

S.R.R. & C.V.R. Government Degree College (A)

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004

GUEST LECTURE - 23.11.2021 **(Role of Molecular Markers in Plant Breeding)**



DEPARTMENT OF BOTANY

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DEPARTMENT OF BOTANY

Date of Activity	23.11.2021
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department of Botany
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Guest Lecture
Title of the Activity	Role of Molecular Markers in Plant Breeding
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	Dr N. Krishna Asst Professor Hindu College, Guntur
No of students participated	62
Name of the Lecturers who planned & conducted the activity	Ms G.Swapna, Dr Ch. Srinivasa Reddy
Remarks	This Guest Lecture was very informative and beneficial to the students .

Department of Botany SRR & CVR Govt Degree College Organized Medicinal Plants Drive on 23.11.2022.

Motive of this program:

Providing Additional Knowledge and information to students on the role of Molecular Markers in Breeding Experiments.

Report:

The Department of Botany organized the Guest Lecture by Dr N. Krishna garu on the Role of Molecular Markers in Plant Breeding and Applications of Markers.

The Introduction of the Resource person is given by Dr .Ch. Srinivasa Reddy , Lecturer in Botany.

Principal Dr K.Bhagya Lakshmi garu gave the opening remarks and advised the students to develop research zeal by improving knowledge and practical skills . Madam explained the positive outcomes of such Guest Lectures and how the students can benefit from such Lectures



Ms G. Swapna , Department incharge and Lecturer in Botany pointed out the necessity of Research in areas of Advanced Biotechnology in India and the research Contributions towards the development of the country , the context of selecting the topic and its Significance



Resource Person Explained the Applications of Molecular markers in a very interesting and easily understandable manner . He showed the Videos and Pictures of the experiments on Markers . He took the examples of various crops in which the experiments of Molecular Markers were successful .

He also explained why sometimes Molecular Markers failed in certain crops . He tried to incorporate Research zeal in students by explaining the pathway of markers in breeding programs .

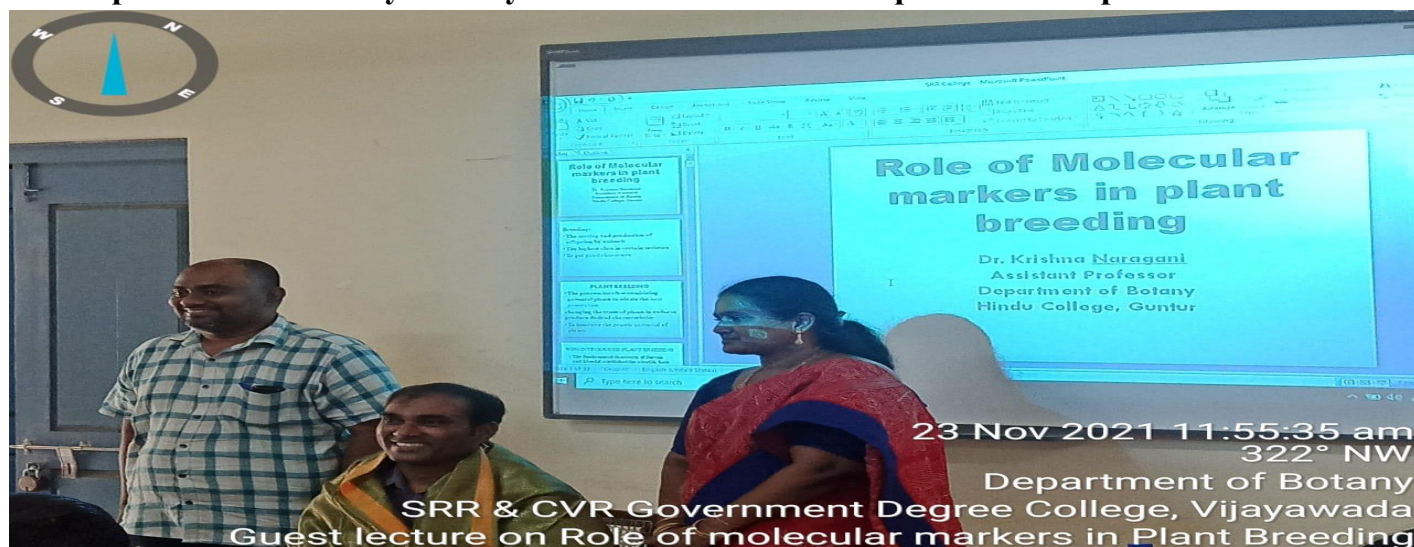
Resource Person explained about the numerous applications in plant breeding such as assessing the genetic variations within cultivars and germplasms. The most interesting application of molecular markers is marker-assisted selection (MAS). Suitable DNA markers should be polymorphic in the DNA level and can be expressed in all tissues, organs, and various developmental stages. Compared with traditional breeding programs, molecular markers can increase the efficiency and effectiveness of breeding programs.

Resource person Delivering the Lecture



Students expressed their doubts and got clarification on the working mechanism of markers .
Students participated in the Q & A Session after the Lecture with much enthusiasm .

The Department of Botany Faculty felicitated the Resource person and expressed Gratitude .



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VIJAYAWADA - 520 004



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(Autonomous)
Machavaram, VIJAYAWADA-520 004

Swapna
Swapna
I/C Dept of Botany
LECTURER IN CHARGE
Dept. of Botany
SRR & CVR GOVT. DEGREE COLLEGE
VIJAYAWADA-4, Krishna Dist.