanian Gurunathan (2017). Stem Cells and Metallothionein - A Review, *Int J Cur Res Rev*, Vol 9(13), 54-61.
- Mansoor Hussain, Vinoth Madhavan, **Mohamed Jaabir M.S.**, (2017). Hypoxia Induces Mitochondrial Swelling and Invasive Potential of Cultured Cells. *Biomedical & Pharmacology Journal* Vol. 10(1), 367-372.
- P. Jaikumar, T. Balakrishnan, **M. S. Mohamed Jaabir**, S. Sakthivel (2017). Investigations on the growth, Structural, Optical, Mechanical and Cytotoxicity Properties of a Semiorganic Single Crystal: Cytosinium Nitrate, *Int J Cur Res Rev.* 9(4), 8-14.
- **Mohamed Jaabir M.S.**, Ramu S., Shabeer N., Shantkriti S. and Senthil Kumar S. (2014). Preliminary evaluation of the larvicidal efficacy of coelomic fluid of Eudrilus eugeniae on Anopheles mosquito, *International Journal of Pharmaceutical Science Invention*, Vol. 3(8) 20-27.
- S. Senthil Kumar, T. Muruganandham and M.S. Mohamed Jaabir (2014). Decolourization of Azo dyes in a two-stage process using novel isolate and advanced oxidation with Hydrogen peroxide/HRP system. *Int. J. Curr. Microbiol. App. Sci* (2014) 3(1): 514-522.
- Senthil Kumar S., Mohamed Jaabir (2013). Biological treatment of textile wastewater and its re-use in irrigation: Encouraging water efficiency and sustainable development. *Journal of Water Resources and Ocean Science* 2013; 2(5): 133-140.
- S. Senthil Kumar, T. Muruganandham, V. Kathiravan, R. Ravikumar and M.S. Mohamed Jaabir. (2013). Rapid decolourization of Disperse Red F3B by Enterococcus faecalis and its Phytotoxic Evaluation. *Int. J. Curr. Microbiol. App. Sci* (2013) 2(10): 52-67

- Kirubakaran, S.Venkataramana, **M. S. Mohamed Jaabir**. (2013). Effect of Ethrel and Glyphosate on the ripening of Sugar Cane. International Journal of ChemTech Research. Vol.5, No.4, pp 1927-1938.
- Anand K.V., **Mohamed Jaabir, M.S.**, Philip A. Thomas., Geraldine, P. (2012). Protective role of chrysin against oxidative stress in D-galactose induced aging in an experimental rat model" Geriatrics and Gerontology International, 12(4) 741-750.
- **Mohamed Jaabir M.S.**, Shamsheerali L., Yasar MD.M., Senthil Kumar S. (2011). Evaluation of the cell-free coelomic fluid of the earthworm eudrilus eugeniae to induce apoptosis in SiHa cell line, Journal of Pharmacy Research. 4(10), 3417- 3420.
- **Mohamed Jaabir, M.S.**, Naseeruddin, S., Shabeer, N., and Senthil Kumar, S. (2011). Antimicrobial activity of the ethanolic extract of the leaves of *Cissus quadrangularis* and its phytochemical analysis by GC-MS. Journal of Theoretical and Experimental Biology, 7: 99- 108. **Mohamed Jaabir, M.S.**, Rosario, J.F., Senthil Kumar, S., and Geraldine, P. (2010). Maternal micronutrient restriction alters skeletal muscle mitochondrial DNA damage per se predisposes the offspring to insulin resistance in later life. Biosciences, Biotechnology Research Asia, 7: 189-198.
- Senthil Kumar, S., Soban Akram, S., Fareed Ahmed, T.S., and **Mohamed Jaabir, M.S.** (2010). Phytochemical analysis and antimicrobial activity of the ethanolic extract of *Acorus calamus* rhizome. Oriental Journal of Chemistry, 26: 223-227.
- Senthil Kumar, S., Shariq afsar, T., Mohamed Yasar, M., Mansoor Hussain, A., and Mohamed Jaabir M.S. (2010). A Study on the Fungal antagonism by chitinolytic bacterial isolates from prawn culture farms of Ramanathapuram District, Tamil Nadu. Journal of Pure and Applied Microbiology, 4: 429-432.
- Veeramani, A., Senthil Kumar, S., **Mohamed Jaabir, M. S.**, Sivagandhi, C., Marimuthu, R., Ravikumar, R. (2010). *Eudrilus eugeniae* as a putative candidate for Textile industry effluent polluted soil bioremediation. Current World Environment 5: 131-136.
- **Mohamed Jaabir, M.S.**, Vigneshwaran, R., Md. Ehtisham Ul Hassan, T., Senthil Kumar, S. (2010). Study on the antimicrobial activity of ethanolic extract of the fruits of *Solanum torvum* and its phytochemical analysis by GC-MS. Biomedical and Pharmacology Journal, 2: 117-121.
- Mohamed Jaabir, M.S., Rosario, J.F., Senthil Kumar, S., Geraldine, P. (2009). Maternal dietary micronutrient restriction during preconception, conception and post natal life predispose the offspring to insulin resistance and hypertension in adult life. Biomedical and Pharmacology Journal, 2: 239-248.
- Mohamed Jaabir, M.S., Mansoor Hussain, A., Shariq Afsar, T., Senthil Kumar, S. (2009). Study on the apoptotic properties of methanolic extracts of *Peltophorum pterocarpum*, *Cassia auriculata*, *Cassia alata* and *Lamprachaenium microcephalum*. Biomedical & Pharmacology Journal, 2: 381- 385.
- Senthil Kumar, S., Mohamed Jaabir, M.S., Krishna Moorthy, S., Manikandan, R., Ravikumar, R. (2007). Decolorization of Textile Dyes by soil isolates from a textile industry. JARJ 4: 20- 24.

## BOOK CHAPTERS

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- Vibhute, P., Jaabir, M., Sivakamavalli, J. (2023). Applications of Nanoparticles in Aquaculture. In: Kirthi, A.V., Loganathan, K., Karunasagar, I. (eds) Nanotechnological Approaches to the Advancement of Innovations in Aquaculture. Nanotechnology in the Life Sciences. Springer, Cham. Mohamed Jaabir, M.S., Rosario, J.F., Senthil Kumar, S., Geraldine, P. (2009). Maternal dietary micronutrient restriction during preconception, conception and post natal life predispose the offspring to insulin resistance and hypertension in adult life. Biomedical and Pharmacology Journal, 2: 239-248.
- Mohamed Jaabir, M.S., Mansoor Hussain, A., Shariq Afsar, T., Senthil Kumar, S. (2009). Study on the apoptotic properties of methanolic extracts of *Peltophorum pterocarpum*, *Cassia auriculata*, *Cassia alata* and *Lamprachaenium microcephalum*. Biomedical & Pharmacology Journal, 2: 381- 385.
- Senthil Kumar, S., Mohamed Jaabir, M.S., Krishna Moorthy, S., Manikandan, R., Ravikumar, R. (2007). Decolorization of Textile Dyes by soil isolates from a textile industry. JARJ 4: 20- 24.
- Chellapandian, H., Aadham, M.S., Jaabir, M., Jeyachandran, S. (2023). Alarming Viral Pathogens in Shrimp Industry and Nanotechnology. In: Kirthi, A.V., Loganathan, K., Karunasagar, I. (eds) Nanotechnological Approaches to the Advancement of Innovations in Aquaculture. Nanotechnology in the Life Sciences. Springer, Cham. [https://doi.org/10.1007/978-3-031-15519-2\\_7](https://doi.org/10.1007/978-3-031-15519-2_7)
- Hada, A., Jaabir, M.S.M., Velmurugan, S., Changwal, C., Kumar, A. (2022). Molecular Genetics of Biotic Stress Management for Crop Improvement. In: Kumar, A. (eds) Microbial Biocontrol: Sustainable Agriculture and Phytopathogen Management. Springer, Cham. [https://doi.org/10.1007/978-3-030-87512-1\\_14](https://doi.org/10.1007/978-3-030-87512-1_14).
- Ahmad, I., Pusam, Y., Sivakamavalli, J., James, A., Saravanan, C., Jaabir, M. (2022). Molecular Cloning and CRISPR Techniques in Fish Lectin Research. In: Elumalai, P., Vaseeharan, B., Lakshmi, S. (eds) Aquatic Lectins. Springer, Singapore. [https://doi.org/10.1007/978-981-19-0432-5\\_17](https://doi.org/10.1007/978-981-19-0432-5_17).
- Akshaya Radhakrishnan, Kiyun Park, Ihn-Sil Kwak, Mohamed Jaabir, Jeyachandran Sivakamavalli . Classification of lectins (2022). Lectins: Innate immune defense and Therapeutics. Springer Singapore.
- Akshaya Radhakrishnan, Mohamed Jaabir, Sivakamavalli Jeyachandran, K Thrini, A Vijaya Anand, A Murugesan. Nanocelluloses for Removal of Organic Dyes from Wastewater (2022). Handbook of Nanocelluloses: Classification, Properties, Fabrication, and Emerging Applications. Springer Publications.
- Pusam, Y., Jaabir, M., Jeyachandran, S. (2021). Molecular Basis of Lectin–Carbohydrate Interaction. In: Elumalai, P., Lakshmi, S. (eds) Lectins. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7462-4\\_4](https://doi.org/10.1007/978-981-16-7462-4_4)
- Prachi Vibhute, M.S., Jaabir, M., Sangeetha Bharath, S., Sivakamavalli, J. (2021). Overview of Lectins. In: Elumalai, P., Lakshmi, S. (eds) Lectins. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7462-4\\_1](https://doi.org/10.1007/978-981-16-7462-4_1).



- Prachi Vibhute, N. Pushpa, R.Manikandan, Periyannan Velu, Mohamed Jaabir, Sivakamavalli Jeyachandran\*. Advances of Nanocellulose in Biomedical Applications. (2021). Handbook of Nanocelluloses. Springer Publications.
- PRS Yoganathan, K. Tharini, A.Vijayanand, A. Murugaesan, Mohamed Jaabir, Sivakamavalli Jeyachandran\*. Nanocellulose Toxicological and Environmental Impacts. (2022). Handbook of Nanocelluloses. Springer Publications.
- Akshaya R, Mohamed Jaabir, Sivakamavalli Jeyachandran\*. Nanocellulose for Removal of Dyes and Wastewater. (2021). Handbook of Nanocelluloses. Springer Publications.
- Senthil Kumar S, Venkatesan S, Balaji TS, Yuvraj A and Mohamed Jaabir MS. (2010). Decolorization of Reactive Blue using a novel isolate – Bacillus firmus SK20. Current Scenario in Microbial Biotechnology, 349-355.

## AUTHOR METRICS

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Google Scholar : (<https://scholar.google.co.in/citations?hl=en&user=gejTEC8AAAAJ>)

## PASSPORT DETAILS

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- Date of Birth & Age : 29 January 1975; 49 Years
- Marital status : Married
- Children : Blessed with two children (Son & Daughter)
- Passport : B6272498
- Place of Issue : Trichy, India
- Date of Issue : 12/12/2023
- Date of Expiry : 11/12/2033
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## REFERENCES

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