

BOOKS AND PUBLICATIONS

Publications in Journals

- **Kalpana, V.N.** and Rajeswari, V.D. 'Production of xylanase from various lignocellulosic waste materials by *Streptomyces* sp. and its potential role in deinking of newsprint', Asian Journal of Biochemistry, ISSN 2582-3698, September 2015, Vol. 10, Issue 5, pp 222-229.
- Roopan, S.M., Devi Rajeswari, V., **Kalpana, V.N.** and Elango, G. 'Biotechnology and pharmacological evaluation of Indian vegetable crop *Lagenaria siceraria*: An overview, Applied Microbiology and Biotechnology, ISSN 0175-7598, February-2016, Vol.100, Issue 3, pp 1153-1162 (Impact Factor: 3.6720)
- Kashif, M.D., Kumar, V., **Kalpana, V.N.** and Devi Rajeswari, V. 'Phylogenetic diversity and biological activity of actinomycetes isolated from Gulf of Mannar, Tamil Nadu, India', Der Pharmacia Lettre, ISSN- 0975-5071, 2016, Vol 8, Issue 1, pp. 16-24.
- **Kalpana, V.N.** and Rajeswari, V.D, 'Phytochemical and Pharmacological investigation of an indigenous medicinal plant *Leucas aspera*'. International Journal of Pharm Tech Research, ISSN - 2455-9563, 2016, Vol 9, Issue 8, pp. 399-407.
- **Kalpana, V.N.**, Prabhu, D.S., Vinodhini, S. and Devirajeswari, V, 'Biomedical waste and its management'. Journal of Chemical and Pharmaceutical Research, ISSN - 0975-7384, 2016, Vol 8, Issue 4, pp. 670-676.
- **Kalpana, V.N.**, Sravani, N., Vigneshwari, T. and Rajeswari, V.D, ' An inexpensive substrate for the production of alkaline protease by *Bacillus* sp and its application studies of *Manihot esculenta* ', Der Pharmacia Lettre, ISSN- 0975-5071, 2016, Vol 8, Issue 1, pp. 220-232.
- **Kalpana, V.N.**, Chakraborty, P., Palanichamy, V. and Rajeswari, V.D, 'Synthesis and characterization of copper nanoparticles using *Tridax procumbens* and its application in degradation of bismarck brown, International Journal of Chem Tech Research, ISSN 0974-4290, 2016, Vol 9- Issue 9, pp. 498-507
- Rajakumar, G., Gomathi, T., Thiruvengadam, M., Rajeswari, V.D., **Kalpana, V.N.** and Chung, I.M, 'Evaluation of anti-cholinesterase, antibacterial and cytotoxic activities of green synthesized silver nanoparticles using from *Millettia pinnata* flower

extract'. Microbial pathogenesis, ISSN 0882-4010, February 2017, Vol 103, pp. 123-128 (Impact Factor – 2.332).

- **Kalpana, V.N.**, Patra, R.R. and Rajeswari, V.D . 'Green synthesis of zinc oxide nanoparticles using fresh stem of *Cissus quadrangularis* extract and its various *in vitro* studies', Asian Journal of Chemistry, ISSN 09707077, April 2017, Vol 29, Issue 6, pp. 1323-1327.
- Gandhi, A.D., Vizhi, D.K., Lavanya, K., **Kalpana, V.N.**, Rajeswari, V.D. and Babujanarthanam, R. 'In vitro anti-biofilm and anti-bacterial activity of *Sesbania grandiflora* extract against *Staphylococcus aureus*', Biochemistry and Biophysics reports, ISSN 2405-5808, October 2017, Vol 12, pp. 193-197.
- **Kalpana, V.N.**, Payel, C. and Rajeswari, V.D, '*Lagenaria siceraria* aided green synthesis of ZnO NPs: anti-dandruff, Anti-microbial and Anti-arthritis activity', Research Journal of Chemistry and Environment , ISSN 0972-0626, November 2017, Vol 21, Issue 11, pp.14-19.
- **Kalpana, V.N.**, Kataru, B.A.S., Sravani, N., Vigneshwari, T., Panneerselvam, A. and Rajeswari, V.D. 'Biosynthesis of zinc oxide nanoparticles using culture filtrates of *Aspergillus niger*: Antimicrobial textiles and dye degradation studies', Open Nano, ISSN 23529520 , June 2018, Vol 3, pp. 48-55.
- **Kalpana, V.N.** and Devi Rajeswari, V . 'A review on green synthesis, biomedical applications, and toxicity studies of ZnO NPs'. Bioinorganic chemistry and applications, ISSN 15653633, August 2018, Vol 2018, pp. 12 (Impact Factor-1.920)
- Nagalingam, M., **Kalpana, V.N.** and Panneerselvam, A. 'Biosynthesis, characterization, and evaluation of bioactivities of leaf extract-mediated biocompatible gold nanoparticles from *Alternanthera bettzickiana*', Biotechnology Reports, ISSN - 2215-017X, September 2018 , Vol 19, pp. 00268.
- **Kalpana, V.N.** and Rajeswari, V.D. 'Synthesis of palladium nanoparticles via a green route using *Lagenaria siceraria*: assessment of their innate antidandruff, insecticidal and degradation activities'. Materials Research Express, ISSN 2053-1591, September 2018, Vol 5, Issue 11, pp. 115406 (Impact Factor – 1.449)
- **Kalpana Vellore Nagarajan**, Devi Rajeswari. '*Lagenaria siceraria*–synthesised ZnO NPs—a valuable green route to control the malaria vector *Anopheles stephensi*', IET nanobiotechnology, ISSN 1751-875X, November 2019, Vol 13, Issue 2, pp 170-177 (Impact Factor:2.05)

- **Kalpana, V.N.**, Alarjani, K.M. and Rajeswari, V.D, ‘Enhancing malaria control using *Lagenaria siceraria* and its mediated zinc oxide nanoparticles against the vector *Anopheles stephensi* and its parasite *Plasmodium falciparum*’. Scientific Reports, ISSN 2045-2322, December 2020, Vol 10, Issue 1, 21568. (Impact Factor: 3.998)
- Vasantharaj, S., Sathiyavimal, S., Senthilkumar, P., **Kalpana, V.N.**, Rajalakshmi, G., Alsehli, M., Elfasakhany, A. and Pugazhendhi, A ‘Enhanced photocatalytic degradation of water pollutants using bio-green synthesis of zinc oxide nanoparticles (ZnO NPs)’, Journal of Environmental Chemical Engineering, ISSN 22133437, August 2021, Vol 9, Issue 4, pp105772 (Impact Factor: 4.3)
- Sumathi A., Aruna S., Kalpana V.N., Jenitta H. and Shabnam Shereen A. Phytochemical Profiling, Antioxidative and Antibacterial Efficacy of Leaf Aqueous Extract of *Cassia siamea*. International Journal of Zoological Investigations Vol. 11, No. 2, 1147-1156 (2025) (Impact factor: 0.9)
- Kalpana V.N., Harrshani K., Jayanarmadha D. and Alex Sebastian Raj. Production of Multifunctional Biodegradable Bioplastics from Sugarcane Bagasse Using *Bacillus* sp.: A Sustainable Solution for Active Food Packaging. International Journal of Zoological Investigations Vol. 12, No. 1, 382-399 (2026) (Impact factor: 0.9)
- Gayathri G.A., Remya Vallathol, Kalpana V.N., Vimal Priya S., Sijila Janaardhanan and Sivaagami S. Isolation and Molecular Characterization of Bacterial Pathogens Infecting Goldfish (*Carassius auratus*). International Journal of Zoological Investigations Vol. 12, No. 1, 350-357 (2026)
- Madhurima, P., Priyanka, S., Srinath, R., **Nithya, A** and Babu, S., 2. Unusual Occurrence of *Staphylococcus warneri* as Endophyte in Fresh Fruits along with Usual *Bacillus* spp., Journal of Food Safety, ISSN 1745-4565, January – 2013, Vol 33, pp 102-106.
- **Nithya, A.**, Gothandam, K. M. and Babu, S. Alternate ecology of human pathogenic bacteria in fruits and vegetables, Plant Pathology Journal, ISSN 1812-5387, January – 2014, Vol. 13, Issue 1, pp 1-7.
- **Nithya, A.** and Babu, S. Population dynamics of entero-pathogenic bacteria in pulp of salad vegetables, Plant Pathology Journal, ISSN 1812-5387, February - 2015, Vol. 14, Issue 2, pp 65-71.

- **Nithya, A.** and Babu, S. Prevalence of plant beneficial and human pathogenic bacteria isolated from salad vegetables in India, *BioMed Central Microbiology*, ISSN 14712180, March - 2017, Vol. 17, Issue 64, pp 1-16.
- **Sequence Published:** 113 Sequence published in Gene Bank-NCBI .
- **Manjula, R** et al. (2014), 'Isolation and characterization of keratinolytic bacteria from poultry waste dumping soil, *International Journal of Enhanced Research in Science, Technology and Engineering* 3(8), 238-243
- **Manjula, R.** and Padma, T. (2015), 'A review on *Melaleuca alternifolia* (Tea Tree) oil', *International Journal of Pharma and Bio Sciences* 6(4), 655-661
- **Manjula, R.** and Padma, T. (2015), 'Importance and applications of cedar oil, *Research Journal of Pharmacy and Technology* 8(10), 1714-1718
- **Manjula, R.** and Padma, T. (2017), 'Effective pesticide nano formulations and their bacterial degradation, *IOP conference series: Material Science and Engineering* 263, 1-12
- **Manjula, R** et al. (2019), 'Formulation and characterization of *Cedrus deodara* oil emulsion and studies on its activity against representative food and plant pathogens' *Research Journal of Pharmacy and Technology* 12(3), 1333-1337
- **Manjula, R.** and Padma, T. (2020), 'Molecular characterization of *Xanthomonas oryzae pv. oryzae* isolated from an infected rice (*Oryza sativa* L) plant in Vellore district, India', *Indian Journal of Biotechnology* 19, 169-175
- **Manjula, R.** and Padma, T. (2021), 'A sustainable castor oil-based agroformulation with cartap hydrochloride for potential control of pathogenic *Xanthomonas oryzae* in *Oryza sativa* L.', *Journal of Environmental Biology* 42, 74-81
- Rekha V, **Nabila M I**, Samah and Kavitha S, 'Isolation of Amylase Producing Bacteria from Paddy field Soil', *Ecology, Environment and Conservation*, ISSN - 0971-765X, 2013, Vol. 19, issue-3, 2013.

- **Nabila M I** and Kannabiran K. ‘Antibacterial activity of soil actinomycetes against fish and shellfish pathogens’, *Research Journal of Pharmacy and Technology*. ISSN. 0974-360X, 2018, Vol. 11, Issue 5, pp 1923-6.
- **Nabila M I** and Kannabiran K. ‘Antagonistic activity of terrestrial *Streptomyces* sp. VITNK9 against Gram negative bacterial pathogens affecting the fish and shellfish in aquaculture’, *Revista de biología marina y oceanografía*, ISSN: 0718-1957, 2018, Vol. 53, Issue 2, pp171-83.
- **Nabila M I** and Kannabiran K. ‘Biosynthesis, characterization and antibacterial activity of copper oxide nanoparticles (CuO NPs) from actinomycetes’, *Biocatalysis and agricultural biotechnology*, ISSN 1878-8181, Jul 2018, Vol. 1, Issue 15, pp 56-62.
- **Nabila M I**, Burgsdorf I, Limlingan Malit JJ, Saha S, Teta R, Ewe D, Kannabiran K, Hrouzek P, Steindler L, Costantino V, Saurav K. ‘Isolation, genomic and metabolomic characterization of *Streptomyces tendae* VITAKN with quorum sensing inhibitory activity from southern India’, *Microorganisms*, ISSN: 2076-2607, Jan 2020, Vol. 8, Issue 1, pp121.
- Saha S, **Nabila MI**, Burgsdorf I, Macho M, Ewe D, Steindler L, Hrouzek P, Kannabiran K, Saurav K. ‘Draft genome sequence of terrestrial *Streptomyces* sp. strain VITNK9, isolated from Vellore, Tamil Nadu, India, exhibiting antagonistic activity against fish pathogens’, *Microbiology Resource Announcements*, ISSN: 2576-098X, Jan 2021, Vol. 10, Issue 1, pp10-128.
- **Nabila M I and** Kannabiran K. ‘*Streptomyces* sp. Vitnk9 derived compound against fish bacterial pathogens’, *Biomedical and Biotechnology Research Journal*, ISSN: 2588-9834, Oct 2022, Vol. 6, Issue 4, pp 494-500.
- **Nabila Mohammed Ishaque** and Krishnan Kannabiran. ‘Bacterial-Chemical Compounds on Fish Microbial Disease Control in Aquaculture: A Systematic Review’, *Letters in Applied NanoBioScience*, Dec 2025 Volume 14, Issue 4, 2025, 262.

- **Nathiya R**, Gayathri Mahalingam, Indu Purushothaman, Vidya A and Sangeetha K. Evaluation of *in vitro* antibacterial activity of Anticonvulsant drugs. Journal of Pharma Research, ISSN: 2319-5622, Jan-2015, Vol. 4, issue 1, pp 13-15
- Gayathri GA, Mahalingam G, **Nathiya R**. Quantitative phytochemical analysis, *in vitro* reducing power and anti-oxidant activity of methanol leaf extract of *Acanthus ilicifolius*. Int J Pharmacogn Phytochem Res, ISSN: 2319-5622, Feb-2015, Vol. 7, Issue 1, pp 181-186
- **Nathiya R**, Gayathri M. Evaluation of Antidiabetic Effect of Polyherbal Formulations in STZ-Induced Mice. Int J Pharm Sci Rev Res, ISSN 0976 – 044X, Feb-2016, Vol. 37, issue 2, pp 93–97
- **Nathiya R**, Gayathri Mahalingam. Secondary metabolites from mangrove endophytes: their significance against carbapenemase resistant Enterobacteriaceae – a review. Int J Pharm Bio Sci, ISSN: 0975-6299, Jul-2016, Vol. 7, issue 3, pp 384 – 391
- Tiwari P, **Nathiya R**, Mahalingam G. Antidiabetic activity of endophytic fungi isolated from *Ficus religiosa*. Asian J Pharm Clin Res, ISSN 2455-3891, Jan-2017, Vol. 10, issue 4, pp. 59-61
- **Nathiya R**, Mahalingam G. Screening and isolation of therapeutic agent for type 2 diabetes mellitus from endophytic fungal metabolites of mangrove plants. Res J Biotechnol, ISSN: 2278 4535, Oct-2018, Vol. 13, issue 10, pp 73-86
- **Ranganathan N**, Mahalingam G. 2019. Secondary metabolite as therapeutic agent from endophytic fungi *Alternaria longipes* strain VITN14G of mangrove plant *Avicennia officinalis*. J Cell Biochem, Jan-2019, ISSN:1097-4644, Vol. 120, issue 3, pp 4021–4031. (**Impact factor: 3.448**)
- **Ranganathan N**, Mahalingam G. 2,4,6-Triphenylaniline nanoemulsion formulation, optimization, and its application in type 2 diabetes mellitus. J Cell Physiol ISSN: 1097-4652, Apr-2019, Vol. 234, issue 12, pp 22505–22516. (**Impact factor: 4.522**)
- **Ranganathan N**, Mahalingam G. Validation of the antidiabetic potential of isolated and nanoemulsified endophytic fungal metabolite 2, 4, 6-triphenylaniline through AMPK activation pathway. J Mol Liq, ISSN 0167-7322, Jul-2020, Elsevier B.V. 316, pp 113836. (**Impact factor: 5.065**)
- **Manimegalai S**, Sridharan TB, Rameshpathy M, Devi Rajeswari V (2014). Antioxidant, phytochemical screening and antimicrobial

activity of *Courpita guianensis* flower extract. *Der Pharmacia Lettre* 6(6):251-256.

- Haymanti Saha, Alok Prakash, Venkat Kumar S, **Manimegalai S**, Devi Rajeswari V (2014). Evaluation of antioxidant activity of *Pisum sativum* (pod and grain) and detection of its bioactive compounds by GCMS analysis. *Der Pharmacia Lettre* 6(6):359-365.
- Amit Kumar Srivastav, Raghvendra Singh, **S. Manimegalai** and V. Devi Rajeswari (2015). Identification of flavonoids in Methonolic extracts of *Caryota Urens* (Fish Tail Palm): A phytochemical screening involving structure analysis by FTIR Spectroscopy. *Research Journal of Phytochemistry* 9 (3): 127-136.
- Stephina Wilson, Cholan.S, Vishnu U, Mohammed Sannan, Jananiya R, Vinodhini S, **Manimegalai S**, Devi Rajeswari V. (2015) In Vitro assessment of the efficacy of free standing silver nanoparticles isolated from *Centella asiatica* against oxidative stress and its antidiabetic activity. *Der Pharmacia Lettre*. 7(12): 194-205.
- **Manimegalai Sengani**, Devi Rajeswari. V (2016). Cytotoxicity and apoptotic effect of biogenic silver nanoparticles on human colorectal cell line HT-29. *Research journal of biotechnology*, 11(9) 65-70. I.F-0.2
- **Manimegalai Sengani**, Alexandru Mihai Grumezescu, V. Devi Rajeswari (2017). Recent trends and methodologies in gold nanoparticle synthesis – A prospective review on drug delivery aspect. *OpenNano* 2:37-46
- Poppy Das, M. Himaja, V. Vinodhini and **Manimegalai.S** (2017). Evaluation of Anti-arthritis, HRBC Membrane Stabilization and Antioxidant Properties of the Edible *Phlogacanthus thyriformis* (Hardow) Mabb Flower Extracts and Their Correlation Studies. *Studies on Ethno- medicine* 11(1):1-7.
- **Manimegalai Sengani**, Devi Rajeswari. V (2017). Identification of potential antioxidant indices by biogenic gold nanoparticles in

hyperglycemic Wistar rats. *Environmental Toxicology and Pharmacology* 50: 11-19. I.F- 3.06

- **Manimegalai Sengani**, Devi Rajeswari. V (2017) Gold nano supplement in selective inhibition of methylglyoxal and key enzymes linked to diabetes. *IET Nanobiotechnology*, NBT-2017-0032.R1. I.F- 1.9
- **Manimegalai Sengani**, Shahid Mahboob, Khalid A.Al-Ghanim, Fahad Al-Misned, Marimuthu Govindarajan, Krishnan Anbarasu, Vijayarangan Devi Rajeswari (2020). Down-regulation of hepatic G-6-Pase expression in hyperglycemic rats: Intervention with biogenic gold nanoconjugate. *Saudi Journal of Biological Sciences*. Article in press. I.F – 4.2
- **Manimegalai Sengani**, Vijayarangan Devi Rajeswari, Ranganathan Parameswari, Marcello Nicoletti, Saud Alarifi, Marimuthu Govindarajan. Green synthesis, characterization and biological activity of *Solanum trilobatum*-mediated silver nanoparticles(2021). *Saudi Journal of Biological Sciences*. I.F -4.2
- **Sengani, M.**, Bavithra, V., Banerjee, M., Choudhury, A.A., Chakraborty, S., Ramasubbu, K., Al Obaid, S., Alharbi, S.A., Subramani, B. and Brindhadevi, K., 2022. Evaluation of the anti-diabetic effect of biogenic silver nanoparticles and intervention in PPAR γ gene regulation. *Environmental Research*, 215, p.114408.
- **Manimegalai, S.**, Vickram, S., Deena, S.R., Rohini, K., Thanigaivel, S., Manikandan, S., Subbaiya, R., Karmegam, N., Kim, W. and Govarthanan, M., 2022. Carbon-based nanomaterial intervention and efficient removal of various contaminants from effluents–A review. *Chemosphere*, p.137319.
- Vinodhini, S., **Sengani, M.**, Choudhury, A.A., Ramasubbu, K., Chakraborty, S., Banerjee, M., Balaji, M.P. and Rajeswari, V.D., 2022. Regulation of glucose transporter-4 intervention with *S. saman* leaves extract in streptozotocin-induced diabetic rats. *Journal of Diabetes and its Complications*, 36(12), p.108340.

- **Sengani, M.**, Chakraborty, S., Balaji, M.P., Govindasamy, R., Alahmadi, T.A., Al baid, S., Karuppusamy, I., Chi, N.T.L. and Brindhadevi, K., 2023. Anti-diabetic efficacy and selective inhibition of methyl glyoxal, intervention with biogenic Zinc oxide nanoparticle. *Environmental Research*, 216, p.114475.
- **Bhakyashree, K.** and Kannabiran, K. (2018), Anti-MRSA activity of actinomycetes isolated from marine soil sample of ariyaman beach, Tamil Nadu, India, *Research Journal of Pharmacy and Technology*, **11**(5), 2036-2039.
- **Bhakyashree, K.** and Kannabiran, K., 2020. Pharmaceutical and Biotechnological Importance of Actinobacterial Products. *Indian Journal of Pharmaceutical Education and Research*, **54**(4), 858-864.
- **Bhakyashree, K.** and Kannabiran, K. (2020), Actinomycetes mediated targeting of drug resistant MRSA pathogens, *Journal of King Saud University-Science*, **32**(1), 260-264.
- **Krishnamurthy, B.** and Kannabiran, K., (2024). Isolation and identification of Anti-MRSA compound from terrestrial Actinomycetes species VITBKA3. *Journal of Microbiology, Biotechnology & Food Sciences*, 14(1). 1-5
- Lokesh Ravi, **Bhakyashree Krishnamoorthy** and Krishnan Kannabiran Methicillin resistance *Staphylococcus aureus* treatment by targeting Ribosomal RNA using modified linezolid: A structure based CADD Analysis approach. *Advances in Biology, Biotechnology and Genetics*, **4**(1):1-8

Book Chapter Published

- **Kalpana, V.N.** and Rajeswari, V.D., 2017. Biosynthesis of metal and metal oxide nanoparticles for food packaging and preservation: a green expertise. In *Food biosynthesis* (pp. 293-316). Academic Press. ISBN: 978-0-12-811372-1.
- **Kalpana, V.N.** and Rajeswari, V.D., 2019. Preservatives in beverages: perception and needs. In *Preservatives and preservation approaches in beverages* (pp. 1-30). Academic Press. ISBN: 978-0-12-816685-7.

- **V. N. Kalpana and K. Harrshani** , Phytomedicine Innovations: The future of Plant - based Therapies. *Biotechnology and Phytomedicine: CRISPR and Beyond* (pp. 1-20). JPS Scientific Publications. ISBN 978-81-977907-4-4.
- Nabila Mohammed Ishaque , **Kalpana Vellore Nagarajan** , Nafeesa Nawab Khan , Jayanarmadha Dhanabalan , Gopalakrishnan Loganathan. Strain development and optimization strategies for maximizing secondary metabolite yield. *Progress in Biochemistry and Biotechnology*

2026, Pages 49-62

- **V. N. Kalpana**, D. Jayanarmadha and K. Harrshani. Nanotechnology In Agriculture. Recent Advances in Microbial Sciences. ISBN: 978-81-979376-7-5. Chapter – 15, Page: 237 – 253
- **V. N. Kalpana** and D. Jaya Narmadha. Microbe Based Plastics: A Sustainable Alternatives. Recent Advances in Microbial Sciences ISBN: 978-81-979376-7-5 Chapter – 18, Page: 282 – 296
- K. Harrshani and V N **Kalpana**. Nanotechnology-Enabled Innovations in Healthcare and Medicine. Fundamentals and Emerging Applications of Nanoscience and Nanotechnology – Volume II. ISBN: 978-93-48679-89-5. First Edition. Chapter – 2 Pages: 16 – 34
- D. Jayanarmadha & V.N. Kalpana Microbial And Enzymatic Degradation Of Plastics -Environmental Factors Influencing Biodegradation. Fundamentals and Emerging Applications of Nanoscience and Nanotechnology – Volume III. ISBN: 978-93-48679-89-5. Chapter – 5 Pages: 64 - 79
- **Nithya. A**, Shivani. K and Kothai. S. Genomics, Recent Advances in Microbial Science, JPS Scientific Publications, India, ISBN: 978-81-979376-7-5, 2026, PP: 297-313.
- **Manjula, R** and Padma T, ‘Current Trends and Emerging Technologies for the Pest Control Management of Rice (*Oryza sativa* L.) Plants’, *Environmental Biotechnology Springer* volume 4, (2021), DOI:10.1007/978-3-030-77795-1-5
- **Manjula, R** and Jothi S, ‘Immunomodulatory Activities of Bioactive Compounds from Microbes’, *Recent Advances in Microbial Sciences*, (2026), Chapter – 20, page number – 314-339 (ISBN Number: 978-81-979376-7-5)

- **Nabila Mohammed Ishaque***¹, Kalpana Vellore Nagarajan ¹, Nafeesa Nawab Khan ¹, Jayanarmadha Dhanabalan¹, Gopalakrishnan Loganathan², ‘Strain Development and Optimization Strategies for Maximizing Secondary Metabolite Yield’, Part of series: Progress in Biochemistry and Biotechnology, Book entitled, “*Novel Bioproducts through Metabolic Engineering of Secondary Metabolites*”, Academic Press, Dec 2025, ISBN: 978-0-443-40529-7, DOI: 10.1016/C2024-0-03024-X.
- Nafeesa Nawab Khan and **Nabila Mohammed Ishaque***, Book Chapter entitled, ‘An insight on the genome sequencing of the microbes’, Book entitled, “*Recent advances in microbial sciences*” (ISBN Number: 978-81-979376-7-5) Feb 2026, JPS Scientific Publications, India.
- **Nathiya, R.** and Mahalingam, G., Role of mangrove endophytic fungi in diabetes mellitus - *Biotechnological Utilization of Mangrove Resources* - ISBN 9780128195321 - 2020 - (pp. 435-460). Academic Press - <https://doi.org/10.1016/B978-0-12-819532-1.00021-4>
- J. Geetha, B. Sridevi and **R. Nathiya***. Innovative treatment strategies for arthropods borne viruses. Recent Advances in Microbial Sciences. Page no: 265 - 281, India. ISBN 978-81-979376-7-5, 2026.
- B. Sridevi, J. Geetha and **R. Nathiya***. Role of biofilm in antimicrobial resistance and its therapeutic approach. Recent Advances in Microbial Sciences. Page: 211 – 236, India. ISBN 978-81-979376-7-5, 2026.