

College of Post Graduate Studies in Agricultural Sciences

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FACULTY PROFILE

Dr. Devyani Sen

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Assistant Professor

School of Crop Improvement



PhD Genetics and Plant Breeding, Banaras Hindu University, Varanasi -221005, Uttar Pradesh

Specialization : Plant Breeding (Maize)

Teaching / Research Experience : 13 Years

(A) PUBLICATIONS :-

Full length papers:

- 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
- R Chand, D Sen, KD Prasad, AK Singh, BM Bashyal, LC Prasad, AK Joshi (2008). Screening for disease resistance in barley cultivars against *Bipolaris sorokiniana* using callus culture method. (2008). Indian Journal of Experimental Biology (46), 249-253
- BM Bashyal, R Chand, C Kushwaha, D Sen, LC Prasad, AK Joshi (2010). Association of melanin content with conidiogenesis in *Bipolaris sorokiniana* of barley (*Hordeum vulgare* L.). World Journal of Microbiology and Biotechnology 26 (2), 309-316
- Devyani Sen, C Appunu, RK Singh (2008). Regulation of urease in *Bradyrhizobium* colonizing green gram (*Vigna radiata* (L.) Wilczek) Indian Journal of Experimental Biology (46), 249-253
- C Appunu, D Sen, MK Singh, B Dhar (2008). Variation in symbiotic performance of *Bradyrhizobium japonicum* strains and soybean cultivars under field conditions. Journal of Central European Agriculture 9 (1), 169-174

Extended Abstract:

- Shimreiso Vashum, Naveen Kumar, and Devyani Sen* (2018) Characterization of full sib maize (*Zea mays* L.) families developed from landraces of North East Hill Region (NEHR) of India for *Turcicum* blight resistance. International Symposium on Biodiversity and Biobanking, 27th-29th January, 2018 IIT Guwahati. Biodiverse Proceedings 2018, pp-77-78
- Naveen Kumar K. L., Baltachina Momin, and Devyani Sen* (2018) Phenotypic screening at seedling stage for Aluminium toxicity and water logging tolerance in early generation full-sib maize (*Zea mays* L.) families. Biodiverse Proceedings 2018, pp 75-76

(B) RESEARCH PROJECTS :-

- Mapping and inheritance studies for Northern Corn Leaf Blight resistance in maize (*Zea mays* L.) population generated from landraces of North East Hill Region (NEHR) of India
Funding Agency: DBT
Funding (in lakhs): 54.6 [ONGOING]
- Screening for *Turcicum* blight resistance in indigenous non elite lines of maize in North East India.
Funding Agency: DBT
Funding (in lakhs): 48.54 [COMPLETED (2010 – 2013)]

(C) CONFERENCES / SEMINARS / WORKSHOPS ATTENDED / CONDUCTED / PARTICIPATED IN :-**Workshop/Training:**

- 62nd Annual Maize Workshop-2019, AICRP on Maize, 5th to 7th April, 2019, Assam Agricultural University, Jorhat
- Maize germplasm Field day cum Training on AICRP automation 1st -2nd March 2019 Winter Nursery Centre IIMR, Hyderabad
- National workshop on Current Trends on Bioinformatics in Agriculture, 15th -17th February, 2016, NAARM, Hyderabad

Trainings:

- Impact of Genomics in Crop Improvement - Perceived and Achieved, 20th January to 9th February 2011, Centre for Plant Breeding and Genetics, Tamil Nadu Agricultural University, Coimbatore. [21 days]
- Changing climatic conditions: Issues and Breeding strategies for Abiotic Stress Tolerance in Plants, 11th February to 1st March, 2013. College of Agriculture, G.B. Pant University of Agric. & Tech., Pantnagar [21 days]

Conferences:

- Naveenkumar K.L, Shimreiso Vashum and Devyani Sen (2018). Genetic divergence studies among maize inbred lines of North East Hill Region (NEHR) of India based on SSR markers. 13th Asian Maize Conference and Expert Consultation on Maize for Food, Feed, Nutrition and Environmental Security. p-79. 8th -10th October, 2018 Ludhiana, Punjab.
- Vashum S, Kumar N and Sen D (2018) Characterization of full sib maize (*Zea mays* L.) families developed from landraces of North East Hill Region (NEHR) of India for *Turcicum* blight resistance. In proceedings of International Symposium on Biodiversity and Biobanking, Biodiverse 2018 (ABSTRACT CODE- PP-FAB006; Theme: Food and Agro-biodiversity) pp-123, 27th-29th January, 2018 IIT Guwahati.
- Kumar N, Momin B and Sen D (2018) Phenotypic screening at seedling stage for Aluminium toxicity and water logging tolerance in early generation full-sib maize (*Zea mays* L.) families. In proceedings of International Symposium on Biodiversity and Biobanking, Biodiverse 2018 (ABSTRACT Code: PP-FAB005; Theme: Food and Agro-biodiversity) pp-122-123, 27th-29th January, 2018 IIT Guwahati.
- Mariyappan SB and Sen D (2019). Selection for hard endosperm, tryptophan content and yield contributing traits in F_{3:4} QPM families. Indian Plant Science Congress 2019. p-35. 23rd -25th January, 2019, SRM IST, Chennai.