



St. Edmund's College

NAAC Accredited A

Affiliated to North Eastern Hill University

Recognized by the University Grant Commission under 2 (f) and 12 (B) of the UGC Act 1956

Awarded STAR STATUS COLLEGE (DBT, Govt. of India)

Profile

1. NAME- BARIHUN THYRNIANG
2. CONTACT DETAILS (EMAIL) barihunthyrniang09@gmail.com
3. DEPARTMENT- Advanced Biotechnology Research Lab
4. QUALIFICATION - MSc BIOTECHNOLOGY
5. CURRENT POSITION - TECHNICAL ASSISTANT
6. SPECIALIZATION - Molecular Biology and Microbiology
7. RESEARCH EXPERIENCE – 5 Years
8. ORCID ID: 0009-0002-2105-4561
9. PUBLICATIONS (YEAR WISE)



YEAR	Journal (Details)	Book Chapter (Details)
2019	Negi Yogesh, Sharma Sunil, Thyrniang Barihun, Laloo Frankie J, Adhikari Samrat, Effect of mercury on the growth and Biochemical behavior of <i>Nostoc muscorum</i> and <i>Anabaena variabilis</i> , Int J Pharma Bio Sci, Volume 10 (3), 2019, ISSN 0975-6299, https://doi.org/10.22376/ijpbs.2019.10.3.b11-21 .	
2024	Paul Sibange, Thyrniang Barihun, Deb Sumit, Adhikari Samrat, Impact of Effluent Treatment Plant Sludge on growth, Physiology, and Biodegradation Potential of Cyanobacteria: <i>Anabaena variabilis</i> , <i>Nostoc muscorum</i> , and <i>Nostoc sp.</i> , International Journal of Ecology and environmental Sciences, Volume 50 (6), 2024, https://doi.org/10.55863/ijees.2024.0289	
2025		Paul S., Thyrniang B., Deb S., Adhikari S. Harnessing the ability of cyanobacterium <i>Anabaena variabilis</i> for bioremediation of waste generated from oil refineries. In: Joshi S. R., Verma P., Banerjee S., eds. Mineral Transformation and Bioremediation by Geo-Microbes. Interdisciplinary Biotechnological Advances. Singapore, Springer, 2025, rr.525-543. https://doi.org/10.1007/978-981-96-3033-2_21
2026	Paul Sibange, Thyrniang Barihun, Deb Sumit, Adhikari Samrat, A multidimensional study of enzyme activity and hydrocarbon reduction for bioremediation of refinery waste by free living cyanobacteria, Journal of Applied Biology and Biotechnology, Volume 14(1), 2026, http://dx.doi.org/10.7324/jabb.2025.244611	
2026	Thyrniang Barihun, Paul Sibange, Deb Sumit, Adhikari Samrat, Impact of petroleum Hydrocarbons on Algal Enzyme Activity and Hydrocarbon Degradation: Comparing Crude Oil, Effluent Treatment Plant Sludge, and Tank Bottom Sludge, Current World Environment, Volume 21 (1), 2026, ISSN 0973-4929, http://dx.doi.org/10.12944/CWE.21.1.22	
2026	Thyrniang Barihun, Paul Sibange, Lyngdoh Dominic, Manners Baiakmenlang, Deb Sumit, Adhikari Samrat, Identification of Anti-cancer Lead Compounds from <i>crocus sativus</i> : A Comprehensive Molecular Docking and QSAR Investigation,	



St. Edmund's College

NAAC Accredited A

Affiliated to North Eastern Hill University

Recognized by the University Grant Commission under 2 (f) and 12 (B) of the UGC Act 1956

Awarded STAR STATUS COLLEGE (DBT, Govt. of India)

Profile

2026

Veritas Edmundian Journal Multidisciplinary Research (EJMR),2026.

Paul Sibange, Thyrniang Barihun, Koch Rangraj, Lyngdoh Dominic, Challam Shekinah, Deb Sumit, Adhikari Samrat, Identification of Anti-cancer Lead Compounds from crocus sativus: A Comprehensive Molecular Docking and QSAR Investigation, Veritas Edmundian Journal Multidisciplinary Research (EJMR),2026.

10. ORAL/POSTER Presentation (YEAR WISE)

Sl	Name of the Conference	Name of the Paper Presented	National/International	Mode of Presentation	Organized by	Dates
1.	1 st International e- conference on Agro- Environmental Sustainability (ICAGENS 2024)	Investigating the petroleum hydrocarbon compounds degradation capacity of algae Chlorella sp.	International	Poster Presentation	University of Zagreb Faculty of Agriculture, Zagreb, Croatia In association with Society for Agro- Environmental Sustainability, Dehradun, India.	19-20 October 2024.

11. Any Other Information (if any)

Add-on Courses Conducted

- Research Methodology and Analytical Instrumentation
31 Participants
Conducted on :15th September to 15th November, 2025
- Analytical and Extraction Techniques in Bioscience
35 Participants
Conducted on :11th December to 20th December, 2025
- Advanced Analytical Techniques in Life Sciences
18 Participants
Started on :13th March 2026, 16th May 2026
- Gene Cloning technology
10 Participants
Started on :18th March 2026, 8th May 2026

Workshops conducted

- Gas Chromatography Flame Ionization Detection Technique
20 Participants
Conducted on :8th to 10th May, 2025



St. Edmund's College

NAAC Accredited A

Affiliated to North Eastern Hill University

Recognized by the University Grant Commission under 2 (f) and 12 (B) of the UGC Act 1956

Awarded STAR STATUS COLLEGE (DBT, Govt. of India)

Profile

- ii. Gas Chromatography Flame Ionization Detection Technique
21 Participants
Conducted on :12th to 13th May, 2025
- i. Molecular Cloning Techniques
24 Participants
Conducted on :28th July to 18th August, 2025