

ICAR NBAIR organized a webinar #007 as part of Azadi Ka Amrut Mahotsav on 26.08.2021

भा. कृ. अनु. प. राष्ट्रीय कृषि कीट संसाधन व्यूरो

ICAR – National Bureau of Agricultural Insect Resources
Bengaluru

आजादीकाअमृत महोत्सव
AZADI KA AMRUT MAHOTSAV
Webinar on
'Genome editing for biotic stress management'
26 August 2021 at 15.30 – 17.00 hrs.

Dr. M. Nagesh
Director in charge
ICAR - NBAIR

Speaker
Dr. T. Makeshkumar
Principal Scientist
ICAR - CTCRI

Dr. Kesavan Subaharan
Prog. Coordinator
ICAR - NBAIR

Zoom Link:
<https://us02web.zoom.us/j/84390952742?pwd=YU5hNU9hWESNRUZlMk1pZkpwZDZlZde09>
Meeting ID : 843 9095 2742
Passcode : 458047

ICAR – NBAIR webinar series # 007

Link limit: 100

Number of participants recorded: 100

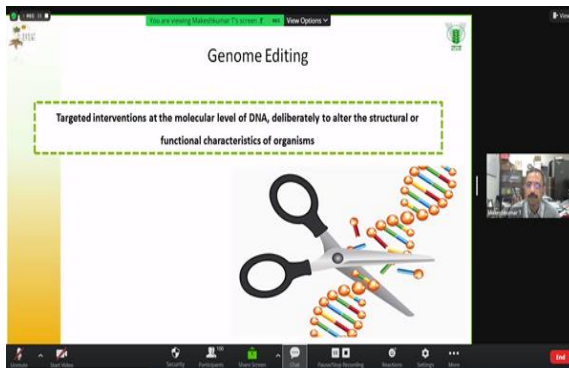
Organizers: Dr Kesavan Subaharan and Dr. Amala Udayakumar

Modulator: Dr. M. Pratheepa

ICAR NBAIR organized a webinar #007 as part of Azadi Ka Amrut Mahotsav on 26.08.2021. One hundred participants from ICAR institutes, AICRP (BC) and State Agricultural Universities attended the webinar. Among the participants were, Dr T.P. Rajendran, Former ADG (PP&B), Dr Abraham Verghese Former Director of ICAR–NBAIR, and Dr Sheela, Director, ICAR – CTCRI. Dr Kesavan Subaharan, Principal Scientist, ICAR –NBAIR welcomed the speaker and participants. In his introductory remarks, the chairman Dr. M. Nagesh, (Director Acting, ICAR-NBAIR), emphasized the role of genome editing in the development of resistance against pests and pathogens through gene knockdown mechanism. He lauded the selection of topic for the webinar as it would enable the participants to have information on the cutting-edge technologies that would help to develop novel pest management strategies.

The speaker, Dr. T. Makeshkumar, Principal Scientist, ICAR – Central Tuber Crops Research Institute (CTCRI), Thiruvananthapuram delivered a talk on ‘Genome editing for biotic stress management. In his talk, he discussed the basics of genome editing mechanisms. He elaborated upon the various genome editing tools with an emphasis on CRISPR -Cas9 application. The CRISPR mediated genome editing in crop plants to develop crop resistance to pathogens was discussed. The case studies on the success of employing genome editing in insect vector-like

mosquitoes and wasp management were discussed. Dr.A.Shylesha, HOD, GCU proposed vote of thanks. The possibilities of altering the volatile profile emitted from crop plants to affect a shift in the behaviour of insect pests and parasitoids were suggested by the speaker. The presentation was followed by a discussion on key issues like the impact of gene editing for pest management.



Video talk Link: <https://databases.nbaire.res.in/video-gallery/NBAIR-Webinar007.mp4>