

CURRICULUM VITAE

DR. MAIBAM ROMEO SINGH



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Citation: 340; H-index: 8; i10: 6

Dr. Maibam Romeo Singh is joined as Assistant Professor in Centre for Biodiversity, Department of Botany, Nagaland University, Lumami on 26th October, 2012. **At present, he is working as Associate Professor in Department of Botany, Nagaland University, Lumami.** He obtained his M. Sc. (**Environmental Science**) from Jiwaji University, Gwalior (M.P) in 2003 and cleared **UGC (NET) 2005 in Environmental Science**. He got his Ph. D award from Manipur University (2011) on the thesis entitled “**Ecological investigation on *Lemanea* species from the rivers of Manipur**”. He has been as a guest lecturer (Environmental Science) in Y.K College, Govt. of Manipur for 5 years. **He has published 4 books, 8 chapters in edited book, 3 proceeding, 6 full length articles and 38 scientific researched papers in reputed national and international journal.** He had presented papers in many of the national/international conferences and participated in many of the workshop/training. He is awardees of “**Young Scientist**” for his best paper presentation in national conference organized by PGTD of Botany, RTM University, Nagpur. He has been editorial board members in some of the International journal and reviewer of the journals. He is life members of some of the professional bodies. His areas of **research interest** are: *Ecology/Environmental Science, algal ecology, riparian forest ecology, conservation biology, biodiversity conservation, nutrient dynamics (Terrestrial/Aquatic ecosystems), water and soil pollution studies, riparian forest ecosystem and management.* 4 Ph. D. scholars has been awarded their Ph. D degree under his supervision, and 5 Ph. D scholars are working at present. He also guided 35 M. Sc students for their dissertations. **He has**

completed three major research projects (1 as PI sponsored by UGC completed; 1 as Co-PI and 1 as PI in DBT sponsored project) and 1 consultancy project sponsored by MoEF & CC, Govt. of India.

Academic Qualifications:

Examination	Name of Degree	Subject(s)	Overall Percentage	Year	University/Institute
Secondary	Board of Secondary Education, Manipur	Eng., MIL, Social Sc., Mathematics, Sciences	68	1993	Mela Lampak High School
Sr. Secondary	Council of Higher Secondary Education, Manipur	Eng., MIL, Mathematics, Sciences	59	1995	D. M. College of Science
Bachelor's Degree	B. Sc. Honours	Chemistry	66	1999	D.M. College of Science
Master's Degree	M. Sc.	Environmental Science	62	2003	Jiwaji University
Ph. D. Degree	Degree of Philosophy	Life Sciences		2011	Manipur University
	UGC-NET	Environmental Science		2005	

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2. Current Position: Associate Professor (date of joining: 24-04-2023)

Department of Botany, Nagaland University

Lumami-798627, Nagaland, India

3. Teaching Experiences: 15 years

Designation	Institute	Period	
Guest Lecturer	Y.K College, Govt. of Manipur	29-12-2006	25-10-2012
Assistant Professor	Centre for Biodiversity, Department of Botany, Nagaland University, Lumami	26-10- 2012	24-04-2023
Associate Professor	Department of Botany, Nagaland University, Lumami	25-04-2023	Till date

Research Experiences: 15 years

Area of Researches: *Ecology (terrestrial/aquatic)/Environmental Science, Algal Ecology, Biodiversity Conservation, Nutrient dynamics studies (terrestrial and aquatic ecosystems), Water Pollution Studies, Ecosystem Analysis (Soil and Water analysis), Riparian Forest Ecology.*

4. Publications: (4 books, 8 chapters in edited books, 3 proceeding, 37 research papers in referred journals, 6 full length articles)

5. Membership/Fellowship in Professional/Institutional/Academic Bodies:

1. Indian Science Congress in the section Environmental Science (Life Member)
2. INTECOL
3. Member of Bioinformatics Centre, NU, Lumami
4. Member of BPGS, Department of Botany, NU, Lumami.
5. Member of School Board.
6. Member in admission committee of M.Sc entrance test and Ph.D.
7. Departmental Research Committee member.
8. Library Books Purchase Committee member of Lumami Campus, NU.
9. Departmental Representative of IQAC
10. Departmental NAAC Co-ordinator for School of Sciences, N.U., Lumami
11. Member of the School Board of Sciences, N.U., Lumami w.e.f 15.06.2023 to 14.06.25

Awarded:

- **Young Scientist Award** on best paper presentation entitled “**Nutritional composition of edible *Lemanea australis* Atkins (Lemaneaceae, Rhodophyta) from Manipur river system, India**”. In National Conference on “**Current Scenario on Global Challenges in Germplasm Conservation and Biodiversity**” held during 7-8th July, 2010. Organized by PGTD of Botany, RTM University, Nagpur.
- **Best paper award** in University of Engineering and Management, Kolkata held on 07-07-2010

12. Completed/Undergoing/Consultancy Project

Completed Project

1. Major Research Project sponsored by UGC on the topic “**Assessment of Riparian vegetation diversity and its influences on water quality in different land use practices along Doyang River basin, Nagaland**”. As Principle Investigator (PI) of

the project with total amount sanctioning Rs. 14.5 Lakhs. **In the section: Environmental Science.** For three years (01-07-2015 to June, 2018).

2. **Exploration of microbial resources from ecological niches of North East India. Phase II. As Co-PI.** Sponsored by DBT, amount sanctioned Rs. 27.104 Lakhs. For three years (27.02.2017 to Feb, 2020).
3. **Collection, evaluation, documentation and conservation of banana genetic resources from north eastern region.** Sponsored by DBT-NER, amount sanctioning 22.50 Lakhs, for 3 years and 6 months **as PI** (22nd March, 2018 to 21.09.2021).

Consultancy Project

1. Selected as **member** of the “*Jal Abhyaaranya*” (Water Sanctuary) Programme carried out at Kiphire district, Nagaland. Sponsored by MoEF & CC, Govt. of India. Amount sanctioned = **Rs. 1,25,760.00**

13. Ph. D Supervision:

Ph. D thesis awarded

1. **Mr. Devlin Leishangthem:** Regd. No. 683/2015 dated May 27th, 2015 under the topic entitled “*Ecological assessment of riparian forest in certain zones along the Dikhu river in Nagaland, India*”.
2. **Mr. Akumtoshi Lkr:** Regd. No. 719/2016 dated 06.08. 2015 under the topic entitled “*Studies on riparian vegetation diversity and its relationship with soil and water characteristics of Doyang river, Wokha, Nagaland*”.
3. **Mr. Khikeya Semy.,** Regd. No. Ph. D./BOT/00072 dated 29/8/2017 under the topic entitled “*Ecological studies on the affected and non-affected forest in coal mining areas of Changki in Mokochung district, Nagaland*”.
4. **Mr. Watitemjen.,** Regd. No. Ph. D/BOT/00158 dated 18/8/2018 under the topic “*Agro-ecological studies on two selected Musa cultivars planted in cultivated and abandoned jhum land of Mokochung District, Nagaland*”.

Ph. D undergoing:

1. **Ms. Sevievino Catherine Chasie.,** Regd. No. Ph.D/BOT/00369 dated 30/11/2020 under the topic “*Studies on the effects of coal mine wastes on herbaceous riparian plants found along Tsurang River, Nagaland (India)*”.
2. **Ms. Watilemla.,** Regd. No. No.Ph.D/BOT/00372 dated 30/11/2020 under the topic “*Study on the pollution status of Dhansiri river in North-East India.*”

Supervision in M. Sc. Dissertation

- Supervised 35 M. Sc (Botany) students for P.G. Dissertation

Sl. No.	Dissertation Topic	Name of the Student	Roll No.	Year of Award
1	Pollution studies on Dhansiri river, Dimapur, Nagaland	Miss L. Limaienla Aier	M. Sc (Botany)	2016
	Studies on water quality of the Milak river, Mokokchung, Nagaland	Mr. WatiTemjen	M.Sc (Botany)	2016
3	Assessment of soil organic carbon and organic matter on three different land use in Zaphumi, Zunheboto District	Mr. S. Towang Konyak	M.Sc (Botany)	2016
4	Effect of <i>Tithonia diversifolia</i> (Hemsly) A. Gray on soil physico-chemical properties	Miss Neitsizonuo Theunuo	M.Sc (Botany)	2016
5	Assessment of soil respiration and abiotic environmental factors in Pine plantation at Atoizu, Zunheboto district, Nagaland	Miss Vinokali Chishi	M.Sc (Botany)	2017
6	Studies on soil respiration in Rubber plantation of Yongam Village, Longleng, Nagaland	Miss Laphin A Phom	M.Sc (Botany)	2017
7	Assessment of soil respiration and physico-chemical properties of soil in <i>Dendrocalamus giganteus</i> Munro plantation from Khensa village, Mokokchung district, Nagaland	Miss Palevinou Kesiezie	M.Sc (Botany)	2017
8	Estimation of forest floor biomass and physico-chemical properties of soil in Teak plantation of Lumami, Zunheboto, Nagaland	Nukshisongla. Leden	M.Sc (Botany)	2018
9	Studies on patterns of litterfall production and	Toino K. Sumi	M.Sc (Botany)	2018

	decomposition in Teak plantation site of Lumami village, Zunheboto, Nagaland			
10	Assessment of forest floor biomass and physico-chemical properties of soil in Pine plantation of Lumami, Zunheboto, Nagaland	Limajungla S Ozukum	M.Sc (Botany)	2018
11	Studies on patterns of litterfall production and litter decomposition rate in Pine plantation of Lumami, Zunheboto, Nagaland	Loyibeni Y. Tungoe	M.Sc (Botany)	2018
12	Study on altitudinal variation in soil physico-chemical properties of the Dikhu riparian zone, Nagaland	Mr. Robert Konthoujam	M.Sc (Botany)	2019
13	Regeneration capacity of woody trees along an altitudinal zonation of the riparian forest of Dikhu river, Nagaland.	Jandemo Ovung	M. Sc (Botany)	2019
14	Seasonal variation in water quality of Dikhu river, Nagaland	Miss Imnajungla	M. Sc (Botany)	2019
15	Comparative study of herbaceous diversity along the three riparian zones of Dikhu river, Yachem, Longleng, Nagaland	Sangtemkokla Phom	M. Sc (Botany)	2019
16	Qualitative study of spring water in Phek district of Nagaland	Mr. Mewekhro Mero	M. Sc (Botany)	2020
17	Qualitative study of spring water in Noklak district of Nagaland	Mr. Jeolam	M. Sc (Botany)	2020
18	Qualitative study of spring water in Dimapur district of Nagaland	Miss Zhulika Aye	M. Sc (Botany)	2020
19	Study on herbaceous ecotonal species diversity along banks of the Dzucha river, Kohima, Nagaland	Mr. Khrielietuo Keretsu	M. Sc (Botany)	2021
20	Documentation and identification of invasive species in Mokokchung	Miss Aosenla Jamir	M. Sc (Botany)	2021

	town, Nagaland			
21	Testing of pond water in Lumami, Zunheboto, Nagaland	Mr. K. Hiamphai Khiamniungan	M. Sc (Botany)	2021
22	Study on microclimate in upland and lowland forest site in Tuli under Mokokchung of Nagaland, India	Miss Zuluinla	M. Sc (Botany)	2021
23	Documentation and preparation of Zutho and Kimi and Mark wine by tribes of Nagaland	Miss Sunepmenla	M. Sc (Botany)	2021
24	Soil testing in an institutional campus of Lumami, Nagaland University	Miss Bendangsenla Jamir	M. Sc (Botany)	2021
25	Documentation on some sets of descriptors of wild <i>Musa</i> species from Sungratsu village, Mokokchung, Nagaland	Miss Nungsangkoka	M. Sc (Botany)	2022
26	Documentation on wild edible fruits and vegetables from the local market of Zünheboto, Nagaland	Miss Linoto O Yeptho	M. Sc (Botany)	2022
27	Documentation on some sets of descriptors of wild <i>Musa</i> species from Longsa village, Mokokchung Nagaland	Miss Imlikala	M. Sc (Botany)	2022
28	Documentation on some sets of descriptors of wild <i>Musa</i> species from Wokha district, Nagaland	Miss Myingthunglo N Humtsoe	M. Sc (Botany)	2022
29	Documentation on invasive and non-invasive plant species found along the roadside of Dimapur, Nagaland	Miss Akani A. Aye	M. Sc (Botany)	2022
30	Documentation on some set of descriptors of two <i>Musa</i> species from Wokha district, Nagaland	Miss Yansaroni M Murry	M. Sc (Botany)	2022
31	Comparative study of biomass for herbaceous	Miss Watijungla	Roll no. 21MSBT28	2023

	species along the disturbed and undisturbed riparian zone of Dikhu river, Nagaland	Jamir;		
32	Distribution of invasive plant species along the riparian zone of Dikhu river, Mokokchung, Nagaland	Miss Mongngam Konyak	21MSBT16	2023
33	Comparative study of herbaceous riparian diversity between disturbed and undisturbed riparian zone of Dikhu river, Mokokchung, Nagaland.	Miss Renoka Kachumi	21 MSBT26	2023
34	Comparative study of soil respiration in <i>Musa cheesmanii</i> and <i>Bambusa tulda</i> growing along the riparian zone of Dikhu river, Mokokchung, Nagaland	Miss Watisangba Aier	21MSBT21	2023
35	Soil properties in two different vegetations along riparian zone of Dikhu river near Longsa village, Mokokchung district, Nagaland.	Miss Imliwapang Jamir	21MSBT19	2023

Member of Editorial Board in Journal:

1. International Journal “*Acta Naturalis Scientia*”, Publisher Thomson Ltd. Zilina, Slovakia.
2. “*International Journal of Ecology and Environmental Science*”, Publisher: Bioinfo Publication, DOI: 10.9735/0976-9900.
3. *International Journal of Environmental Monitoring and Analysis*. ISSN: 2328-7659 (Print); ISSN: 2328-7667 (Online).
4. *International Journal of Creative Research Thoughts*, An international Open Access Journal, ISSN: 2320-2882.

14. Reviewed in Referred Journal:

1. Reviewed a manuscript entitled “**Chemical composition of *Padina fernandeziana* (Phaeophyceae, Dictyotales) from Juan Fernandez Archipelago, Chile**” for the “**Indian Journal of Geo-Marine Sciences**”, National Institute of Science Communication and Information Resources, CSIR, New Delhi.
2. Reviewed a manuscript entitled “**Spatial correlation between physico-chemical parameters, plankton abundance and diversity in River Ogun, South Western Nigeria**” for the “**International Journal of Water Resources and Environmental Engineering**”. ISSN: 2141-6613; DOI: 10.5897/IJWREE.
3. Reviewed a manuscript entitled “**Physico-chemical and microbiological quality assessment of bottled water vended in some selected states of Nigeria**” for the **Journal of Scientific Research and Reports**. ISSN: 2320-0227.
4. Reviewed a manuscript entitled “**Assessment of physico–chemical parameters of Tsaeda Agam river in Mekelle city, Tigray, northern Ethiopia**” for the Journal “**The Chemical Society of Ethiopia**”.

15. **Paper presented/Participated in Conferences:** 3 International, 11 national

16. **Workshop/Training Participated:** 9 nos.

17. **Short term course:** 4 nos.

18. **Orientation/Refresher Course:** 3 Orientation course, 3 refresher course

19. Journal Published:

(a) Referred Journal

1. **M. Romeo Singh** and Asha Gupta. (2006). Cultivation and Conservation of *Euryale ferox* Salisb in Manipur. *Indian Journal of Traditional Knowledge*. 5(1):143-144. ISSN: 0972-5938
2. **M. Romeo Singh** and Asha Gupta. (2007). Home gardens of Kakching, Manipur- A diverse and sustainable agroecosystem. *Journal of Economic and Taxonomic Botany*. 31(2):402-410. ISSN:2050-9768
3. Asha Gupta, L. Usharani., K. Binita and **M. Romeo Singh**. (2008). Litter fall and nutrient release from a sub-tropical forest of Manipur. *Journal of Tropical forestry*. (iii & iv): 23-27. ISSN: 0970-149.

4. **M. Romeo Singh** and Asha Gupta. (2009). Water quality status of Iril River, Manipur. *Journal of Current Science*. 14 (1): 173-180. ISSN: 0972-6101.
5. **M. Romeo Singh** and Asha Gupta. (2009). Medicinal aspects of family Lauraceae in Manipur. *Flora and Fauna*. 15 (2): 203-210. ISSN: 0971-6920.
6. **M. Romeo Singh** and Asha Gupta. (2010). Inventory of wetland plant diversity from Manipur with emphasis on species utilization spectrum. *Pollution Research*. 29 (1): 13-19. ISSN: 0257-8050.
7. Beeteswari Kh., **M. Romeo Singh** and Asha Gupta. (2009). Studies on the life form and biological spectrum of macrophytes in Kongba River, Manipur. *Indian Journal of Environment and Ecoplanning*. 16(2-3): 475-480. ISSN: 0972-1215.
8. Beeteswari Kh., **M. Romeo Singh** and Asha Gupta. (2009). Floristic distribution and growth form analysis of macrophytes in Kongba River, Manipur. *Pleione*. 39(2): 179-185. ISSN: 0973-9467.
9. **M. Romeo Singh** and Asha Gupta. (2010). Seasonal variation in certain physico-chemical parameters of Imphal, Iril and Thoubal Rivers from Manipur River systems, India. *Ecology, Environment and Conservation*. 15(3): 197-207. ISSN: 0972-3005.
10. **Singh, M.R.**, Gupta, Asha and Beeteswari, KH. (2010). Physico-chemical properties of water samples from Manipur river system, India. *Journal of Applied Sciences and Environmental Management*, Nigeria. 14(4) 85-89. ISSN: 1119-8362.
11. **Singh, M.R** and Gupta, Asha. (2010). Morphological characteristics of rare and endangered species of *Lemanea* (Rhodophyta) from the rivers of Manipur, North-East India. *The Botanique*. 14(2): 47-54. ISSN: 0257-800X.
12. Asha Gupta and **M. Romeo Singh**. (2010). Nutrient content in fresh water red algae (Lemaneaceae, Rhodophyta) from rivers of Manipur, north-east India. *Electronic Journal of Environment Agriculture and Food Chemistry*, Spain. 10(5): 2262-2271. ISSN: 1579-4377.
13. **M. Romeo Singh** and Asha Gupta. (2015). "Spatial-Temporal Variation in Physico-Chemical properties of sediments from the Rivers of Manipur, Northeast, India". *Pollution Research*. 34 (2): 401-408. Copyright © EM International. ISSN 0257-8050.
14. **M. Romeo Singh** and N. Theunuo. (2017). Variation of soil pH, moisture, organic carbon and organic matter content in the invaded and non-invaded areas

- of *Tithonia diversifolia* (Hemsl.) A. Gray found in Nagaland, north-east India. *Pollution Research*. 23 (4): 2181-2187.
15. Akumtoshi Lkr., **Singh, M.R.** and Neizo Puro. (2017). Biological spectrum of riparian plant communities in and around Doyang Hydro Electric Dam. *Nagaland University Research Journal*. 10:129-137. © The Registrar, Nagaland University. ISSN: 0973-0346.
 16. Temjen, W and **Singh, M.R.** (2018). Analysis of some selected physico-chemical properties of water from Milak River, Mokokchung, Nagaland. *Pollution Research*. 37 (1): 200-207.
 17. Devlin, L and **Singh, M. R.** (2018). Tree Diversity, Distribution and Population Structure of a Riparian Forest from Certain Zones along the Dikhu River in Nagaland, India. *Journal of Forest and Environmental Science*. 34 (1): 31-45.
 18. Khikeya Semy and **Singh, M. R.** (2019). Assessment on the water quality of Tsurang river, Nagaland affected by coal mining drainage. *Indian Journal of Ecology*. 46 (4): 845-849.
 19. Akumtoshi Lkr., **Maibam Romeo Singh** and Neizo Puro. (2020). Assessment of water quality status of Doyang River, Nagaland, India, using Water Quality Index. *Applied Water Science*. 10:46-58. ©Springer; **IF=5.411**
 20. Khikeya Semy and **Maibam Romeo Singh**. (2021). Quality assessment of Tsurang River water affected by coal mining along the Tsurangkong Range, Nagaland, India. *Applied Water Science*. 11:115-125. ©Springer; **IF =5.411**
 21. Khikeya Semy., M. R. Singh, Nishant VATS. (2021). Evaluation of soil quality of a coal mine affected forest at Changki, Nagaland, India. *Journal of Environmental Engineering and Landscape Management*. 9(4): 381–390; **IF = 1.373**
 22. Lydia Yeptho., Tali Ajungla., Asangla Kichu and **Maibam Romeo Singh**. (2020). Ethnic food habits of the Sumi tribe, Nagaland, India. *Current Science*. 119(4):708-712; **IF =1.169**
 23. Maqbul Hussain., Latonglila Jamir and **Maibam Romeo Singh**. (2021). Assessment of physico-chemical parameters and trace heavy metal elements from different sources of water in and around institutional campus of Lumami,

Nagaland University, India. *Applied Water Science*. 11:76-96. ©Springer; **IF =5.411**

24. Khikeya Semy; **Maibam Romeo Singh**. (2021). Comparative assessment on the physicochemical properties of coal mining affected and non affected forest soil at Changki, Nagaland. *Indian Journal of Ecology*. 48 (1): 36-42.
25. Devlin Leishangthem and **Maibam Romeo Singh**. (2021). Litterfall production pattern and leaf litter decomposition rate from three dominant tree species found in a subtropical semi evergreen riparian forest of Dikhu river, north east India. *International Journal of Ecology and Environmental Sciences*. 3 (1): 185-196.
26. Devlin Leishangthem and **Maibam Romeo Singh**. (2021). Physico-chemical properties of riparian soil along the three zones of the Dikhu river, Nagaland, north-east India. *International Journal of Ecology and Environmental Sciences*. 3(1): 293-300.
27. W, Temjen., **M.R. Singh**., T, Ajungla., K.Z, Chophi and K, Semy. (2021). Fungal diversity and physicochemical parameters of rhizospheric soil from banana plantation sites at Nagaland, India. *Agricultural Science Digest*. **DOI: [10.18805/ag.D-5274](https://doi.org/10.18805/ag.D-5274)**
28. Temjen W., **Singh M. R.**, Ajungla T and Imlimenla J. (2021). The Effect of Land Use on Soil Quality at Mokokchung District, Nagaland, India. Proceeding of the International Conference On Recent Trends In Engineering & Technology (ICRTET-2021), 12-13 March 2021. Pp. 219-229. ISBN No.- 978-93-5457-263-0
29. Wati Temjen., **Maibam Romeo Singh** and Tali Jungla. (2021). Impact of fallow on soil health in Mokokchung district, Nagaland, India. *Journal of Environmental Engineering and Landscape Management*. <https://doi.org/10.3846/jeelm.2021.15831>; **IF = 1.373**
30. Devlin Leishangthem and **M. Romeo Singh**. (2022). Potential of nutrient input and release from decomposing leaf litter of three dominant tree species found in a subtropical semi evergreen riparian forest

of Dikhu river, Nagaland, India. *Eco. Env. & Cons.* 28 (May Suppl. Issue): pp. (S634-S641). ISSN 0971–765X

31. Akumtoshi Lkr., **M.R.Singh** and Neizo Puro. (2022). Spatio-temporal influence on river water chemistry of Doyang river, Nagaland, India, using multivariate techniques. *International Journal of Environmental Science and Technology*. **Springer**, ISSN: 1735-1472; **IF =3.519**
32. Khrielietuo Keretsu., **Maibam Romeo Singh** and Wati Temjen. (2022). Herbaceous Riparian Ecotonal Species along the Dzücha River, Kohima, Nagaland and Their Ethnomedicinal Uses. *Agriculture Science Digest*. 10.18805/ag.D-5558
33. Wati Temjen., **Maibam Romeo Singh** and Tali Ajungla. (2022). Effect of shifting cultivation and fallow on soil quality index in Mokokchung district, Nagaland, India. *Ecological Processes*.11:42. **Springer**. <https://doi.org/10.1186/s13717-022-00386-w>; **IF =4.394**
34. Khikeya Semy., **M. R. Singh.**, Maongkala Walling., Wati Temjen., Abhishek Jangir and Gaurav Mishra. (2022). Qualitative Soil Assessment of Coal Mine Disturbed and Undisturbed Tropical Forest in Nagaland, India. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* **Springer**. <https://doi.org/10.1007/s40011-021-01343-A>; **IF =0.282**
35. W. Temjen., **M. R. Singh** and T. Ajungla. (2022). Carbon sequestration potential of two *Musa* cultivars from Mokokchung, Nagaland, North East India. *Current Science*. 123(7): 925-927. doi: 10.18520/cs/v123/i7/925-927; **IF =1.169**
36. Khikeya Semy and **M. R. Singh.**, Wati Lemla and Wati Temjen. (2022). Seasonal Variation of Soil Quality in a Semi-deciduous Northern Tropical Forest of Nagaland, India. *Applied Biochemistry and Biotechnology*. **Springer**. <https://doi.org/10.1007/s12010-022-04106-0>; **IF =3.094**
37. Khikeya Semy., **M. R. Singh.**, Ruokuonuo Kuotsu., Laphin A. Phom., Vinokali Chishi and Pelevinuo Kesiezie. (2023). Changes in Soil and Weather Variables at Diferent Plantation Forests in Nagaland, India. **Springer**. *Proc. Natl.*

Acad. Sci., India, Sect. B Biol. Sci. <https://doi.org/10.1007/s40011-023-01468-1>;

IF =0.282

- 38.** Khikeya Semy and **Maibam Romeo Singh.** (2023). Changes in plant diversity and community attributes of coal mine affected forest in relation to a community reserve forest of Nagaland, Northeast India. *Tropical Ecology.* <https://doi.org/10.1007/s42965-023-00310-z>; **IF = 1.333**

20. Books Published:

1. Asha Gupta and **Romeo Singh Maibam.** (2012). Lemanea in Lotic Environment of Manipur, North-East India: distribution, Ecology and Need for Conservation of Lemanea. LAMBERT Academic Publishing, Germany. ISBN: 978-3-8484-2407-8. 69 Pp.
2. **Romeo Singh Maibam.** (2012). Assessment of water and Sediments in Rivers of Manipur, India; Need for Management. LAMBERT Academic Publishing, Germany. ISBN: 978-3-659-16351-7.103 Pp.
3. Rajkumar Chingkei and **Romeo Singh Maibam.** (2012). Land use and land Cover studies in microwatershed: A remote Sensing and GIS Approach. LAMBERT Academic Publishing, Germany. ISBN: 978-3-659-23200-8. 63 Pp.
4. **M. Romeo Singh** and N. Theunuo. (2018). Changes in soil characteristics and plant diversity: Effects on the growth of an invasive plant *Tithonia diversifolia*. LAMBERT Academic Publishing, Germany. ISBN: 978-613-9-86170-5.

21. Publication in Proceedings of the Seminar:

1. Asha Gupta., Beeteswari Kh and **M. Romeo Singh.** (2010). Seasonal variation in nutrients of lotic sediment from Manipur, north-east India. Pp: 44-49. *Proceedings of the National Seminar on "Environmental stress impacts on plants"*. Organized by Post-graduate Department of Botany, Utkal University, Bhubaneswar. 12th March, 2010.

2. **M. Romeo Singh** and Asha Gupta. (2011). Factors affecting the occurrence of Lemanea, Rhodophyta from the Rivers of Manipur, North-East India. In book *Advances in Environmental Chemistry*, edited by Dr. Diwakar Tiwari. Excel India Publishers, New Delhi. 233-237 p.
3. Devlin Leishangthem and **Maibam Romeo Singh**. (2020). Tree Diversity in Riparian Forest from Certain zones along Dikhu river in Nagaland, North-East India. In book '*Perspective on Biodiversity of India ;In book Perspective on biodiversity of India*, Edited by Biju Kumar, A., Krishnan, P.N., Pandurangan, A.C., Peethambaram, C.K and Sureshkumar, C. Centre for Innovation in Science and Social Action, Thiruvanthapuram, Keral, India. ISBN: 9788192989600 8192989607; 2020; (IV): 31-38.

22. Chapters in Books Published:

1. Asha Gupta and **M. Romeo Singh**. (2013). Floristics and Productivity Studies of Macrophytes from Few Water Bodies of Manipur, North-East India. In book *Biodiversity and Utilization*, edited by Dr. Asha Gupta. Pointer Publishers, India. ISBN: 978-81-7132-736-2.
2. **M. Romeo Singh** and Asha Gupta. (2014). Biomass and Productivity study of red alga from rivers of Manipur, North-east India. In book *Ecoplanning, Biodiversity and Climate Change* edited by Dr. Asha Gupta. Pointer Publishers, India. ISBN: 9788171327638.
3. **M. Romeo Singh** and Asha Gupta. (2017). Water Pollution: causes, effects and control measure. "In book "*Water Pollution: Assessment Modelling and Management*" edited by Asha Gupta. Pointer Publishers, Jaipur, India. ISBN: 9788171328444.
4. Asha Gupta and **Maibam Romeo Singh**. (2019). Medicinal and nutritional aspects of Lemanea from the rivers of Manipur. In book '*Medicinal plants: Exploration, evaluation and Utilization*' Edited by Asha Gupta. ISBN: 978-81-7132-910-6; Pp. 42-53.
5. W, Temjen and **M.R. Singh**; T, Ajungla and A. Kichu. (2021). Fungal population of rhizospheric soil from banana plantation site at Mokokchung district, Nagaland, India. In book '*Bioresources and sustainable livelihood of rural India*'. Edited by Chitta

Ranjan Deb and Asosii Paul. Mittal Publication, Darya Ganj, New Delhi. ISBN: 9789390692576; Pp. 330-340.

6. Khikeya Semy and **Maibam Romeo Singh**. (2021). Correlations studies among the water physicochemical properties of Tsurang river, Nagaland. In book '*Bioresources and sustainable livelihood of rural India*' Edited by Chitta Ranjan Deb and Asosii Paul. Mittal Publication, Darya Ganj, New Delhi. ISBN:9789390692576; Pp. 127-136.

23. Full Length Articles Published:

1. Asha Gupta and **M. Romeo Singh**. Ozone layer and its preservation. *In souvenir of national seminar on "Recent advances in Life Sciences*. Organized by Department of Life Sciences, Manipur University and sponsored by UGC under SAP. Pp: 53-56.
2. **M. Romeo Singh**. (2013). "Bamboo: Potential source of Carbon Sequestration" *Botanica*. Vol. 1 Annual Magazine, Publish by Botanical Society Department of Botany, Nagaland University, Lumami.
3. **M. Romeo Singh**. (2014). "Effects of Climate Change on Ecosystems and Ecosystem Services" in the 11 Annual Magazine. "The Pulse" PGSU, Nagaland University, Lumami.
4. **M. Romeo Singh**. (2014). "Environmental Science: An overview". *Botanica* Vol. 2 Annual Magazine, Publish by Botanical Society Department of Botany, Nagaland University, Lumami.
5. **M. Romeo Singh**. (2017). Riparian vegetation in influencing the chemical properties of river water quality. In the souvenir article of International conference on natural resources management and technology trends (ICNRM-2017) held on 27th -29th March, 2017. Organized by Centre of Advanced Study, Department of Life Sciences, Manipur University, Canchipur.
6. **M. Romeo Singh**. (2017). Relationship between biodiversity and functioning of ecosystem. *Botanica* Vol. 2 Annual Magazine, Publish by Botanical Society Department of Botany, Nagaland University, Lumami.

24. Participation and presentation of research papers (oral/poster) in-

(a) International Conference

1. Presented a paper entitled **“Home gardens of Kakching, Manipur- a diverse and sustainable agroecosystem”** in International symposium on- “Recent Trends in Plant Ecology and Biodiversity Research” held during 20-22 May, 2004. Organized by the Department of Botany, NEHU, Shillong, India.
2. Presented at paper entitled **“Factors affecting the occurrence of *Lemanea*, Rhodophyta from the Rivers of Manipur, North-East India”** in International Conference on Advances in Environmental Chemistry (AEC 2011) held during 16-18th November, 2011. Organized by Department of Chemistry, Mizoram University, Mizoram, India.
3. Presented a paper entitled **“Litter production from three dominant riparian forest tree species found in Dikhu river of Nagaland”** in International Conference on Natural Resources Management and Technology Trends (ICNRM-2017). Organized by Centre of Advance Study, Department of Life Sciences, Manipur University, held on 27th -29th March, 2017.

(b) National Conference

1. **Presented** a paper entitled **“Inventorization of wetland plants from Manipur valley with a note on utility spectrum and diversity indices”** in national seminar on - “Fishery, Aquatic Bioresources and Sustainable Development (NASFAB)”, held during 28-29 January, 2005. Organized by the Department of Life Sciences, Manipur University and Sponsored by UGC Special Assistance Programme.
2. Participated in national Seminar on- **“Radiation and Societal Development”** at Manipur University held on 4th November, 2006. Organized by Study Forum for Advanced Technology (SFAT), N.E India, under Department of Atomic Energy, Govt. of India.
3. **Presented** a paper entitled **“Medicinal aspects of Lauraceae family found in Manipur”** in national conference on-“Emerging Trends in Medicinal Plants and their Biotechnological Advances” held during 5-6th, January, 2007. Organized by the Department of Botany, Dr. Ambedkar College, Deeksha Bhoomi, Nagpur, India.
4. **Presented** a paper entitled **“Trends in Life form, Diversity and Productivity of macrophytes from few lentic water bodies of Manipur”** in National Conference on –

Biodiversity, Conservation and Sustainable Development, held during 7-9th January, 2008. Organized by P.G Department of Botany, RTM, Nagpur University, Nagpur.

5. **Presented** a poster entitled “**Pollution studies on the Iril river, Manipur, India**” in the section of Environmental sciences. In 96th Indian Science Congress, 2009, held during 3-7th January, 2009 at NEHU, Shillong.

6. **Presented** a paper entitled “**Nutritional composition of edible *Lemanea australis* Atkins (Lemaneaceae, Rhodophyta) from Manipur river system, India**”. In National Conference on – “Current Scenario on Global Challenges in germplasm conservation and biodiversity”, held during 7-8th July, 2010. Organized by PGTD of Botany, RTM University, Nagpur.

7. **Presented** a paper entitled “**Assessing Water Quality Index (WQI) from lotic system of Manipur, North-East India**” in the national symposium on “Biodiversity status and conservation strategies with special reference to north-east India” held during 17th-18th March, 2011. Organized by Department of Life Sciences, Manipur University.

8. **Presented** a paper entitled “**Carbon accumulation in the freshwater red algae *Lemanea* from the rivers of Manipur**” in the National seminar on “**Carbon Sequestration in Terrestrial and Aquatic ecosystems**” held on 24-25, February, 2012 at the Department of Life Sciences, Manipur University. Sponsored by SAP, UGC, New Delhi.

9. **Presented** a paper entitled “**Ecology of *Lemanea fluviatilis* (Linne) C. Agard in Thoubal River, N-E India**”, YETI, 17th -19th Dec, 2013.

10. **Presented** a paper entitled “**Factors affecting biomass and productivity of *Lemanea* from rivers of Manipur, North-East India**” in Regional Science Congress, North-Eastern Region. Jointly organized by ISCA-Imphal Chapter & Manipur University, held on 30th to 31st Dec, 2013.

11. Presented a paper entitled “**Biochemical composition of the edible freshwater red algae *Lemanea* from the rivers of Manipur, NE, India**”. In National Seminar on Globalization Development and Environment with the Special reference to Northeast, India. Organized by NUTA, Nagaland University, Lumami held on 19th March to 20th March, 2015.

(c) Regional/state level

1. **Presented** a paper entitled “**Nutrients in precipitation in open plots at Imphal, Manipur**” in Environment Congress, 2005 held during 16-17 December, 2005. Organized by Department of Earth Science, Manipur University and Sponsored by Ecology wing, Government of Manipur, Porompat.

2. **Presented** a paper entitled “**Need for conservation of rare and endangered species of *Lemanea* (Rhodophyta) from the rivers of Manipur, India**” in the **young scientist category** of two days Seminar on “**Science for shaping the future of India**”. Organized by the Indian science Congress Association- Imphal Chapter on 27-28 August, 2012 at Manipur University.

(d) Local University/College level

1. **Presented** a paper entitled “**Acid rain – a potential threat to environment in Manipur**” in seminar on-“The Water Resource Management in N.E India”, held on 27th March, 2004. Organized by Department of Geography, Manipur University and sponsored by Indian Institute of Public Administration, Manipur Branch.
2. **Presented** a paper entitled “**Lake restoration strategies- a review**” in XI Manipur Science Congress, 2008, held during 28-30th March, 2008. Organized by School of Sciences, Manipur University.
3. Participated in two day seminar on- “**The present scenario of medicinal plants in Manipur with particular reference to anti-cancer plants**”, held during 24-25 July, 2008. Organized by Manipur University Research Club, Manipur University.
4. Participated in conference on- “**Integrating IPR culture with Research and Development in Life Sciences**” held during 23-25th September, 2008. Organized by Modern College, Government of Manipur and sponsored by UGC.
5. Participated in 4th National Seminar on – “**Human Development and Environment & Common Property**”, held during 9-10th June, 2010. Organized by Manipur Economic Association & Economic Department, Manipur University.
6. Participation in the National Seminar by Indian Science Congress, Imphal Chapter held on 21st to 23rd January 2015 on the theme on Science and technology for Human Development Organized by Manipur University.

Invited Lecture:

1. Title "Environment, Human Health and Society" at SWACHHTA PAKHWADA 2021 organized by EBSB & UBA Cells, Manipur University held on 09.09.2021.
- 25. Participation in workshop/ training/ Refresher/Orientation/Short term courses etc.**

(a) Workshop/Training Participated:

1. Participated training on- **“Biotechnology tools for the Conservation and Sustainable Utilization of Bioresources”** held during 25-26 June, 2004. Organized by Institute of Bioresources and Sustainable Development (IBSD), Department of Biotechnology, Govt. of India, Imphal.
2. Participated workshop on- **“Wildlife Rehabilitation”** held during 12-13th October, 2006. Organized by Wildlife Trust of India (WTI), in partnership with International Fund for Animal Welfare (IFAW).
3. State level workshop cum training on-**“Traditional Healing Practices in North-East India”** held on 14th December, 2008. Jointly Organized by Department of Life Sciences, Manipur University, North Eastern Institute of Folk Medicine, Pasighat, Arunachal Pradesh and sponsored by Department of AYUSH, Ministry of Health and Family Welfare, Government of India.
4. Participated three days workshop on- **“Application of Computers in Libraries”** held during 24-26th March, 2010 at Manipur University. Organized by Manipur University Library and sponsored by National Library, Kolkata.
5. Participated in two days Science Academies sponsored workshop on **“Recent Advances in Biology”** during 28th -29th March 2011. Organized by Department of Biochemistry, Manipur University jointly with MRDG, Indian Institute of Science, Bangalore.
6. Participated in two day national workshop on **“Computational and System Biology”** held during 30th-31st March 2011 at the Centre for Bioinformatics Infrastructure Facility, Department of Life Sciences, School of Life Sciences, Manipur University and sponsored by Department of Biotechnology, Govt. of India, New Delhi.
7. Participated in **one week** workshop on **“Question Setting and Evaluation Workshop”** held during 1-7th November, 2011. Organized by Imphal College, Imphal and sponsored by UGC & Directorate of Higher and Technical Education, Manipur.
8. Participated in one day workshop on **“Manipur MapUp”** held on 22nd October, 2012. Co-sponsored by Google India, Hyderabad & KEN, Manipur. Organized jointly by Bioinformatics Infrastructure facility, LSD; M.U & MIMS, M.U.
9. Participated in the **two weeks** workshop on **“Faculty Development Programme in Research Methodology & Modern Pedagogy”** held during 3rd January to 16th January, 2013 and **obtained grade A**. Organized by the AICTE Sponsored IIPC Cell, Manipur institute of Management Studies, Manipur University in collaboration with

SCERT, Government of Manipur., Institute of Bioresources and Sustainable Development (IBSD), Takyelpat, Imphal, Manipur, India.

10. Participated in the workshop and training programme on “**Standard Operating Procedures (SOPs) for the isolation and characterization of bacteria and fungi from diverse habitats**” held during July 2-3, 2018 under the project “Establishment of a Culture Collection Centre (MRC).

(b) Orientation Course attended:

1. Participated in the **UGC- sponsored Orientation programme on “Environment and Global Climate Change”**. Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal from 2-22nd March, 2009 and **obtained grade A**.
2. Participated in the **UGC- sponsored Orientation programme on “Environment, Global Warming and Pollution”**. Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal from 19thAugust-17th September, 2011 and **obtained grade A**.
3. Participated in the **UGC- sponsored 24th Orientation programme**, Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal held on 19thAugust-16th September, 2014 and **obtained grade A**.

(c) Refresher Courses attended:

1. Participated in the **UGC- sponsored Refresher Course on “Environmental Studies”**. Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal from 5-25th June, 2009 and **obtained grade A**.
2. Participated in the **UGC- sponsored Refresher Course in Life Sciences** under the theme “**Global Warming, Climate Change and Biodiversity Conservation**”. Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal from 21st January to 21st February, 2013 and **obtained grade A and best overall performance**.
3. Participated in the two weeks online Refresher Course on Life Sciences Organized by UGC-HRDC, University of Hyderabad from 13th September to 25th September, 2021 and **obtained A+ grade**.

(d) Short Term Courses Participated:

1. Participated in **UGC sponsored short term course** on “**Intellectual Property Right**”. Organized by UGC-Academic Staff College, Manipur University, Canchipur, Imphal from 27th -2nd August, 2010.
2. Participated in **UGC sponsored short term course** in “**Disaster Management**”. Organized by UGC-Academic Staff College, Manipur University, from 24th March to 27th March, 2012 and **obtained grade A**.
3. Participated in online **UGC sponsored short term course** in “**Disaster Management**”. Organized by UGC-HRDC, Jawaharlal Nehru University from 23rd August to 28th August, 2021.
4. Participated in online **UGC sponsored short term course** in “**Research and Publication Ethics**”. Organized by UGC-HRDC, Mizoram University from 1st October to 7th October, 2021.

26. Extra-curricular/Academic activities performed:

1. Completed a period of **two years as NSS volunteer** from 1996 to 1998 and also attended **NSS special Camps** from 20-12-98 to 29-12-98 and awarded an overall grade of B.
2. Appointed as **Presiding Officer** in Nagaland General Assembly, 2013.
3. **Teacher-in-charge for Academic Study tour** of M. Sc (Botany) 3rd Semester, 2014, 2015, 2017, 2020, 2023 Nagaland University.
4. Appointed as **Micro-observer** in Nagaland General Assembly in 2018 and 2023.
5. **Head-in-charge**, Department of Botany on 26th May 2023.

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