

PUBLICATIONS & OTHER ACADEMIC ACTIVITIES

- **Publication: Papers/Books(with journal/publisher name)**

Peer-reviewed papers

1. **Sanasam S**, Bhaigyabati Th, Jessie G, Bag GC, Singh LR, Pukrambum PG (2020 In Press) Phytochemical profiling, antimicrobial activity and GC-MS analysis of *Allium odorum* L. collected from Ema market, Manipur. ***Int J. Pharmacognosy and Phytochem Res.*** (Accepted for publication in IJPPR with Manuscript no. 12172019PPRE; ISSN: 0975-4873)
2. Bhaigyabati Th, **Sanasam S**, Jessie G, Bag GC, Singh^{LR} Pukrambum PG (2020 In Press) Phytochemical profiling, antioxidant activity, antimicrobial activity and GC-MS analysis of *Ipomoea aquatica* Forsk collected from Ema market, Manipur. *J of Pharmacognosy and Phytochem.* (Accepted for publication in ***J of Pharmacog and Phytochem*** 9(1) 2335-2342.
3. Jessie G, Bhaigyabati Th, **Sanasam S**, Bag G.C, Singh LR, Devi PG (2019). Chlorophyll content of some selected edible plants sourced from ima market, Manipur, India. ***International J of Pharmacy and Biological Sciences.*** 9(2) 1251-1259.
4. Nimaichand S, **Sanasam S**, Zheng L-Q, Zhu W-Y, Yang L-L, Tang S-K, Ningthoujam DS, Li WJ (2013). *Rhodococcus canchipurensis* sp. nov., a novel actinomycete isolated from a limestone deposit site in Manipur, India. ***International Journal of Systematic and Evolutionary Microbiology*** 63, 114–118.
5. Ningthoujam, DS, **Sanasam S**, Mutum A. (2012). Characterization of p-nitrophenol degrading actinomycetes from Hundung limestone deposits in Manipur, India. ***African Journal of Biotechnology.*** 11 (44) 10210-10220.
6. **Sanasam S**, Nimaichand, S. Ningthoujam, D.S. (2011). Novel bioactive actinomycetes from a niche biotope, Loktak Lake, in Manipur, India. ***Journal of Pharmaceutical Research.*** 4: (2) 1707- 1710.
7. Ningthoujam, DS, **Sanasam S**, Nimaichand, S. (2011). Studies on Bioactive Actinomycetes in a niche Biotope, Nambul River in Manipur, India. ***J. Microbial & Biochem Tech.*** <http://dx.doi.org/10.4172/1948-5948.S6-001>.
8. **Sanasam S** and Ningthoujam, D.S. (2010). Screening of Local Actinomycete Isolates in Manipur for Anticandidal Activity. ***Asian Journal of Biotechnology,*** 2: 139-145.
9. Tamreihao, K., **Sanasam S**, Nimaichand, S and Ningthoujam, D.S. (2010). Screening of indigenous Actinomycete isolates for biocontrol activities against rice fungal pathogens. ***Journal of the Assam Science Society.*** 51(2): 36-43.

10. **Sanasam, S.**, Nimaichand, S. and Ningthoujam, D.S.(2010). Isolation and characterization of a *Streptomyces* strain LS1-117 showing antibacterial especially anti - *S.aureus* activity. *Journal of the Assam Science Society*. **51(2)**: 69-75.
11. Ningthoujam, D.S., **Sanasam, S.** and Nimaichand, S. (2009). Screening of Actinomycetes Isolates from Niche Habitats in Manipur for Antibiotic Activity. *American Journal of Biochemistry and Biotechnology*, **5**: 221-225.
12. Ningthoujam, D.,**Sanasam, S.** and Nimaichand, S. (2009). A *Streptomyces sindenensis* Strain LS1-128 Exhibiting Broad Spectrum Antimicrobial Activity. *Research Journal of Biological Sciences*, **4**: 1085-1091.
13. Ningthoujam, D.S.,Kshetri, P., **Sanasam, S.** and Nimaichand, S. (2009). Screening, Identification of Best Producers and Optimization of Extracellular Proteases from Moderately Halophilic Alkalithermotolerant Indigenous Actinomycetes. *World Applied Sciences Journal*, **7**: 907-916.
14. Ningthoujam, D.S., **Sanasam, S.**,Tamreihao, K. and Nimaichand, S. (2009). Antagonistic activities of local actinomycete isolates against rice fungal pathogens. *African Journal of Microbiology*, **3**: 737-742.
15. **Sanasam, S.** and Ningthoujam, D. (2005) Diversity of Actinomycetes in selected soils of manipur and their antibiotic potential. *Journal of Assam Science Society*,**45**: 44-47.

Book Chapter

1. Deka, B.J., Bohra, V., Alam, W., **Sanasam, S.**, Guo, J., Borana, L., An, A,K. (2020) Environmental Impact Assessment of COVID-19. (Chapter 8) in M.K. Goyal, A.K. Gupta (eds) Integrated Risk of Pandemic: Covid-19 Impacts, Resilience and Recommendations, Disaster Resilience and Green Growth, http://doi.org/10.1007/978-981-15-7679-9_8 (under exclusive license to Springer Nature Singapore Pte Ltd. 2020.

- **Papers Presented:**

Abstracts of oral papers:

1. *Alkaliphilic Actinomycetes and their biotechnological potential: A preliminary screening in Loktak Lake, Manipur*, National Seminar on Recent Advances in Life Sciences, Manipur University, March 23-24, 2007.

2. *Isolation and characterization of thermophilic protease producing Bacillus species from garden soil in Manipur, India*, Thermophiles 2007, University of Bergen, Norway, Sept 24-27, 2007.
3. *A preliminary report on isolation and characterization of Actinomycete isolates obtained from Loktak Lake sediments*. XI Manipur Science Congress, Manipur University, March 27-29, 2008.
4. *Isolation and characterization of a Streptomyces strain LSI-117 showing antibacterial especially anti-S. aureus activity* Annual Technical Session, Assam Science Society, org. by Gauhati University, Guwahati, Feb 15, 2010.

Abstracts of poster presentations

1. *Diversity of soil actinomycetes in selected biotopes of Manipur and screening for antibiotic activities*, International Conference, Microbial Diversity: current perspectives & potential applications, apr 16-18, 2005, Dept of Microbiology, UDSC, Delhi.
2. *Studies on antibacterial and antifungal activities of some local soil actinomycete isolates*, National Seminar on Biodiversity Conservation and Future Concern, Orgd. by North East Biotechnological Assn. (NEBA), Dept of Biotechnology, Gauhati Univ., gauhati, June 17-18, 2005.
3. *Isolation, preliminary characterization and bioactivity assay of actinomycetes from various biotopes of Manipur*, 47th Annual AMI Conference, Barkatullah University, Bhopal, MP, Dec 6-8, 2006.
4. *Preliminary screening of actinomycete isolates from niche habitats in Manipur for Antibiotic activity*, National Conference on Microbial Diversity: Avenues and Applications, SBSPGI, Dehradun, March 17-18, 2007.
5. *Isolation and characterization of extracellular protease producing thermotolerant Bacillus species from sediments of Loktak Lake in Manipur, India*, Thermophiles 2007, University of Bergen, Norway, Sept 24-27, 2007.
6. *Survey of niche habitats in Manipur for antibiotic producing actinomycetes: I. Preliminary characterization and bioactivity assay of actinomycetes isolated from a local salt spring at Ningel, Manipur, India*, Intl. Conf. on NHBT-2007, NIIST, Trivandrum, Nov. 26-29, 2007.
7. *Actinomycete Biotechnology: Biotechnological potential of extremophilic and rare actinomycetes – An as-yet unexhausted treasure trove*, same as above.
8. *Biodiversity of bioactive metabolite producing actinomycetes in selected biotopes of Manipur, an underexplored zone of Indo-Burma Hotspot: an appraisal of*

preliminary survey done so far, 48th Annual AMI Conference, IIT Madras, Chennai, Dec 18-21, 2007.

9. *A Streptomyces sp. strain LSI-128 exhibiting broad spectrum antibacterial activity, 3rd ICBF and 5th BRSI convention, Osmania University, Hyderabad, Nov 6-8, 2008.*
10. *Studies of bioactive actinomycete diversity in Nambul River in Manipur, same as above.*
11. *A report on Actinomycete isolates from various biotopes in Manipur and their bioactivities: Lake sediment, salt springs, caves, river sediments, forest and endophytic strains, 49th Annual AMI Conference on Microbial Biotechnology: Diversity, Genomics and Metagenomics, DUNC, nov 18-20, 2008.*
12. *Studies on endophytic actinomycete from indigenous plants in Manipur and screening for their bioactivities, same as above.*
13. *Isolation of rare actinomycete using selective media and various pretreatment methods, same as above.*
14. *Screening of actinomycete isolates from niche habitats in Manipur for antibiotic activity, 96th Indian Science Congress, NEHU, Shillong, Jan 3-7, 2009.*
15. *Preliminary screening of PGPR isolates from rhizospheric soils of Indigenous rice plant (Oryza sativa) of Manipur, First Asian PGPR Congress for Sustainable Agriculture, ANGRAU, Hyderabad, June 21-24, 2009.*
16. *Preliminary characterization of PGPR strains isolated from rhizospheric soils of Manipur, same as above.*
17. *Screening and optimization of extracellular proteases from moderately thermophilic actinomycetes, Thermophiles 2009, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China, August 16-21, 2009.*
18. *Screening of Indigenous Actinomycete Isolates for biocontrol Activity against Rice Phytopathogens, ISBA'15, Shanghai Jiao Tong University, China, August 20-25, 2009.*
19. *Diversity of Bioactive Actinomycetes in Various niche habitats of Manipur, same as above.*
20. *Diversity of Actinomycetes in Wetlands of Manipur, India, same as above.*
21. *Isolation and characterization of Actinomycetes from Hundung Limestone Quarries, Manipur (India), 50th Annual AMI Conference, NCL Pune and University of Pune, December 15-18, 2009.*

22. *Studies of Bioactive Actinomycete in Nambul River, Manipur, India, same as above.*
23. *Diversity of Rare Actinomycetes in Various Niche Habitats of Manipur, same as above.*
24. *Screening of Indigenous Actinomycetes Isolates for Phosphate Solubilization and Chitinase activity, same as above.*
25. *Characterization of p-nitrophenol degrading actinomycete strains obtained from Hundung Limestone deposit sites, Manipur, India 51st Annual conference of AMI at BIT, Mesra, Ranchi, Jharkhand. December 14-17, 2010.*
26. *Isolation and antimicrobial screening of actinomycetes from a limestone habitat at Hundung, Manipur. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.*
27. *Bioaugmentation studies for degradation of PNP in soil by a pseudomonas sp. strain BCP-1. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.*
28. *Studies on screening of actinomycetes in MBRL collection, Manipur University, for keratinolytic activity. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.*
29. *Screening of antimicrobial activity of actinomycete isolates from various habitats of Manipur. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.*
30. *Screening of antifungal activity of actinomycetes from different habitats of Manipur. 52nd Annual conference of Association of Microbiologist of during Nov 3-6, 2011 at Punjab University, Chandigarh.*
31. *Novel actinobacterial species from a limestone habitat in Hundung, Manipur, India. 16th International symposium on the Biology of actinomycetes, Peurto Vallarta, Mexico December 11-15, 2011.*
32. *Rhodococcus canchipurensis sp. nov., a novel actinobacterial species from a limestone habitat in Manipur, India. 16th International symposium on the Biology of actinomycetes, Peurto Vallarta, Mexico December 11-15, 2011.*
33. *Isolation and screening of endophytic and keratin waste decomposing soil actinomycetes and characterization of the bioactive strains. 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.*
34. *Development of formulation of the Streptomyces sp. N3-3b for the plant growth promotion and biocontrol activities of the rice plant in Manipur. 53rd Annual*

Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.

35. *Isolation and screening of Endophytic actinomycetes from medicinal plants. 53rd Annual Conference of AMI during November 21-24, 2012, School of Biotechnology, KIIT University, Bhubaneswar, Odisha.*

36. *Extraction and estimation of chlorophyll content of 14 selected plant species collected from Ima Market, Manipur. 105th Indian Science Congress during March 16-20, 2018, Manipur University, Canchipur, Imphal.*