

# Plant Genetics and Genomics Conference 2020

January 23 – 24, 2020

Venue: Dr. T. P. Ganesan Auditorium, Mini Hall 2

SRM IST, Kattankulathur, Tamil Nadu 603 203

## PROGRAM

Day 1: 23.01.2020, Thursday

Registration & Inaugural Function	
8.30 - 10.00 AM	Registration & Putting up the Posters
10.00 - 11.00 AM	Inaugural Function
Refreshment (11.00 - 11.30 AM)	
SESSION 1	
Chair: Dr. Ramasamy Perumal, Kansas State University, USA	
11.30 - 12.00 PM (Invited Talk)	ADAPTING GRAIN SORGHUM TO EXTREME TEMPERATURES <b>Dr. S.V. Krishna Jagadish</b> , Kansas State University, USA
12.00 – 12.30 PM (Invited Talk)	DEVELOPMENT OF SORGHUM GENOTYPES FOR LIGNOCELLULOSIC BIOFUEL PRODUCTION THROUGH MARKER-ASSISTED INTROGRESSION OF BROWN MIDRIB GENES <b>Dr. P. Rajendrakumar</b> , Indian Institute of Millets Research, Hyderabad, Telangana
12.30 – 12.40 PM (Oral ppt 1)	Genome wide association mapping of epi-cuticular wax genes in <i>Sorghum bicolor</i> <b>Dr. Dinakaran Elango</b> , The Pennsylvania State University, USA
12.40 – 12.50 PM (Oral ppt 2)	Marker aided introgression of shoot fly resistance trait in Sorghum <b>Ankita A. Chakote</b> , Vasant Rao Naik College of Agri Biotech, Yavatmal, Maharashtra
12.50 – 1.00 PM (Oral ppt 3)	<i>De novo</i> transcriptome assembly of <i>Panicum sumatrense</i> : A crop for future food security <b>Seema Pradhan</b> , Institute of Life Sciences, Bhubaneswar, Odisha
Lunch Break (1.00 – 2.00 PM)	
Poster Session (2.00 – 3.30 PM)	
Refreshment (3.30 – 4.00 PM)	
SESSION 2	
Chair: Dr. M. Raveendran, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu	
4.00 - 4.30 PM (Invited Talk)	RISE OF HIGHLY ACCURATE LONG READS: SMRT SEQUENCING TECHNOLOGY FOR PLANT GENOMES <b>Dr. Zuwei Qian</b> , PacBio, USA
4.30 - 5.00 PM (Invited Talk)	INVESTIGATING THE PHENOTYPE AND GENOTYPE FOR NITROGEN USE EFFICIENCY IN RICE <b>Dr. N. Raghuram</b> , Guru Gobind Singh Indraprastha University, New Delhi
5.00 - 5.10 PM (Oral ppt 4)	Use of retrotransposon markers to characterize cultivars and crop wild relatives of <i>Musa</i> spp. <b>Shivani</b> , National Bureau of Plant Genetic Resources, New Delhi.
5.10 - 5.20 PM (Oral ppt 5)	Uncovering of QTLs governing grain number per panicle employing Next Generation Sequencing based QTL-seq approach in rice ( <i>Oryza sativa</i> L.) <b>Reddy Yamini Bommisetty</b> , Acharya NG Ranga Agril Univ., Tirupati, Andhra Pradesh
5.20 - 5.30 PM (Oral ppt 6)	Towards developing rice genotypes adapted to warming climate <b>Bharathi A</b> , Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu

## Day 2: 24.01.2020, Friday

### SESSION 3

**Chair: Dr. S.V. Krishna Jagadish, Kansas State University, USA**

9.00 - 9.30 AM (Invited Talk)	GENOMIC ERA - SHIFT FROM LABORATORY MODEL PLANT SYSTEMS TO NON-MODEL PLANTS <b>Dr. R. K. Sharma</b> , Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh
9.30 - 10.00 AM (Invited Talk)	TRANSCRIPTOMICS-ENABLED DISCOVERY OF BIOSYNTHETIC PATHWAYS FOR MAJOR PHYTOPHARMACEUTICALS IN MEDICINAL HERBS <b>Dr. R. S. Chauhan</b> , Bennett University, Greater Noida, Uttar Pradesh
10.00 - 10.30 AM (Invited Talk)	MOBILE RNAs PLAY AN ACTIVATOR REPRESSOR ROLE IN GROWTH AND TUBER YIELD IN POTATO <b>Dr. Anjan K. Banerjee</b> , Indian Institutes of Science Education and Research, Pune, Maharashtra

#### Refreshment (10.30 - 11.00 AM)

#### Panel Discussion (11.00 - 12.00 PM)

**Chair: Dr. K. Ramasamy, SRM IST, Kattankulathur, Tamil Nadu**

Theme	<b>Opportunities and Challenges in Plant Science in the Modern Genomics Era</b>
Panel Member	<b>Research and Development:</b> Dr. V B Reddy, Chief Scientific Officer, AgriGenome, Kochin, Kerala
Panel Member	<b>Food Industry:</b> Shri. P. Muthumaran, Director, FSSAI, Government of India
Panel Member	<b>Seed Industry:</b> Dr. Vilas Parkhi, Mahyco Seeds, Mumbai
Panel Member	<b>Artificial Intelligence in Agriculture:</b> 3G IRPS, IIT Madras Research Park

#### Special Session on Biodiversity (12.00 – 1.00 PM)

12.00 - 1.00 PM	BIOLOGICAL DIVERSITY ACT AND ITS RELEVANCE TO PLANT SCIENCE RESEARCH <b>Dr. D. Narasimhan</b> , Member, Access and Benefit Sharing Committee, National Biodiversity Authority.
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#### Lunch Break (1.00 – 2.00 PM)

### SESSION 4

**Chair: Dr. Dr. R. S. Chauhan, Bennett University, Greater Noida, Uttar Pradesh**

2.00 - 2.30 PM (Invited Talk)	CRISPR/CAS9 MEDIATED GENOME EDITING FOR TRAIT ALTERATION IN PLANTS <b>Dr. Boney Kuriakose</b> , AgriGenome Labs Pvt Ltd, Kochin, Kerala
2.30 - 3.00 PM (Invited Talk)	TRANSLATING THE POTENTIAL OF MOLECULAR BREEDING IN RICE IMPROVEMENT <b>Dr. Gopala Krishnan</b> , Indian Agricultural Research Institute, New Delhi
3.00 - 3.10 PM (Oral ppt 7)	Leaf microhair transcriptome and cell biological assessment of rhizomatous tissues reveal mechanisms of salinity adaptation responses of halophytic wild rice, <i>Oryza coarctata</i> <b>Raja Rajakani</b> , M.S. Swaminathan Research Foundation, Chennai, Tamil Nadu
3.10 - 3.20 PM (Oral ppt 8)	Characterization of a hyperactive mutant Oat Phytochrome A in transgenic Zoysiagrass <b>Dr. Markkandan Ganesan</b> , Presidency University, Kolkata, West Bengal
3.20 - 3.30 PM (Oral ppt 9)	Integration and expression of a Na <sup>+</sup> -dependent high affinity bicarbonate transporter, SbtA in <i>Nicotiana</i> chloroplasts <b>Dr. Sandhya Mehrotra</b> , BITS Pilani, KK Birla Goa Campus, Goa

#### Refreshment (3.30 - 4.00 PM)

#### Concluding Session & Presentation of Awards (4.00 - 4.30 PM)