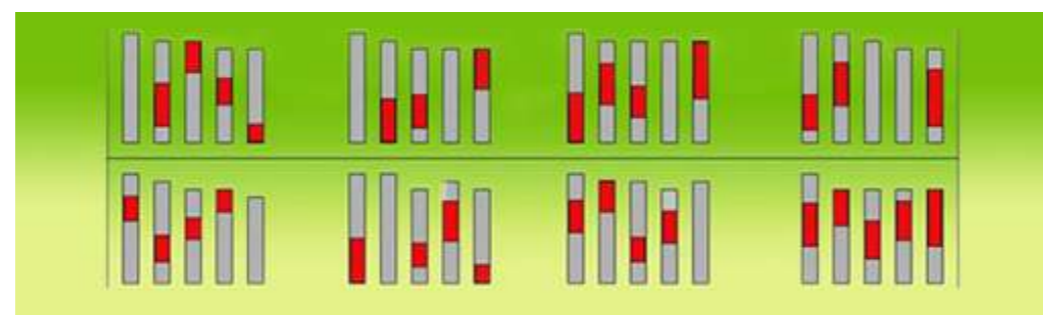
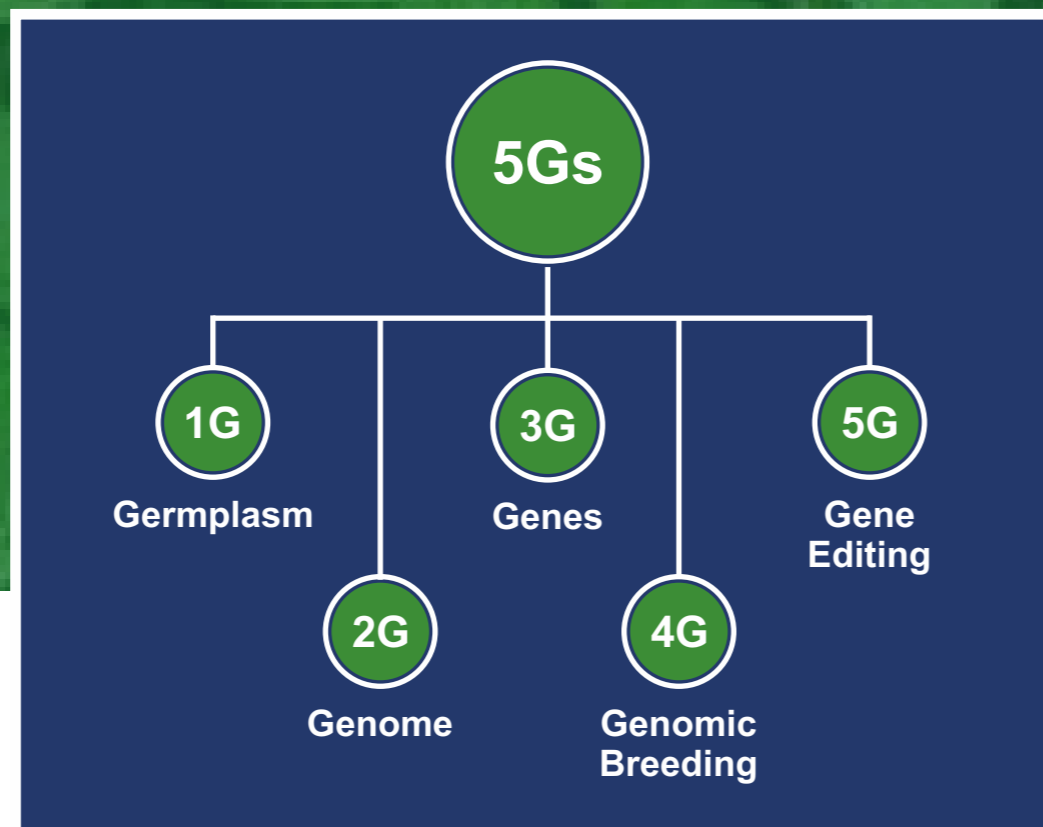
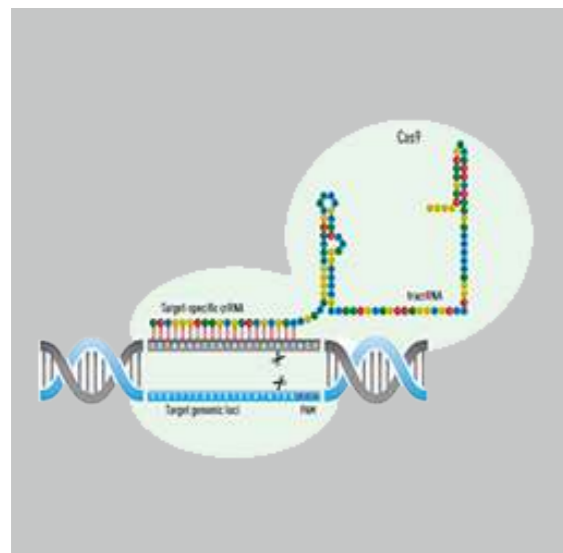


# PLANT BREEDING TODAY

## NEW TECHNIQUES, NEW SKILLS



The genomics revolution, which started in the 1990s, and included structural, functional and comparative genomics, greatly improved our understanding of the genetic makeup of organisms from gene to genome level.

Over the last twenty years, whole genome sequences of several crop species have become available, which has led to rapid evolution of genomics technologies and the associated bioinformatics tools.

This online course has been designed to provide information about some of these new technologies and their application in real time development of novel varieties. Through the speakers, representing agricultural universities, research institutes and private companies, we plan to expose young researchers to these forefront areas in molecular plant breeding, so that they may contribute to the field of translational genomics in future.

The course is designed for doctoral students, postdoctoral fellows and young researchers from industry and academia.

Duration:  
**10 online sessions**  
**1 hour each.**

Number of participants:  
**30**

Lectures commence  
from:  
**14th June 2021**

Lectures end on:  
**25th June 2021**

Last date of application:  
**30th May 2021**

To apply click the link: <https://forms.gle/QRWu2axCTp55PyRUA>

Selected participants will be informed by the **5th June 2021**, and they have to confirm their participation by the **7th June 2021**.

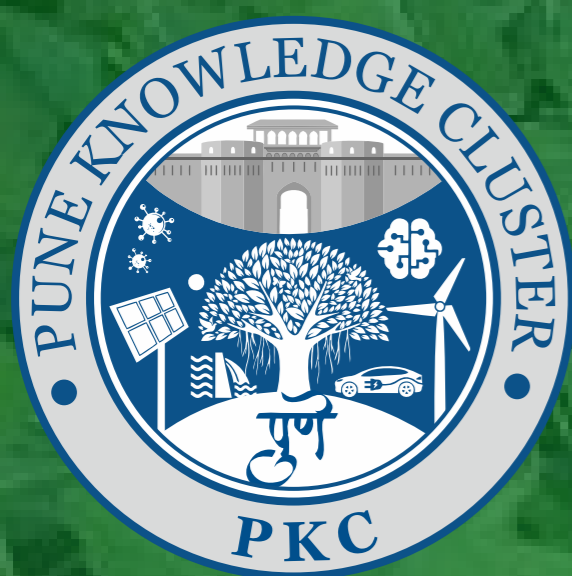
Course Coordinators  
**Prof. Sujata Bhargava**  
**Dr. Vidya Gupta**

This course of lectures is a part of the Capacity Building Programme of PKC. A number of such courses will be conducted for young researchers and professionals by PKC to expose them to the latest developments in science and technology. The lectures will be delivered by experts from the academia, R&D institutions and industry and will have elements of interactivity and hands-on sessions wherever possible. The courses will seek to expose participants to employment opportunities in the industry. Courses at the undergraduate and post-graduate levels will also be conducted to improve the skill sets and employability of the participants.



The Pune Knowledge Cluster (PKC) has been established by the Office of the Principal Scientific Advisor to the Government of India. The aim is to bring together academia, R&D institutions and the industry of Pune and its surrounding regions to address the challenging problems of the region through innovative means, using scientific knowledge and engaging highly skilled human resources.

[www.pkc.org.in](http://www.pkc.org.in)



# PLANT BREEDING TODAY

## NEW TECHNIQUES, NEW SKILLS

### COURSE DETAILS

Date	Topic	Presenter
14th June	Genetic diversity and its exploitation in breeding	Dr. N K Singh ICAR - National Institute of Plant Biotechnology New Delhi
15th June	Molecular approaches to crop improvement	Dr. Bharat Char Maharashtra Hybrid Seeds Company Pvt. Ltd. Dawalwadi, Maharashtra
16th June	Accelerating development of stress tolerant rice through genomics-assisted breeding	Dr. M. Raveendran Tamil Nadu Agricultural University Coimbatore, Tamil Nadu
17th June	Genome-wide technologies for crop improvement	Dr. Rajeev Varshney International Crop Research Centre for the Semi-arid Tropics Hyderabad, Telangana
18th June	Genome-wide association studies for soybean improvement	Dr. Ashish Srivastava Bhabha Atomic Research Centre Mumbai, Maharashtra
21st June	Development of climate change resilient lines of the elite, fine-grain type, rice variety Samba Mahsuri through molecular breeding	Dr. Raman Sundaram ICAR - Indian Institute of Rice Research Hyderabad, Telangana
22nd June	Use of functional markers in precision plant breeding	Dr. Narendra Kadoo CSIR - National Chemical Laboratory Pune, Maharashtra
23rd June	TILLING, a non-GM method to improve crops, an Industrial perspective	Dr. Manash Chatterjee BenchBio Pvt. Ltd. Vapi, Gujarat
24th June	Addressing hidden hunger: Modern plant breeding approaches in food fortification	Dr. Prashant Pyati Ajeet Seeds Pvt. Ltd. Chitegaon, Maharashtra
25th June	Gene editing and integrated approaches to discover novel traits in soybean improvement	Dr. Gunvant Patil Texas Tech University, Lubbock, USA

### OUR PRESENTERS



Dr. N K  
Singh



Dr. Bharat  
Char



Dr. M.  
Raveendran



Dr. Rajeev  
Varshney



Dr. Ashish  
Srivastava



Dr. Raman  
Sundaram



Dr. Narendra  
Kadoo



Dr. Manash  
Chatterjee



Dr. Prashant  
Pyati



Dr. Gunvant  
Patil

Course commences from:  
**14th June 2021**

Last date for application:  
**30th May 2021**

To Apply:  
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