CURRICULUM VITAE

Dr. Yengkhom Tunginba Singh
Assistant Professor

Department of Botany

School of Life Sciences
Mizoram University
Aizawl-796004, India
Phone: +91-9862604012

email: tunginba@mzu.edu.in,
tungin9@yahoo.co.in

Personal Details

Present Address: T-52, Teachers' Quarter, Mizoram University, Aizawl, Mizoram-796004

Educational Qualifications

Degree	University	Year
Doctor of Philosophy (Ph. D.)	University of Delhi, Delhi	2010
M. Sc (Botany)	University of Delhi, Delhi	2004
B. Sc (Botany)	University of Delhi, Delhi	2002

Ph.D Thesis title "Study of *Antheraea assamensis* Helfer: Population Biology, Genetics and Genome"

Current Research

- Rice is the main food of the people of Northeast India with maximum percentage of people involving in agriculture and allied activities. Large part of land area is under agricultural cultivation practicing in upland, lowland and water fed areas. Although over 2000 landraces of rice are available, most of rice cultivated in the region is high yielding varieties (HYV) developed scientifically. This trend implies a possible narrowing of the natural gene pool. However, it is also surprising to know that the

farmers of the hilly areas are still practicing their own landrace cultivation that they inherit from their forefathers, which suit the local microclimate and adaptation. My main interest is exploration of genetic diversity of rice of NE India using molecular markers for better productivity.

- Another important issue is Brown Plant Hopper (BPH), which is a serious insect pest of rice. However, some rice germplasm collections and assessment from Northeast have shown the richness of the region with various resistant varieties to BPH. My interest is on molecular characterization of BPH and assessment of genetic diversity using molecular markers, from the NE region for designing effective breeding program.

Details of Previous Employments

- Post Doctoral Research Associate, PMB Group, International Centre for Genetic Engineering and Biotechnology, New Delhi, India (2010 to 2011)
- Assistant Professor of Botany, Hindu College, University of Delhi, Delhi-110007 (2009- 2010)

Professional Experience

- Member, Board of Studies, Department of Botany, Mizoram University
- Member, School Board, School of Life Sciences, Mizoram University (2015-2018)

Awards & Distinctions

- CSIR (India)- **Junior/Senior Research Fellowship** (for doctoral research) (**2004-2009**)
- UGC (India)-**Start-up grant** for newly recruited faculties (**2013**)
- DST (India)-**Young Scientist Award** (**2013**)

Professional Memberships

Life Member, Indian Science Congress Association

Academic Achievements

Research Papers Reviewed for Journals:

- Current Trends in Biotechnology and Pharmacy
- International Journal of Environmental Science and Toxicology Research

Details of Professional Trainings

- Refresher Course in Biotechnology held at JNU, New Delhi (16-07-2012 to 09-08-2012)
- Orientation course held at Mizoram University (19-06-2014 to16-07-2014)

Seminar/Symposia/Workshop Attended

- Mizoram Science Congress, Pacchhunga University College, Aizawl, Mizoram, India, 4-5th October 2018.
- National Conference on Strategies for Development of Higher Education in NE India, Mizoram University, Aizawl, India, 9-11th April 2018.
- National Seminar on Biodiversity, Conservation and utilization of Natural Resources with Special Reference to NE India, Mizoram University, Aizawl, India, 30-31st March 2017.
- Mizoram Science Congress, Mizoram University, Aizawl, India, 13-14th October 2016.
- National Symposium on Ethnobotanical Importance in NE India, Mizoram University, Aizawl, Mizoram , India, 13-15th October 2015.
- National Seminar "Molecular Biology and Biotechnology Research in NE India", Pub Kamrup College, Kamrup, Assam, India, 19-21th August 2015.

Research Projects:

S.No	Project Title	Funding Agency	Duration	Amount (Rs)	Status
1	Assessment of genetic diversity of local land races of rice of Manipur	UGC, New Delhi	2013-2015	6 Lakh	Completed
2	Assessment of genetic diversity of local land races of rice of Northeast india using SSR markers	SERB, DST, New Delhi	2013-2016	25 Lakh	Completed
3	Study of genetic diversity and population structure of Brown Plant Hopper (BPH), *Nilaparvata lugens* (Stal.) from NE India	DBT, New Delhi	2017-2020	33.89 Lakh	Ongoing

Research & Teaching Experience

Research:08 Years

Teaching: PG+Ph.D. 07 (Years)

Total Number of Publications

i) **Research Papers: 05**

ii) **Books/Book Chapters: 01**

Citation Details (as on 8/02/2019)

Google Scholar

h index 3

i10 index 2

Total Citations 37

Cumulative Impact factor: 11.957

Link for Google Scholar:

https://scholar.google.co.in/citations?user=MCPTl8sAAAAJ&hl=en

Link for ResearchGate: https://www.researchgate.net/profile/Tunginba_Yengkhom

Research Guidance:

- **Ph.D. (04 Registered)**

S. No	Students Name	Thesis Title
1	Vanlalsanga	Study of genetic diversity of selected indigenous rice varieties of Mizoram.
2	Ningthoujam Supriya Devi	Molecular and biochemical characterization of red rice (*Oryza sativa* l.) of Manipur, India
3	Sagolshem Priyokumar Singh	Responses to Zinc (zn2+) stress by selected rice (O*ryza sativa* L.) varieties of Northeast India
4	Laldinfeli Ralte	DNA barcoding of ethno-medicinal species of Solanaceae in Mizoram

Full Details of Published Papers

(A) Book/Book Chapters

1) **Singh YT (2014)** A Study of *Antheraeaassamensis*Helfer: Population biology, Genetics and Genome. Archers and Elevators Publishing House, Bangalore, India.

(B) Research Papers

1. Vanlalsanga, **Singh YT** (**2019**) Genetic Diversity and Population Structure in Upland Rice (*Oryza sativa* L.) of Mizoram, North East India as Revealed by Morphological, Biochemical and Molecular Markers Biochemical Genetics 2019; https://doi.org/10.1007/s10528-018-09901-1

2. Divya D*, **Singh YT***, Nair S, Bentur JS (**2016**) Analysis of SSH library of rice variety Aganni reveals candidate gall midge resistance genes. Functional and Integrative Geneomics, DOI 10.1007/s10142-016-0474-3. *Equal contribution

3. **Singh YT,** Mazumdar-Leighton S, Nair S (**2013**) Loktak, the largest floating lake of the world, needs restoration. Current Science, 104 (1), 10-11.

4. **Singh YT** et al. (**2012**) Genetic variation within native populations of endemic silkmoth*Antheraeaassamensis*(Helfer) from Northeast India indicates need for *In Situ* conservation. PLOS One, 7 (11): e49972. doi 10.1371/journal.pone.0049972.

5. M. Saikia, **YT Singh**, A. Bhattacharya and S. Mazumdar-Leighton (**2011**) Expression of diverse midgut serine proteinases in the sericigenous Lepidoptera *Antheraeaassamensis* (Helfer) is influenced by choice of host plant species. Insect Molecular Biology, doi: 10.1111/j.1365-2583.2010.01048.x