



Workshop on Genomic Approaches for Bacterial Blight Management in Commercial Crops, CUTM, PKD

Dt: 03.082020

Plant diseases cause huge losses to the farmers and are a major concern for the food and nutritional security across the globe. Among the major group of plant pathogens, bacterial diseases are a major threat to many commercial crops like rice, potato, cotton, citrus, apple, etc. The antibiotic based management of the bacterial diseases is not gaining much popularity due to increased risk of development of resistant strains in the pathogen population. Hence, the scientists are focusing on the development of disease resistant varieties in various crops. For the resistance breeding approach, the genomic tools play a pivotal role in fine tuning the process and making it more effective and considerably reducing the breeding time. With the advancements in biotechnology, many such new approaches have evolved and they have become the cutting edge technologies for the disease management especially in the bacterial and viral disease management and for understanding the host- pathogen interactions.

Looking into the importance of genomic approaches in disease management, a one day workshop was organized by Dept. Of Plant Pathology on 03/08/2020 with specific emphasis on the bacterial diseases. The workshop was inaugurated by Hon'ble VC CUTM. During the workshop eminent speakers from the field Plant bacteriology viz: Dr.Dinesh singh IARI, Dr.Y.S. Singh GB PANT University of Agriculture and technology had given key note addresses emphasizing the role of "Genomic Approaches for Bacterial Blight Management". The workshop was attended by 61 participants including B.Sc Ag students and faculties from MSSSoA CUTM.

The key takeaways from the workshop include:

- Improving host-plant immunity has been considered as one of the best choices available for achieving economical and sustainable management of bacterial disease in a durable manner
- Identification and utilization of new resistant genes/ alleles, tapping the genetic variability in diverse germplasm and generation novel variation in existing genes through gene-editing will be crucial for overcoming the threat posed by the bacterial pathogens.
- The evolving tools and techniques of plant molecular biology have been instrumental in getting vital insights into host-pathogen interactions and developing strategies for broad-spectrum, durable resistance.
- Modern omics approaches like genomics, transcriptomics, proteomics, metabolomics, interactomics, etc. can be helpful in identification of the genes and their products, which are involved in pathogen perception by the host and also the response manifested by the host against the pathogen attack
- Genomic approaches can strongly contribute to shortening the duration of the breeding process and reduce the cost of selection.
- Different approaches, from markers to recent genomic and ‘post-genomic era’ technologies, will contribute to a better understanding of the complexity of host–pathogen interactions and genes, including those with small phenotypic effects and mechanisms that underlie resistance.
- An efficient combination of these approaches is herein proposed as the basis to develop a successful breeding strategy to obtain resistant crop varieties that yield higher in increasing disease scenarios.



Highly Resistant
Reaction (<1 cm)

Resistant
Reaction (1.1-3 cm)

Moderately Resistant
(3.1-5 cm)

Susceptible
Reaction (>5 cm)

Genomic approaches for Bacterial blight Management in commercial crops

Date: 03-08-2020

Resource person

Dr. Dinesh singh, IARI new Delhi

Dr. Yogendra Singh

G. V Pant university of agriculture and Technology



Centurion
UNIVERSITY

Organised by :

Centurion University of Technology and Management

Brochure of the one day workshop “Genomic Approaches for Bacterial Blight Management in Commercial Crops”

Participant List of One day workshop on **Genomic Approaches for Bacterial Blight Management in Commercial Crops**

Date: 3/8/2020

Venue: Seminar hall

S.NO.	NAME OF PARTICIPANTS
1	Panyam Sravanthi
2	Patnala Bala Mani Lakshmi Amrutha
3	Karimi Jagadeeswari
4	Vaddavalli Manideep
5	Pulletikurthi Anusha
6	Landa Iswarya
7	Gondesi Harika
8	Kasala Sai Preethi
9	Venkatapuram Nimishi
10	Pavuluri Sai Chowdary
11	Kuncham Venkat Kumar
12	Mula Siva Reddy
13	Killi Nikhita
14	Doddigarla Siddartha
15	Adapaka Sravanthi
16	Tummala Dimpu Vineeth
17	Chintada Anitha
18	Sondi Spandana
19	Edara Bhargavi
20	Gonna Srilakshmi
21	Tandrangi Sravani
22	Thallapudi Sai Sanjay

23	Piridi Divya	
24	Kanamarlapudi Rupa Tejaswi	
25	Pulagam Veera Reddy	
26	Bethireddy Nagasri Nikhil Reddy	
27	Racherla Grevanya	
28	Bolisetty Venkata Sudhakar	
29	Dr.B.Praveen	
30	Dr. Koustavaa Kumar Panda	

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Participant List of One day workshop on **Genomic Approaches for Bacterial Blight Management in Commercial Crops**

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147	Dr. Sabyasachi Dey	
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164	Chittaranjan Routray	
165	Suchismita Acharya	

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