

FACULTY PROFILE FORMAT

1. Full Name: **Dr. Konjengbam Noren Singh**
2. Designation : **Professor (Plant Breeding & Genetics)**
3. Department/Institute/University: **School of Crop Improvement, College of Post Graduate Studies, Central Agricultural University (Imphal), Umiam-793103 (Meghalaya)**
4. Official Email ID: norensingh27@gmail.com
5. Profile photo: Please take from Establishment section (Recently taken)
6. Areas of Specialization: **Plant Breeding & Genetics as well as Seed Science & Technology**
7. Research Interests: **Crop Improvement for Rice and Pulses, Minor/underutilized crops**
8. Highest Educational Qualifications: (a). in from (b). in

S.No.	Degree	Subject	University
1.	PhD	Seed Science & Technology	BCKV, Nadia, WB
2.	M.Sc.(Agri.)	Plant Breeding & Genetics	CAU, Imphal
3.	NET(Passed), 1999	Plant Breeding	A.S.R.B., ICAR

9. Professional Experience: (a). Professor (PBG) in SCI, CAU-CPGSAS since 2016 (b). Associate Professor (PBG) since 2009 (c) Junior Plant Breeder since 2004

S. No.	Position	Organization	Duration	
			From (Date)	To (date)
1.	Professor (PBG)	College of Post Graduate Studies (CPGS), Umiam, Meghalaya (under Central Agricultural University, Imphal)	15-12-2016	Till date
2.	Deputy Director of Research	Central Agricultural University, Imphal, HQ	27-7-2011	14-12-2016
3.	Associate Professor	College of Post Graduate Studies (CPGS), Umiam, Meghalaya (under Central Agricultural University, Imphal)	02-03-2009	26-7-2011
4.	Junior Scientist(Plant Breeder)	Directorate of Research, Central Agricultural University, Imphal (Manipur)	18-08-2004	01-03-2009
5.	Research Associate	College of Agriculture, CAU, Imphal (Manipur)	05-12-2002	17-08-2004

10. Research Projects

S.	Title of Project	Funding	Budget	Duration	Status
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No.		Agency	(Rs.)		
1.	Collection, evaluation, identification and Selection of locally & widely adapted genotypes of lentil in rice fallow of Manipur valley	DST, Govt. of Manipur	84,000/-	April, 2010 for one year Completed	As Co-PI Completed
2.	Collection, evaluation and identification of hill rice (<i>Oryza sativa</i> L.) suitable for different altitudinal locations of NEH region of India	IRP (Intramural Research Project)	1,45,000/-	2010-2012	As PI Completed
3.	Improvement of Locally Adapted Rice Cultivars of North East Hill Region by Incorporating Blast Resistance Genes through Marker Assisted Backcrossing	DBT, GOI	106 lakhs	1/11/09, 5 years	As Co-PI Completed
4.	From QTL to variety marker assisted breeding of abiotic stress tolerant rice varieties with major QTLs for drought, submergence and salt tolerance.	DBT-IRRI Collaborative project	82.10 lakhs	29/9/2010, 4 years	As Co-PI Completed
5.	ICAR Seed Project, CAU, Imphal as Nodal Officer	ICAR	12.50 Lakhs	During 2011-12	As Nodal Officer Completed
6.	Improvement of locally adapted rice cultivars of North East Hill region against BLB through marker assisted backcrossing	DBT, GOI	50.67 lakhs	04/12/2012 for 3 years Completed	As PI Completed
7.	Molecular Mapping and Construction of Linkage Maps for Improving Aluminium Tolerance and Phosphorus Acquisition Efficiency in Lentil for Cultivation in Acidic Soils of North East Hill States	DBT, GOI	56.70 lakhs	11/09/2018 for 3 years plus one year extension Completed on 10-9-2022	AS PI Completed

11. Selected Publications:

Selected peer-reviewed publications:

A. In Research Journals

Sl. No.	Author/Authors	Year	Title of paper/Book or Book chapter	Journal or Book
1.	K. Noren Singh , P.R. Sharma and MRK Singh	2003	Stability analysis in Mungbean (<i>Vigna radiata</i> L. Wilczek)	<i>Res. On Crops</i> 4(1):97-103
2.	K. Noren Singh , S.K. Samanta and A.K. Basu	2004	Asymbiotic orchid seed germination with intermediate treatment in liquid culture	<i>Seed Research</i> Vol.32(1):61-64
3.	P.R. Sharma, P. Khoyumthem, N.B. Singh and K. Noren Singh	2005	Combining ability studies for grain yield & its component characters in rice (<i>Oryza sativa</i> L.)	<i>Indian J. Genet.</i> ,65(4):290-292
4.	Shabir Hussain Wani, N.B. Singh, N.G. Singh and K. Noren Singh	2007	Stability of seed yield and its component characters in Rice bean (<i>Vigna mbellata</i>) Thunb. Ohwi & Ohashi	<i>Environment & Ecology</i> 25S(4):1094-1098
5.	K. Noren Singh , S.K. Samanta, A.K. Basu and H. Jayalaxmi Devi	2008	Asymbiotic propagation of some orchids from seeds	<i>Environment & Ecology</i> 26(2A):862-866
6.	K. Noren Singh , NB Singh, PR Sharma, JM Laishram, MRK Singh and AM Devi	2008	Adaptability of lathyrus (<i>Lathyrus sativus</i> L.) under rainfed areas of Manipur valley	<i>Environment & Ecology</i> 26(3A):1218-1220
7.	Mukul Kumar, K. Noren Singh , L Jamini Devi and Ranjit Sharma	2010	Genetic variability and correlation studies among advanced lines of groundnut under agro-climatic conditions of North East Hill (NEH) Region	<i>Indian Journal of Plant Genetic Resources</i> 23(2): 185-190
8.	Bidhan Roy, S.K. Noren , Asit B. Mandal and Asit K. Basu	2011	Genetic engineering for abiotic stress tolerance in agricultural crops	<i>Biotechnology</i> 10(1): 1-22
9.	Shiv Datt, S.K. Noren , V.P.	2011	Gene action for yield and its components in soybean [<i>Glycine</i>	<i>VEGETOS</i> 24(1):89-92

	Bhadana and PR Sharma		<i>max</i> (L.) Merrill]	
10.	Shiv Datt, PR Sharma, K.N. Singh and Mukul Kumar	2011	Combining ability analysis for yield and other quantitative traits in soybean [<i>Glycine max</i> (L.) Merrill]	<i>Indian Journal of Plant Genetic Resources</i> 24(3): 352-354
11.	Sharma K.D., Mukul Kumar, Shiv Datt, K. Noren Singh and P Ranjit Sharma	2012	Estimation of genetic divergence and selection of promising genotypes for hybridization in Soybean under foot hill condition of Manipur	<i>Soybean Research</i> 10: 11-17
12.	Thiyam Rebica, Mukul Kumar, P. Ranjit Sharma, S. K. Noren and Shiv Datt	2013	Combining ability analysis for seed yield and component traits in pea under foot hills of Northeast India	<i>SABRAO Journal of Breeding and Genetics</i> 45 (2) 276-282
13.	Chulet Handerson, S. K. Noren , Tyagi Wricha, N. T. Meetei, V. K. Khanna, A. Pattanayak, Shiv Datt, P. Ray Choudhury and Mukul Kumar	2014	Assessment of genetic diversity in pea (<i>Pisum sativum</i> L.) using morphological and molecular markers	<i>Indian J. Genet.</i> , 74(2): 205-212 10.5958/0975-6906.2014.00157.6
14.	Artibashisha Hijam Pyngrope, S.K. Noren, Tyagi Wricha, Devyani Sen, V.K. Khanna and A. Pattanayak	2015	Genetic diversity analysis of blackgram[<i>Vigna mungo</i> (L) Hepper] using morphological and molecular markers	<i>International Journal of Applied and Pure Science and Agriculture(IJA PSA)</i> Vol.01(8):104-113
15.	Ng. Tombisana Meetei and K. Noren Singh	2015	Micro-Rhizome Induction In <i>Syng Makhir</i> , An Important Ginger Cultivar Of Meghalaya	<i>VEGETOS</i> Vol 28(4) Dec 2015.
16.	Rita Nongthonmbam, Kigwie Seyie, Noren Konjengbam, Brajendra Naorem and Pramesh Khoyumthem	2016	Stability analysis of high yielding varieties of black gram (<i>Vigna mungo</i> L. Hepper)	<i>Electronic Journal of Plant Breeding.</i> 22(1):1-9.

17.	Dipen N. A., V. K. Khanna and K. Noren Singh	2018	Crossability and Genetic Diversity Studies in Pea (<i>Pisum sativum</i>)	<i>Current Investigation s in Agriculture and Current Research</i> , 3(5): 1-10
18.	Bomit L., Noren S.K., and Sharma P.R.	2018	Evaluation of rice (<i>Oryza sativa</i> L.) genotypes based on Agro-morphological traits and Genetic diversity	<i>International Journal of Agriculture Sciences</i> , 10(22): 7493-7497.
19.	Paharasainiing Syiemlieh, S. K. Noren, V. K. Khanna, Mayank Rai, N. T. Meetei and A. Pattanayak.	2019	Assessment of genetic diversity of upland rice (<i>Oryza sativa</i> L.) genotypes from North Eastern Hill Region of India	<i>Vegetos</i> : doi.org/10.1007/s42535-019-00037-0.
20.	Wadbok Rani, S. K. Noren, Mayank Rai, Wricha Tyagi and V. K. Khanna	2019	Physico-chemical characteristics and nutritional quality analysis of aromatic rice (<i>Oryza sativa</i> L.) genotypes	<i>Indian Journal of Genetics and Plant Breeding</i> .: DOI: 10.31742/IJGPB.79.4.1
21.	Jyothi S.S.P., Loukham Devarani, K. Noren Singh, Ram Singh, Rajkumar Josmee Singh, L. Hemochandra, M. Kunjaraj Singh and Daya Ram	2019	Prioritization of Stakeholders in Diffusion of CAU-R Series Varieties in Manipur	<i>Economic Affairs</i> , 64(2): 271-280.
22.	Lakshmi Dhar Hatai and K. Noren Singh	2019	Socio-Economic Status and Benefits of Agricultural Interventions of Tribal Farmers in West Garo Hills of Meghalaya, India	<i>International Journal of Current Microbiology and Applied Sciences</i> ,

				8(8): 1554-1563.
23.	Samuthirapandi S., Noren Singh Konjengbam and Linthoi	2020	Molecular characterization and evaluation of a panel of aromatic mutant-M7 rice (<i>Oryza sativa</i> L.) for yield performance	<i>Indian Journal of Hill Farming</i> , 2020: 33(1): Pp 157-163
24.	Chandan Kumar Singh, Dharmendra Singh, Shristi Sharma, Shivani Chandra, Jyoti Taunk, Noren Singh Konjengbam, Deepti Singh, Arun Kumar, Upadhyaya KC and Madan Pal	2021	Morpho-physiological characterization coupled with expressional accord of exclusion mechanism in wild and cultivated lentil under aluminium stress	<i>Protoplasma</i> . DOI.org/10.1007/s00709-021-01619-z
25.	Chandan Kumar Singh, Dharmendra Singh, Jyoti Taunk, Priya Chaudhary, Ram Sewak Singh Tomar, Shivani Chandra, Deepti Singh, Madan Pal Noren Singh Konjengbam, M. Premjit Singh, Rakesh Singh Sengar and Ashutosh Sarker	2021	Comparative Inter- and Intra-Species Transcriptomics Revealed Key Differential Pathways Associated With Aluminium Stress Tolerance in Lentil	<i>Front. Plant Sci.</i> 12:693630. DOI: 10.3389/fpls.2021.693630
26.	Puthem Victoria Devi, Noren Singh Konjengbam, N. Janaki Singh, G. D. Harish, Ng. Tombisana Meetei and Devyani Sen	2021	Assessment of genetic variation in lentil (<i>Lens culinaris</i> Medik.) for its agronomic performance, aluminium tolerance and phosphorus uptake efficiency	<i>Indian J. Genet.</i> , 81(3):431-439 DOI: 10.31742/IJG PB.81.3.10
27.	J. Kumar , A. Hussain , P. Singh *, S.K.Y. Baksh , M.K. Kar , A.K. Mukherjee , N.R.	2021	Genotypic and phenotypic dissection of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> on Indica rice cultivars for bacterial blight resistance	<i>J. Environ. Biol.</i> , 42, 1578-1590 DOI :

	Singh , B. Sinha , Pramesh Kh. , N. Singh K. and J.N. Reddy			http://doi.org/10.22438/jeb/42/6/MRN-1156
28.	Reginah Pheirim, Noren Singh Konjengbam and Mayurakshee Mahanta	2022	Simple sequence repeat markers association study of powdery mildew resistance in field pea (<i>Pisum sativum</i> L.)	<i>Indian Phytopathology</i> https://doi.org/10.1007/s42360-002-00572-y
29.	Mayurakshee Mahanta, Noren Singh Konjengbam , Reginah Pheirim and Andrean Allwin Lyngdoh	2023	Assessment of Genetic Variability and Trait Association in Lentil (<i>Lens culinaris</i> Medik.) for Yield and Attributing Traits	<i>International Journal of Bio-resource and Stress Management.</i> 14(2):322-331 DOI: HTTPS://DOI.ORG/10.23910/1.2023.3369a
30.	Shelly Sanasam, S. MD Basid Ali, Noren Singh Konjengbam and Farzana Ahmad	2023	Assessment of greengram (<i>Vigna radiata</i> L. Wilczek) genotypes for Aluminium toxicity tolerance and Phosphorus Uptake Efficiency (PUE) under Hydroponic condition	<i>AMA, Agricultural Mechanization in Asia, Africa and Latin America.</i> 54 (12): 16595-16608
31.	S.MD. Basid Ali1, Noren Singh Konjengbam , Farzana Ahmad, Shelly Sanasam, Radheshyam Kumawat	2024	Ascertaining Lethal Dose 50 (LD50) and Simultaneous Effect of Ethyl Methane Sulphonate (EMS) and Sodium Azide (SA) On Seedling Characters in Mungbean Genotypes ‘Pusa 1031’ and ‘Pusa 1431’	<i>Legume Research- An International Journal.</i> Pp 1-7. DOI: 10.18805/LR-5255
32.	Pheirim Reginah, Konjengbam Noren Singh , T Rajesh, Mahanta Mayurakshee, Samuthirapandi S1,	2024	Genetic variability and association study of SSR markers for yield and powdery mildew disease in pea (<i>Pisum sativum</i>)	<i>Indian Journal of Agricultural Sciences.</i> 94 (3): 258–262

	Andrean Allwin Lyngdoh and Themmeichon Chamroy			
33.	Mayurakshee Mahanta, Noren Singh Konjengbam , Reginah Pheirim and Andrean Allwin Lyngdoh	2024	Screening lentil (<i>Lens culinaris</i> Medik.) RIL population for high yield and aluminium toxicity tolerance under acidic field and hydroponic conditions	<i>Indian Journal of Agricultural Sciences</i> 94(6): 589-594
34.	Noren Singh Konjengbam , Dharmendra Singh, Anima Mahato, Vikram Jeet Singh, Jyoti Taunk	2025	Mapping QTLs for aluminium and phosphorus tolerances at seedling and reproductive stages in lentil (<i>Lens culinaris</i> Medikus)	Plant Stress 2025: 100709 DOI: https://doi.org/10.1016/j.stress.2024.100709
35	Kavya Kadiyala, Noren Singh Konjengbam, James M, Mayank Rai, Wricha Tyagi, Ajay Kumar Mahato	2025	Molecular signatures that translate across omics layers and crops under high aluminium and low phosphorus stress facilitate the identification of reliable molecular targets for genotyping in lentil	Functional & Integrative Genomics (2025) 25:52 https://doi.org/10.1007/s10142-025-01542-z
36	S. MD. Basid Ali, Khangembam Surendra Singh and Noren Singh Konjengbam	2025	MGIDI-based selection and stability analysis of mungbean (<i>Vigna radiata</i> L. Wilczek) mutants under acidic soils using AMMI and GGE models	Indian J. Genet. Plant Breed., (2025); 85(4): 629-636; https://doi.org/10.31742/ISGPB.85.4.11

B. Review Articles

1. Dharmendra Singh, Priya Chaudhary, Jyoti Taunk, Chandan Kumar Singh, Deepti Singh, Ram Sewak Singh Tomar, Muraleedhar Aski, Noren Singh Konjengbam, Ranjeet Sharan Taje, Sanjay Singh, Rakesh Singh Sengar, Rajendra Kumar Yadav and Madan Pal, 2021. *Fab Advances in Fabaceae for Abiotic Stress Resilience: From Omics to Artificial Intelligence. Int. J. Mol. Sci.* 2021, 22, 10535. <https://doi.org/10.3390/ijms221910535> [NAAS: 11.60]
2. Reginah Pheirim, Noren Singh Konjengbam and Mayurakshee Mahanta, 2021. Molecular Markers for Powdery Mildew in Pea (*Pisum sativum* L.): A Review. *Legume Research. DOI: 10.18805/LR-4740* [NAAS: 6.80]

3. Mayurakshee Mahanta, Noren Singh Konjengbam, Andrean Allwin Lyngdoh and Reginah Pheirim, 2022. Aluminium Stress Tolerance in Legumes under Acidic Soils: Mechanisms and Methods – A Review. *Biological Forum – An International Journal*, 14(1): 1538-1548. [NAAS: 4.96]
4. Radheshyam Kumawat, **Konjengbam Noren Singh**, S. MD Basid Ali, Aditi Singh and Riya. 2023. Role of reverse genetic approaches TILLING and EcoTILLING in crop improvement: A review. *Indian Journal of Hill Farming*. 36 (02): 08-14. [DOI: 10.56678/iahf-2023.36.02.2](https://doi.org/10.56678/iahf-2023.36.02.2) [NAAS: 4.67]
5. Koffi Pacome Kouame, Raj Kishan Agrahari, Noren Singh Konjengbam, Hiroyuki Koyama and Yuriko Kobayashi. 2024. Ability of Nutrient Management and Molecular Physiology Advancements to Overcome Abiotic Stress: A Study on Sub-Saharan African Crops. Pp 2-21. <https://doi.org/10.3390/agriculture14020285> [NAAS: 9.60]

C. In Research Newsletter

1.	Aspana Sinha, Yarielyn Saio, Dipali Majumder, Noren S.K., N.T.Meetei, A. Pattanayak and Mayank Rai	2010	Studying molecular and pathotype diversity of blast fungus in North Eastern Hill-Strategy and approach	CAU <i>Res.Newslett.</i> 1(1):11-12	Referred/ISSN 2319-3042
2.	Samuel Jeberson, J. Lhungdim, Noren S.K. and Birla Singh	2010	<i>Uttara</i> : a promising urdbean variety for Manipur	CAU <i>Res.Newslett.</i> 1(2):6-7	Referred/ISSN 2319-3042
3.	N.T. Meetei, Noren S.K. and V.K. Khanna	2012	<i>In vitro</i> micropropagation of <i>Zingiber officinale</i> cv. Nadia	CAU <i>Res.Newslett.</i> 3(1):6-7	Referred/ISSN 2319-3042
4.	M. Rohinikumar Singh, K. Noren Singh, Ph. Ranjit Sharma, S.N. Puri, Th. Renuka Devi and Pramesh kh.	2012	CAU released two rice (<i>Oryza sativa</i> L.ssp. <i>indica</i>) varieties viz., CAU-R3 for early as well as late sown conditions and as a contingency crop and CAU-R4 for low lying semi-deep water ecosystem known as <i>Patlou</i> in Manipur	CAU <i>Res.Newslett.</i> 3(1):29-32	Referred/ISSN 2319-3042
5.	Chulet Handerson, Noren S.K., Tyagi Wricha, Meetei N.T., Khanna V.K. and A. Pattanayak	2012	Assessment of genetic diversity of pea (<i>Pisum sativum</i> L.) using molecular markers	CAU <i>Res.Newslett.</i> 3(2):31-32	Referred/ISSN 2319-3042
6.	Noren S.K., J. N. Reddy, Md. Anwar Hussain, W. Hemander Singh and Jitendra Kumar	2015	Molecular screening of six locally adapted popular rice cultivars of North East India for presence of bacterial leaf blight(BLB) resistant genes Xa5, Xa13 and Xa21	CAU <i>Res.Newslett.</i> 6(1):8-9	Referred/ISSN 2319-3042

12. Courses Taught: GPB 502, GPB 601, GPB 516, GPB 609

13. Student Guidance: (a). 17 M.Sc. (Agri.) [16 GPB + 1MBB] and (b). 4 PhD in GPB Guided as Major Advisor

14. Workshops/Training/Conferences Organized:

1. One Technical Workshops entitled, “**Rice Technical Workshop on “Location Specific Advances in Rice Production Technology for NEH Region”**” held on 21st January, 2013 organized by Directorate of Research, CAU, Imphal
2. One ICAR Sponsored Winter School entitled, “**Advances in Cutting-Edge Allele Mining and Bioinformatics Tools and techniques for Skill Development in Efficient and Tailored Crop Improvement** (24th January to 13th February, 2026)
3. One National Conference entitled, “**National Conference on Enhancing Agricultural Growth with Special Reference to North East India: Synergizing Industry and Scientific Innovations for Demand-driven Crop Improvement EAG-2025** (16-17th January, 2025)

15. Google Scholar / ORCID / ResearchGate / Scopus ID:

Noren Singh K - Google Scholar <https://share.google/KrvrgCqtD08Xd2uAX>

ORCID ID: <https://orcid.org/0000-0002-7474-186X>

ResearchGate: <https://www.researchgate.net/profile/Noren-Konjengbam>

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