

## FRONTIER LECTURE SERIES

### SERIES 3-

#### Speaker: Dr. Sneh Lata Singla Pareek



**Invitation**

**UNIVERSITY OF CALICUT**  
**DEPARTMENT OF BOTANY**

**FRONTIER LECTURE**

*Speaker*



**Dr. Sneh Lata Singla Pareek**  
Group Leader, Plant Stress Biology, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India

*Topic*

**Feed the future: designing high yielding, multiple stress tolerance in rice**

Date : 05-09-2019  
Venue : Seminar Hall,  
Department of Botany  
Time : 11.00 a.m.

**About the Speaker**

Dr. Sneh Lata Singla Pareek is currently Group Leader at International Centre for Genetic Engineering and Biotechnology, New Delhi, India. She completed her B.Sc. (Hons) (1989), M.Sc. (1991) and PhD (1997) from University of Delhi. In 1998, she was Postdoc Fellow at Dept. of Biology, University of North Carolina, NC, USA. Thereafter, in 1999, she joined as Research Scientist at Department of Genetics, University of Delhi, South Campus, New Delhi. Since 2001, Dr. Sneh Lata Pareek has been Staff Research Scientist, Plant Molecular Biology at International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India. In 2005, Dr. Sneh Lata Pareek joined at Cornell University, Ithaca, NY, USA as Visiting Scientist. She has many awards to her credit namely Innovative Young Biotechnologist, DBT, Ministry of Science and Technology, Government of India 2006; Elected Fellow of the National Academy of Sciences (FNASc, NASI) 2015 and many more. Her main research focus is on understanding the basic responses of plants towards abiotic stresses such as salinity, drought and high temperature. She has developed various novel strategies to combat these stresses and thus has generated various products with improved tolerance to abiotic stresses, in addition to improved nutrition and high yield. She has coordinated a Centre of Excellence, DBT program "Translational program in agriculture biotechnology: developing transgenic rice for salinity/drought stress tolerance" along with several bi-national research programs and industry supported programs. Her lab has fetched international recognition, where she has developed international collaboration for research with various Universities, such as UC Davis, Washington University, USA; University of Melbourne, Australia; University of Helsinki, Finland; Utrecht University, Netherlands; University of Dhaka, Bangladesh; Bangladesh Rice Research Institute, Bangladesh and Koltsov Institute of Development Biology, Russia. She has made outstanding contribution in establishing unequivocally the role of glyoxalase pathway, including many novel members, in plant stress physiology. She has also assigned functions to many hypothetical proteins in stress responses and has developed marker free transgenic rice plants, which can grow and yield high in saline and drylands. She has published 120 Research Publications in well reputed international journals, 2 Books and 20 Book Chapters. She has 2 patents in her research area. She has achieved total Citations: 4429 and H-index: 36.

As a part of Frontier lecture series, Department of Botany, University of Calicut conducted a one-day National Seminar on the topic ***“Feed the future: designing high yielding, multiple stress tolerance in rice”*** on 05<sup>th</sup> November 2019. The seminar was led by **Dr. Sneh Lata Singla Pareek**. Dr. Sneh Lata Singla Pareek is serving as the group leader, Plant stress biology, ICGEB, New Delhi, India.

The speaker pointed the significance of designing high yielding, multiple stress tolerance in rice in order to feed the increasing world populace. She also mentioned the importance of marker free genomic traits and their importance in identification and isolation of stress related genes in plants. A total of 85 students and faculties from various institutes actively participated in this event.

