



**Mr. Jeremy N Syiem,
Assistant Professor, Zoology Department**

ACADEMIC QUALIFICATIONS: MSc

Research Interest: Entomology, Environmental microbiology.

OTHER QUALIFICATIONS: UGC-CSIR NET

PROJECTS (2014-2018):

Completed:

1. Determination of Antibacterial properties of traditional medicine produced from Umwai village, Mawlai town and Lyngkyrdem village of the state of Meghalaya, Funding - UGC-MRP (2015-2017) – PI: Mr. J. N. Syiem
2. Analysis of water quality of Lukha river, Meghalaya, isolation and characterization of bacterial bioindicators, Funding - UGC-MRP (2015-2017) – PI: Mr. J. N. Syiem
3. Determination and comparison of antibacterial properties of commonly used disinfectants and antiseptics – PI: Mr. J. N. Syiem
4. Assessment of the potability of water obtained from Umkhrah, Umshyrpi, Umshing and Mylliem rivers of East Khasi hills District, Meghalaya - PI: Mr. J. N. Syiem
5. A comparative study on the effect of UV irradiation on selected bacterial species – PI: Mr. J. N. Syiem.

PUBLICATIONS (2014-2018):

1. Wahlang, L., Rymbai, R., Kharkongor, I and Syiem, J. N. (2015), "Determination and comparison of antibacterial properties of commonly used disinfectants and antiseptics", Spectrum - Science & Technology, Vol. 2. pp 44 – 47. ISSN - 2349-2937

2. Syiem, J. N. and Lyngdoh, R. M., (2016), "Detection of stx genes in E. coli samples isolated from pork and beef obtained from retail shops in Shillong, Meghalaya", International Journal of Scientific Research, Vol. 5 (3), pp. 108 -109. ISSN 2277 – 8179.
3. Lyndem, S. and Syiem, J.N. (2016), "A Comparative study on the Antibacterial Properties of Traditional Oils produced from Umwai village, Mawlai town and Lyngkyrdem Village of the State of Meghalaya", Biological Forum – An International Journal, Vol. 8 (1), pp. 221 – 225, ISSN 0975-1130
4. Gogoi, A., Hujon, A., Lyngwi, M.M. and Syiem, J.N. (2016), "Determination of the Quality of Lukha River, Meghalaya on the Basis of Physicochemical and Microbiological Parameters", International Journal of Current Microbiology and Applied Sciences, Vol. 5 (3), pp. 770 – 775, ISSN 2319-7692, DOI: 10.20546/ijcmas.2016.503.089
5. Warjri, H., Bharadwaj, K. T., Singh, P. K. & Syiem, J. N. (2016), "Assessment of the potability of water obtained from Umkhrah, Umshyrpi, Umshing and Myllem rivers of East Khasi hills District, Meghalaya", Spectrum - Science and Technology, Vol. 3. pp 105 – 115. ISSN - 2349-2937
6. Lyndem, S. and Syiem, J.N. (2017), "Determination of Antibacterial properties of Traditional medicines collected from three villages in the state of Meghalaya", In: ICAVLS 2017 Proceedings, Eds: R. P. Bhaskar and Ratnakar D.B, IMRF Publ., pp 23. ISBN: 978-93-84124-96-0.
7. Syiem, J.N. and Lyngwi, M.M. (2017), "Seasonal Variations in the Lukha river, Meghalaya with regards to Physicochemical Parameters and the presence of coliforms as Bio-indicators", In: ICAVLS 2017 Proceedings, Eds: R.O. Bhaskar and Ratnakar D.B, IMRF Publ., pp. 28. ISBN: 978-93-84124-96-0.

SEMINARS AND WORKSHOPS ATTENDED (2014-2018):

1. National Conference on "Biodiversity and Environment" organized by the United Board Heber Partnership for Environmental Action, Bishop Heber College, Trichy and Union Christian College, Meghalaya from 10th – 12th February, 2014.
2. AICTE sponsored Faculty Development Programme "Testing and Quality Control of Plastic Products" organized by Central Institute of Plastics Engineering & Technology (CIPET), Guwahati from 10th to 21st March, 2014.
3. Faculty Development Programme, "Research Capability Enhancement" organized by the Research Cell, St. Anthony's College, Shillong under the aegis of IQAC, St. Anthony's College, Shillong on the 23rd August, 2014.
4. "Advancing Scholars 2014" a one day Inter College students' Seminar organized by the Department of Biochemistry, St. Edmund's College, Shillong on the 19th September, 2014.
5. DBT sponsored workshop on " Capacity building in Effective Management of Intellectual Property Rights (IPRs) in Biotechnology by Universities and Research Institutes in Meghalaya" organized by BCIL, New Delhi at St. Anthony's College, Shillong on the 22nd and 23rd September, 2014.

6. Guest Lectures on “Biochemical and Genetic Characterizaion of Young Onset Diabetes Mellitus” and “The Potential of Herbs in the Management of Type 2 Diabetes Mellitus” organized by the Deptt. of Biotechnology, St. Anthony’s College on 16th March, 2015.
7. Workshop on “Semester System” organized by St. Anthony’s College under the aegis of the IQAC from the 21st to 22nd April, 2015.
8. Seminar on “Innovative Strategies: A Roadmap for Upliftment of Teaching, Learning and Evaluation in Higher Education” organized by IQAC, St. Mary’s College, Shillong from the 22nd to 23rd September, 2015.
9. Workshop on “Molecular Biology Tools and Techniques” organized by the Institutional Biotech Hub, St. Mary’s College Shillong from 27th November – 1st December, 2015.
10. Training Workshop on “R software and Perl” organized by the DBT-BIF, St. Anthony’s College from 28th March – 2nd April, 2016.
11. “Capacity Building Workshop” organized by the Centre for Education Beyond Curriculum (CEDBEC), Christ University, Bengaluru from the 20th – 25th June, 2016.
12. International Conference on “Recent Trends in Agriculture, Veterinary & Life Sciences – 2017” organized by Carmel College of Arts, Science & Commerce for Women, Goa and International Multidisciplinary Research Foundation from 2nd to 4th February, 2017.
13. Seminar cum Workshop on “Rally for Umngi: A River Conservation Movement” organized by Friends of the Umngi River at Synod College on the 20th October, 2017.
14. 7th Symposium of the DNA Society of India on the theme “Importance of DNA fingerprinting, cataloguing and utilization of the Bioresources of North-East India” organized by Institute of Advanced Study in Science and Technology, Guwahati and Cotton University, Guwahati on 17th and 18th November, 2017.
15. Faculty Orientation in Research and Teaching Excellence organized by Salesian College, Sonada from the 1st – 5th December, 2018.

PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS (2014-2018):

1. Presented a paper entitled “*Biological Control as a Means to Preserve Biodiversity*” in the Regional Seminar on “Environmental Problems: Extinction of Biological Species in North-East India” organized by the Department of Zoology, Synod College, Shillong on 17th September, 2009.
2. Presented a paper entitled “*The Dark Side of Livestock: Methane Production by Cattle and its effect on Global Warming and Climate Change*” in the National Conference on “Climate Change, Potential Environmental Apocalypse: Human Ethics in Question” organized by Synod College, Shillong on 7th and 8th October, 2010.
3. Presented a paper entitled “*Microbial Biodiversity and its Importance in the Mitigation and Remediation of Environmental Pollution*” in the National Conference on Biodiversity and

Environment, NCBE – 2014 organized by the United Board Heber Partnership for Environmental Action, Bishop Heber College, Trichy held on the 10th – 12th February, 2014.

4. Presented a paper entitled “ *Seasonal Variations in the Lukha river, Meghalaya with regards to Physicochemical Parameters and the Presence of Coliforms as Bioindicators*” in the International Conference on Recent Trends in Agriculture, Veterinary & Life Sciences – 2017 organized by Carmel College of Arts, Science & Commerce for Women, Goa and International Multidisciplinary Research Foundation from 2nd to 4th February, 2017.
5. Presented a paper entitled “*Isolation and Identification of Pigmented Bacteria from Lukha river, East Jaintia Hills, Meghalaya using 16S rRNA sequences*” in the 7th Symposium of the DNA Society of India organized by Institute of Advanced Study in Science and Technology, Guwahati and Cotton University, Guwahati on 17th and 18th November, 2017
6. Presented a paper entitled “*Bacterial Indicators of Water Pollution*” in the International seminar on Understanding Water Crisis: The Way Forward organized by Synod College, Shillong from the 6th - 7th June, 2019.
7. Presented a paper entitled “Determination of the use of *Chironomus* larvae as bioindicators of the presence of pathogenic bacteria in freshwater bodies” in the Regional seminar on Recent Advances in Science and Technology organized by Union Christian College, Ri-Bhoi, Meghalaya from the 12th – 14th June, 2019.

WORKSHOPS, SEMINARS AND OTHERS ORGANISED AND CO-ORDINATED (2014-2018):

- Member of the Organizing Committee for the Poster Competition on “Adapting to Climate Change: Your Subject’s Perspective” organized by the Deptt. of Biotechnology and Biochemistry, St. Anthony’s College and held on the 4th June, 2014.
- Member of the Organizing Committee of the Writers’ Talk as part of the Book Fair and Literary Interactions 2014 organized by IQAC, St. Anthony’s College, Shillong in collaboration with the Department of Information and Public Relations, Govt. of Meghalaya, Shillong held from the 31st July to 2nd August, 2014.
- Member of the Organizing Committee for the Faculty Development Programme “Research Capability Enhancement” organized by the Research Cell, St. Anthony’s College, Shillong under the aegis of IQAC, St. Anthony’s College, Shillong on the 23rd August, 2014.
- Member of the Organizing Committee in the DBT sponsored workshop on “Capacity Building in Effective Management of Intellectual Property Rights (IPRs) in Biotechnology by Universities and Research Institutes in Meghalaya” jointly organized by the Biotech Consortium of India Limited (BCIL), New Delhi and St. Anthony’s College, Shillong on the 22nd and 23rd September, 2014.
- Member of the Organizing Committee in the North-East Autumn Workshop on “Genetic Analysis of Complex Traits” jointly organized by St. Anthony’s College, Shillong and the Indian Statistical Institute, Kolkata on the 5th and 6th September, 2017.

- Member of the Organizing Committee in the National Workshop on “Molecular Phylogenetics and its Application” organized by the Department of Zoology, St. Anthony’s College, Shillong from the 25th – 28th October, 2017.
- Member of the Editorial Board for the Journal “Spectrum: Science & Technology” published by the Research Cell, St. Anthony’s College, Shillong, 2015.
- Additional charge as Assistant Coordinator of the DBT - Advance Level Institutional Biotech Hub, St. Anthony’s College.
- Additional charge as the Joint Secretary of the Institutional Ethics Committee, St. Anthony’s College.
- Member of the Post Graduate Exam Committee, St. Anthony’s College.
- Member of the Organizing Committee for the Inaugural session of the Induction Programme for the Post Graduate students.
- Department In-charge of Documentation.