# FACULTY PROFILE FORMAT

1. **Full Name:** Dr. Devyani Sen
2. **Designation:** Professor
3. **Department / School:** School of Crop Improvement
4. **Official Email id:** devyani.sen@gmail.com
5. **Profile Photo:**
6. **Areas of Specialization:** Genetics and Plant Breeding
7. **Research Interests:** Maize genetics and breeding; disease resistance; utilization of landraces and genetic resources for crop improvement.
8. **Highest Educational Qualifications:**

| Degree | Subject | University |
|---|---|---|
| PhD (Agriculture) | Genetics and Plant breeding | Institute of Agricultural Sciences, Banaras Hindu University |

9. **Professional Experience:**

| Position | Organization | Duration |
|---|---|---|
| Professor | Central Agricultural University (Imphal) | 04.11.2024 till date |
| Associate Professor | Central Agricultural University (Imphal) | 04.11.2021-03.11.2024 |
| Assistant Professor | Central Agricultural University (Imphal) | 03.11.2009-03.11.2021 |

10. **Research Projects:**

| Title | Funding Agency | Budget | Duration | Status |
|---|---|---|---|---|
| Screening for *Turcicum* blight resistance in indigenous non-elite lines of maize in North East India. | Department of Biotechnology, New Delhi | 48.54 Lakhs | 3 years | Completed |
| Mapping and inheritance studies for Northern Corn Leaf Blight resistance in maize from landraces of NEHR, India | Department of Biotechnology, New Delhi | 54.69 Lakhs | 3 years | Completed |

11. **Selected Publications:**

- M Sanjenbam, **Devyani Sen***, W Tyagi, R Chand (2018). Phenotypic Diversity Analysis and Screening for Northern Corn Leaf Blight Resistance in Maize (Zea mays L.) Landraces Grown in North Eastern Hill Region of India. *Indian Journal of Plant Genetic Resources*, 31 (3), 286-294. Article https://doi.org/10.5958/0976- 1926.2018.00033.5

- KL Naveenkumar, **Devyani Sen***, S Vashum, M Sanjenbam (2020). Genetic characterization and divergence studies of maize (*Zea mays* L.) lines developed from landraces indigenous to North Eastern Hill Region (NEHR) of India. *Plant Genetic Resources: Characterization and Utilization*, 18 (4), 231-242 https://doi.org/10.1017/S1479262120000246
- W Tyagi, JS Yumnam, **Devyani Sen**, M Rai (2020). Root transcriptome reveals efficient cell signaling and energy conservation key to aluminum toxicity tolerance in acidic soil adapted rice genotype. *Scientific Reports*, 10 (1), 1-14 https://doi.org/10.1038/s41598-020-61305-7
- Baruah S, Bharti T, Rajasekhar D, Tatiparthi H, Lyngdoh Nongbri E, **Sen Devyani***. Genetic characterization and evaluation of pigmented maize (Zea mays L.) landraces of the North East Hill Region of India-an established centre of maize diversity. Plant Genetic Resources: Characterization and Utilization. Published online 2024:1-11. https://doi.org/10.1017/S1479262124000182
- Rajasekhar D, KL N, Kalita S, Tatiparthi H, Rai M, Sen Devyani *****. Heterotic grouping of maize (Zea mays L.) inbreds derived from diverse indigenous landraces of the Northeast Hill Region of India(2025). Plant Genetic Resources: Characterization and Utilization. Published online 2025:1-10. https://doi:10.1017/S1479262124000704
- Kar, Priyajoy, Ph Romen Sharma, Shankar Lal Jat, Sapna Nigam, Srabani Debnath, Zahoor Ahmed Dar, D. Sravani, **Devyani Sen**, Nabajyoti Bhuyan, and Sujay Rakshit. "Tracking the emergence and usage of farmer led innovations (FLIs) in maize ecosystem: A pan India exploration." *Indian Journal of Traditional Knowledge (IJTK)* 24, no. 2 (2025): 177-184. DOI:10.56042/ijtk.v24i2.17209

12. **Courses Taught:** Principles of Genetics GPB 501 (2+1), Fundamentals of Quantitative Genetics GPB 503 (2+1), advances in Biometrical Genetics GPB 602 (2+1)
13. **Student Guidance:**

    b. M.Sc. Guided:21

    Ph.D. Guided:3

14. **Workshops / Training / Conferences Organized:**

- National Conference "Enhancing Agricultural Growth with Special Reference to North East India: Synergizing Industry and Scientific Innovations for Demand-Driven Crop Improvement" (EAG-2025) on 16th& 17th January, 2025 at CPGSAS, CAU(Imphal), Umiam, Meghalaya. (Co-organizing Secretary)
- ICAR sponsored 10 days training programme on "Molecular approaches for rice improvement" from 19th to 28th Sept, 2013 at College of Post Graduate Studies, Umiam, CAU, Imphal. (Academic Staff Member)
- ICAR Sponsored 21-days Winter School on "Advances in Cutting-Edge Allele Mining and Bioinformatics Tools and techniques for Skill Development in Efficient and Tailored Crop Improvement" at CPGSAS, Umiam, from 24th January to 13th February, 2026.(Course Coordinator)

15. **Google Scholar / ORCID / ResearchGate / Scopus ID:** https://orcid.org/0000-0003-1840-5156